

Addendum A: Linguistic data regarding Gen. 1:1-2:3 represented by a threedimensional array in Visual Basic 6

Option Explicit

Public Clause(1 To 108, 1 To 5, 1 To 6) As String

Sub Main()

Clause(1, 1, 1) = "Gen01v01a"

Clause(1, 1, 2) = "bre\$it"

Clause(1, 1, 3) = "in the beginning"

Clause(1, 1, 4) = "PP"

Clause(1, 1, 5) = "Adjunct"

Clause(1, 1, 6) = "Time"

Clause(1, 2, 1) = "-"

Clause(1, 2, 2) = "bara"

Clause(1, 2, 3) = "he created"

Clause(1, 2, 4) = "VP"

Clause(1, 2, 5) = "Main verb"

Clause(1, 2, 6) = "Action"

Clause(1, 3, 1) = "-"

Clause(1, 3, 2) = "elohim"

Clause(1, 3, 3) = "God"

Clause(1, 3, 4) = "NP"

Clause(1, 3, 5) = "Subject"

Clause(1, 3, 6) = "Agent"

Clause(1, 4, 1) = "-"

Clause(1, 4, 2) = "et ha\$amayim ve'et ha'arets"

Clause(1, 4, 3) = "the heaven and the earth"

Clause(1, 4, 4) = "NP"

Clause(1, 4, 5) = "Object"

Clause(1, 4, 6) = "Product"

Clause(2, 1, 1) = "Gen01v02a"

Clause(2, 1, 2) = "veha'arets"

Clause(2, 1, 3) = "and the earth"

Clause(2, 1, 4) = "NP"

Clause(2, 1, 5) = "Subject"

Clause(2, 1, 6) = "Zero"

Clause(2, 2, 1) = "-"

Clause(2, 2, 2) = "hayta"

Clause(2, 2, 3) = "was"

Clause(2, 2, 4) = "VP"

Clause(2, 2, 5) = "Copulative verb"

Clause(2, 2, 6) = "State"

Clause(2, 3, 1) = "-"

Clause(2, 3, 2) = "tohu vavohu"
Clause(2, 3, 3) = "an emptiness and void"
Clause(2, 3, 4) = "NP"
Clause(2, 3, 5) = "Copula-predicate"
Clause(2, 3, 6) = "Classification"

Clause(3, 1, 1) = "Gen01v02b"
Clause(3, 1, 2) = "wexo\$ex"
Clause(3, 1, 3) = "and darkness"
Clause(3, 1, 4) = "NP"
Clause(3, 1, 5) = "Subject"
Clause(3, 1, 6) = "Zero"
Clause(3, 2, 1) = "-"
Clause(3, 2, 2) = "al pney tehom"
Clause(3, 2, 3) = "on the surface of primeval ocean"
Clause(3, 2, 4) = "PP"
Clause(3, 2, 5) = "Copula-predicate"
Clause(3, 2, 6) = "Location"

Clause(4, 1, 1) = "Gen01v02c"
Clause(4, 1, 2) = "veruach elohim"
Clause(4, 1, 3) = "and the spirit of God"
Clause(4, 1, 4) = "NP"
Clause(4, 1, 5) = "Subject"
Clause(4, 1, 6) = "Positioner"
Clause(4, 2, 1) = "-"
Clause(4, 2, 2) = "meraxefet"
Clause(4, 2, 3) = "hovering"
Clause(4, 2, 4) = "AP"
Clause(4, 2, 5) = "Copula-predicate"
Clause(4, 2, 6) = "Position"
Clause(4, 3, 1) = "-"
Clause(4, 3, 2) = "al pney hamayim"
Clause(4, 3, 3) = "on the surface of the water"
Clause(4, 3, 4) = "PP"
Clause(4, 3, 5) = "Complement"
Clause(4, 3, 6) = "Location"

Clause(5, 1, 1) = "Gen01v03a"
Clause(5, 1, 2) = "vayomer"
Clause(5, 1, 3) = "And He said"
Clause(5, 1, 4) = "VP"
Clause(5, 1, 5) = "Main verb"
Clause(5, 1, 6) = "Action"
Clause(5, 2, 1) = "-"
Clause(5, 2, 2) = "elohim"
Clause(5, 2, 3) = "God"

Clause(5, 2, 4) = "NP"
Clause(5, 2, 5) = "Subject"
Clause(5, 2, 6) = "Agent"
Clause(5, 3, 1) = "-"
Clause(5, 3, 2) = "[yehi or]"
Clause(5, 3, 3) = "[Let there be light]"
Clause(5, 3, 4) = "[EC]"
Clause(5, 3, 5) = "Object clause"
Clause(5, 3, 6) = "Patient"

Clause(6, 1, 1) = "Gen01v03b"
Clause(6, 1, 2) = "yehi"
Clause(6, 1, 3) = "Let there be"
Clause(6, 1, 4) = "VP"
Clause(6, 1, 5) = "Copulative verb"
Clause(6, 1, 6) = "State"
Clause(6, 2, 1) = "-"
Clause(6, 2, 2) = "or"
Clause(6, 2, 3) = "light"
Clause(6, 2, 4) = "NP"
Clause(6, 2, 5) = "Subject"
Clause(6, 2, 6) = "Zero"

Clause(7, 1, 1) = "Gen01v03c"
Clause(7, 1, 2) = "vayehi"
Clause(7, 1, 3) = "And there was"
Clause(7, 1, 4) = "VP"
Clause(7, 1, 5) = "Copulative verb"
Clause(7, 1, 6) = "State"
Clause(7, 2, 1) = "-"
Clause(7, 2, 2) = "or"
Clause(7, 2, 3) = "light"
Clause(7, 2, 4) = "NP"
Clause(7, 2, 5) = "Subject"
Clause(7, 2, 6) = "Zero"

Clause(8, 1, 1) = "Gen01v04a"
Clause(8, 1, 2) = "vayar"
Clause(8, 1, 3) = "And he saw"
Clause(8, 1, 4) = "VP"
Clause(8, 1, 5) = "Main verb"
Clause(8, 1, 6) = "Process"
Clause(8, 2, 1) = "-"
Clause(8, 2, 2) = "elohim"
Clause(8, 2, 3) = "God"
Clause(8, 2, 4) = "NP"
Clause(8, 2, 5) = "Subject"

Clause(8, 2, 6) = "Processed"
Clause(8, 3, 1) = "Patient"
Clause(8, 3, 2) = "[et ha'or ki tov]"
Clause(8, 3, 3) = "[that the light was good]"
Clause(8, 3, 4) = "[EC]"
Clause(8, 3, 5) = "Object clause"
Clause(8, 3, 6) = "Patient"

Clause(9, 1, 1) = "Gen01v04b"
Clause(9, 1, 2) = "et ha'or"
Clause(9, 1, 3) = "the light"
Clause(9, 1, 4) = "NP"
Clause(9, 1, 5) = "Subject"
Clause(9, 1, 6) = "Zero"
Clause(9, 2, 1) = "-"
Clause(9, 2, 2) = "ki"
Clause(9, 2, 3) = "that"
Clause(9, 2, 4) = "ConjP"
Clause(9, 2, 5) = "Conj"
Clause(9, 2, 6) = "-"
Clause(9, 3, 1) = "-"
Clause(9, 3, 2) = "tov"
Clause(9, 3, 3) = "good"
Clause(9, 3, 4) = "AP"
Clause(9, 3, 5) = "Copula-predicate"
Clause(9, 3, 6) = "Quality"

Clause(10, 1, 1) = "Gen01v04c"
Clause(10, 1, 2) = "vayavdel"
Clause(10, 1, 3) = "and he separated"
Clause(10, 1, 4) = "VP"
Clause(10, 1, 5) = "Main verb"
Clause(10, 1, 6) = "Action"
Clause(10, 2, 1) = "-"
Clause(10, 2, 2) = "elohim"
Clause(10, 2, 3) = "God"
Clause(10, 2, 4) = "NP"
Clause(10, 2, 5) = "Subject"
Clause(10, 2, 6) = "Agent"
Clause(10, 3, 1) = "-"
Clause(10, 3, 2) = "ben ha'or"
Clause(10, 3, 3) = "between the light"
Clause(10, 3, 4) = "PP"
Clause(10, 3, 5) = "Complement"
Clause(10, 3, 6) = "Patient"
Clause(10, 4, 1) = "-"
Clause(10, 4, 2) = "uven haxo\$ex"

Clause(10, 4, 3) = "and between the darkness"
Clause(10, 4, 4) = "PP"
Clause(10, 4, 5) = "Complement"
Clause(10, 4, 6) = "Source"

Clause(11, 1, 1) = "Gen01v05a"
Clause(11, 1, 2) = "vayikra"
Clause(11, 1, 3) = "and he called"
Clause(11, 1, 4) = "VP"
Clause(11, 1, 5) = "Main verb"
Clause(11, 1, 6) = "Action"
Clause(11, 2, 1) = "-"
Clause(11, 2, 2) = "elohim"
Clause(11, 2, 3) = "God"
Clause(11, 2, 4) = "NP"
Clause(11, 2, 5) = "Subject"
Clause(11, 2, 6) = "Agent"
Clause(11, 3, 1) = "-"
Clause(11, 3, 2) = "la'or"
Clause(11, 3, 3) = "to the light"
Clause(11, 3, 4) = "PP"
Clause(11, 3, 5) = "IndObj"
Clause(11, 3, 6) = "Patient"
Clause(11, 4, 1) = "-"
Clause(11, 4, 2) = "yom"
Clause(11, 4, 3) = "day"
Clause(11, 4, 4) = "NP"
Clause(11, 4, 5) = "Complement"
Clause(11, 4, 6) = "Product"

Clause(12, 1, 1) = "Gen01v05b"
Clause(12, 1, 2) = "velaxo\$ex"
Clause(12, 1, 3) = "and to the darkness"
Clause(12, 1, 4) = "PP"
Clause(12, 1, 5) = "IndObj"
Clause(12, 1, 6) = "Patient"
Clause(12, 2, 1) = "-"
Clause(12, 2, 2) = "kara"
Clause(12, 2, 3) = "he called"
Clause(12, 2, 4) = "VP"
Clause(12, 2, 5) = "Main verb"
Clause(12, 2, 6) = "Action"
Clause(12, 3, 1) = "-"
Clause(12, 3, 2) = "layla"
Clause(12, 3, 3) = "night"
Clause(12, 3, 4) = "NP"
Clause(12, 3, 5) = "Complement"

Clause(12, 3, 6) = "Product"

Clause(13, 1, 1) = "Gen01v05c"
Clause(13, 1, 2) = "vayehi"
Clause(13, 1, 3) = "and it was"
Clause(13, 1, 4) = "VP"
Clause(13, 1, 5) = "Copulative verb"
Clause(13, 1, 6) = "State"
Clause(13, 2, 1) = "-"
Clause(13, 2, 2) = "erev"
Clause(13, 2, 3) = "evening"
Clause(13, 2, 4) = "NP"
Clause(13, 2, 5) = "Subject"
Clause(13, 2, 6) = "Zero"

Clause(14, 1, 1) = "Gen01v05d"
Clause(14, 1, 2) = "vayehi"
Clause(14, 1, 3) = "and it was"
Clause(14, 1, 4) = "VP"
Clause(14, 1, 5) = "Copulative verb"
Clause(14, 1, 6) = "State"
Clause(14, 2, 1) = "-"
Clause(14, 2, 2) = "voker"
Clause(14, 2, 3) = "morning"
Clause(14, 2, 4) = "NP"
Clause(14, 2, 5) = "Subject"
Clause(14, 2, 6) = "Zero"
Clause(14, 3, 1) = "-"
Clause(14, 3, 2) = "yom exad"
Clause(14, 3, 3) = "day one"
Clause(14, 3, 4) = "NP"
Clause(14, 3, 5) = "Attribute"
Clause(14, 3, 6) = "Quality"

Clause(15, 1, 1) = "Gen01v06a"
Clause(15, 1, 2) = "vayomer"
Clause(15, 1, 3) = "and He said"
Clause(15, 1, 4) = "VP"
Clause(15, 1, 5) = "Main verb"
Clause(15, 1, 6) = "Action"
Clause(15, 2, 1) = "-"
Clause(15, 2, 2) = "elohim"
Clause(15, 2, 3) = "God"
Clause(15, 2, 4) = "NP"
Clause(15, 2, 5) = "Subject"
Clause(15, 2, 6) = "Agent"
Clause(15, 3, 1) = "-"

Clause(15, 3, 2) = "[Gen01v06b - Gen01v06c]"
Clause(15, 3, 3) = "[...]"
Clause(15, 3, 4) = "ECC"
Clause(15, 3, 5) = "Object cluster"
Clause(15, 3, 6) = "Patient"

Clause(16, 1, 1) = "Gen01v06b"
Clause(16, 1, 2) = "yehi"
Clause(16, 1, 3) = "let there be"
Clause(16, 1, 4) = "VP"
Clause(16, 1, 5) = "Copulative verb"
Clause(16, 1, 6) = "State"
Clause(16, 2, 1) = "-"
Clause(16, 2, 2) = "rakia"
Clause(16, 2, 3) = "a firmament"
Clause(16, 2, 4) = "NP"
Clause(16, 2, 5) = "Subject"
Clause(16, 2, 6) = "Zero"
Clause(16, 3, 1) = "-"
Clause(16, 3, 2) = "betox hamayim"
Clause(16, 3, 3) = "in the heaven"
Clause(16, 3, 4) = "PP"
Clause(16, 3, 5) = "Copula-predicate"
Clause(16, 3, 6) = "Location"

Clause(17, 1, 1) = "Gen01v06c"
Clause(17, 1, 2) = "vihi mavdil"
Clause(17, 1, 3) = "and let it be separating"
Clause(17, 1, 4) = "VP"
Clause(17, 1, 5) = "Copulative verb"
Clause(17, 1, 6) = "Action"
Clause(17, 2, 1) = "-"
Clause(17, 2, 2) = "ben mayim"
Clause(17, 2, 3) = "between water"
Clause(17, 2, 4) = "PP"
Clause(17, 2, 5) = "Complement"
Clause(17, 2, 6) = "Patient"
Clause(17, 3, 1) = "-"
Clause(17, 3, 2) = "lamayim"
Clause(17, 3, 3) = "and water"
Clause(17, 3, 4) = "PP"
Clause(17, 3, 5) = "Complement"
Clause(17, 3, 6) = "Source"

Clause(18, 1, 1) = "Gen01v07a"
Clause(18, 1, 2) = "vaya'as"
Clause(18, 1, 3) = "and He made"

Clause(18, 1, 4) = "VP"
Clause(18, 1, 5) = "Main verb"
Clause(18, 1, 6) = "Action"
Clause(18, 2, 1) = "-"
Clause(18, 2, 2) = "elohim"
Clause(18, 2, 3) = "God"
Clause(18, 2, 4) = "NP"
Clause(18, 2, 5) = "Subject"
Clause(18, 2, 6) = "Agent"
Clause(18, 3, 1) = "-"
Clause(18, 3, 2) = "et harakia"
Clause(18, 3, 3) = "the firmament"
Clause(18, 3, 4) = "NP"
Clause(18, 3, 5) = "Object"
Clause(18, 3, 6) = "Patient"

Clause(19, 1, 1) = "Gen01v07b"
Clause(19, 1, 2) = "vayavdel"
Clause(19, 1, 3) = "and He separated"
Clause(19, 1, 4) = "VP"
Clause(19, 1, 5) = "Main verb"
Clause(19, 1, 6) = "Action "
Clause(19, 2, 1) = "-"
Clause(19, 2, 2) = "ben hamayim [Gen01v07c]"
Clause(19, 2, 3) = "between the water [...]"
Clause(19, 2, 4) = "PP"
Clause(19, 2, 5) = "Object"
Clause(19, 2, 6) = "Patient"
Clause(19, 3, 1) = "-"
Clause(19, 3, 2) = "uven hamayim [Gen01v07d]"
Clause(19, 3, 3) = "and between the water [...]"
Clause(19, 3, 4) = "PP"
Clause(19, 3, 5) = "Complement"
Clause(19, 3, 6) = "Source"

Clause(20, 1, 1) = "Gen01v07c"
Clause(20, 1, 2) = "a\$er"
Clause(20, 1, 3) = "that (is)"
Clause(20, 1, 4) = "RP"
Clause(20, 1, 5) = "Subject"
Clause(20, 1, 6) = "Zero"
Clause(20, 2, 1) = "-"
Clause(20, 2, 2) = "mitaxat larakia"
Clause(20, 2, 3) = "under the firmament"
Clause(20, 2, 4) = "PP"
Clause(20, 2, 5) = "Copula-predicate"
Clause(20, 2, 6) = "Location"

Clause(21, 1, 1) = "Gen01v07d"
Clause(21, 1, 2) = "a\$er"
Clause(21, 1, 3) = "that (is)"
Clause(21, 1, 4) = "RP"
Clause(21, 1, 5) = "Subject"
Clause(21, 1, 6) = "Zero"
Clause(21, 2, 1) = "-"
Clause(21, 2, 2) = "me'al larakia"
Clause(21, 2, 3) = "above the firmament"
Clause(21, 2, 4) = "PP"
Clause(21, 2, 5) = "Copula-predicate"
Clause(21, 2, 6) = "Location"

Clause(22, 1, 1) = "Gen01v07e"
Clause(22, 1, 2) = "vayehi"
Clause(22, 1, 3) = "And it was"
Clause(22, 1, 4) = "VP"
Clause(22, 1, 5) = "Copulative verb"
Clause(22, 1, 6) = "State"
Clause(22, 2, 1) = "-"
Clause(22, 2, 2) = "xen"
Clause(22, 2, 3) = "so"
Clause(22, 2, 4) = "AdvP"
Clause(22, 2, 5) = "Complement"
Clause(22, 2, 6) = "Manner"

Clause(23, 1, 1) = "Gen01v08a"
Clause(23, 1, 2) = "vayikra"
Clause(23, 1, 3) = "And He called"
Clause(23, 1, 4) = "VP"
Clause(23, 1, 5) = "Main verb"
Clause(23, 1, 6) = "Action"
Clause(23, 2, 1) = "-"
Clause(23, 2, 2) = "elohim"
Clause(23, 2, 3) = "God"
Clause(23, 2, 4) = "NP"
Clause(23, 2, 5) = "Subject"
Clause(23, 2, 6) = "Agent"
Clause(23, 3, 1) = "-"
Clause(23, 3, 2) = "larakia"
Clause(23, 3, 3) = "to the firmament"
Clause(23, 3, 4) = "PP"
Clause(23, 3, 5) = "IndObj"
Clause(23, 3, 6) = "Patient"
Clause(23, 4, 1) = "-"
Clause(23, 4, 2) = "\$amayim"

Clause(23, 4, 3) = "heaven"
Clause(23, 4, 4) = "NP"
Clause(23, 4, 5) = "Object"
Clause(23, 4, 6) = "Product"

Clause(24, 1, 1) = "Gen01v08b"
Clause(24, 1, 2) = "vayehi"
Clause(24, 1, 3) = "and it was"
Clause(24, 1, 4) = "VP"
Clause(24, 1, 5) = "Copulative verb"
Clause(24, 1, 6) = "State"
Clause(24, 2, 1) = "-"
Clause(24, 2, 2) = "erev"
Clause(24, 2, 3) = "evening"
Clause(24, 2, 4) = "NP"
Clause(24, 2, 5) = "Subject"
Clause(24, 2, 6) = "Zero"

Clause(25, 1, 1) = "Gen01v08c"
Clause(25, 1, 2) = "vayehi"
Clause(25, 1, 3) = "and it was"
Clause(25, 1, 4) = "VP"
Clause(25, 1, 5) = "Copulative verb"
Clause(25, 1, 6) = "State"
Clause(25, 2, 1) = "-"
Clause(25, 2, 2) = "voker"
Clause(25, 2, 3) = "morning"
Clause(25, 2, 4) = "NP"
Clause(25, 2, 5) = "Subject"
Clause(25, 2, 6) = "Zero"
Clause(25, 3, 1) = "-"
Clause(25, 3, 2) = "yom \$eni"
Clause(25, 3, 3) = "second day"
Clause(25, 3, 4) = "NP"
Clause(25, 3, 5) = "Attribute"
Clause(25, 3, 6) = "Quality"

Clause(26, 1, 1) = "Gen01v09a"
Clause(26, 1, 2) = "vayomer"
Clause(26, 1, 3) = "and He said"
Clause(26, 1, 4) = "VP"
Clause(26, 1, 5) = "Main verb"
Clause(26, 1, 6) = "Action"
Clause(26, 2, 1) = "-"
Clause(26, 2, 2) = "elohim"
Clause(26, 2, 3) = "God"
Clause(26, 2, 4) = "NP"

Clause(26, 2, 5) = "Subject"
Clause(26, 2, 6) = "Agent"
Clause(26, 3, 1) = "-"
Clause(26, 3, 2) = "[Gen01v09b - Gen01v09c]"
Clause(26, 3, 3) = "[...]"
Clause(26, 3, 4) = "ECC"
Clause(26, 3, 5) = "Object cluster"
Clause(26, 3, 6) = "Patient"

Clause(27, 1, 1) = "Gen01v09b"
Clause(27, 1, 2) = "yikavu"
Clause(27, 1, 3) = "let they collect"
Clause(27, 1, 4) = "VP"
Clause(27, 1, 5) = "Main verb"
Clause(27, 1, 6) = "Process"
Clause(27, 2, 1) = "-"
Clause(27, 2, 2) = "hamayim mitaxat ha\$amayim"
Clause(27, 2, 3) = "the water under the heaven"
Clause(27, 2, 4) = "NP"
Clause(27, 2, 5) = "Subject"
Clause(27, 2, 6) = "Processed"
Clause(27, 3, 1) = "-"
Clause(27, 3, 2) = "el makom exad"
Clause(27, 3, 3) = "to one place"
Clause(27, 3, 4) = "PP"
Clause(27, 3, 5) = "Complement"
Clause(27, 3, 6) = "Location"

Clause(28, 1, 1) = "Gen01v09c"
Clause(28, 1, 2) = "vetera'eh"
Clause(28, 1, 3) = "and let it become visible"
Clause(28, 1, 4) = "VP"
Clause(28, 1, 5) = "Main verb"
Clause(28, 1, 6) = "Process"
Clause(28, 2, 1) = "-"
Clause(28, 2, 2) = "hayaba\$a"
Clause(28, 2, 3) = "the dry land"
Clause(28, 2, 4) = "NP"
Clause(28, 2, 5) = "Subject"
Clause(28, 2, 6) = "Processed"

Clause(29, 1, 1) = "Gen01v09d"
Clause(29, 1, 2) = "vayehi"
Clause(29, 1, 3) = "and it was"
Clause(29, 1, 4) = "VP"
Clause(29, 1, 5) = "Copulative verb"
Clause(29, 1, 6) = "State"

Clause(29, 2, 1) = "-"
Clause(29, 2, 2) = "xen"
Clause(29, 2, 3) = "so"
Clause(29, 2, 4) = "AdvP"
Clause(29, 2, 5) = "Complement"
Clause(29, 2, 6) = "Manner"

Clause(30, 1, 1) = "Gen01v10a"
Clause(30, 1, 2) = "vayikra"
Clause(30, 1, 3) = "and He called"
Clause(30, 1, 4) = "VP"
Clause(30, 1, 5) = "Main verb"
Clause(30, 1, 6) = "Action"
Clause(30, 2, 1) = "-"
Clause(30, 2, 2) = "elohim"
Clause(30, 2, 3) = "God"
Clause(30, 2, 4) = "NP"
Clause(30, 2, 5) = "Subject"
Clause(30, 2, 6) = "Agent"
Clause(30, 3, 1) = "-"
Clause(30, 3, 2) = "layaba\$a"
Clause(30, 3, 3) = "to the dry land"
Clause(30, 3, 4) = "PP"
Clause(30, 3, 5) = "IndObj"
Clause(30, 3, 6) = "Patient"
Clause(30, 4, 1) = "-"
Clause(30, 4, 2) = "erec"
Clause(30, 4, 3) = "earth"
Clause(30, 4, 4) = "NP"
Clause(30, 4, 5) = "Object"
Clause(30, 4, 6) = "Product"

Clause(31, 1, 1) = "Gen01v10b"
Clause(31, 1, 2) = "ulemikveh hamayim"
Clause(31, 1, 3) = "and to the accumulation of the water"
Clause(31, 1, 4) = "PP"
Clause(31, 1, 5) = "IndObj"
Clause(31, 1, 6) = "Patient"
Clause(31, 2, 1) = "-"
Clause(31, 2, 2) = "kara"
Clause(31, 2, 3) = "He called"
Clause(31, 2, 4) = "VP"
Clause(31, 2, 5) = "Main verb"
Clause(31, 2, 6) = "Action"
Clause(31, 3, 1) = "-"
Clause(31, 3, 2) = "yamim"
Clause(31, 3, 3) = "seas"

Clause(31, 3, 4) = "NP"
Clause(31, 3, 5) = "Object"
Clause(31, 3, 6) = "Product"

Clause(32, 1, 1) = "Gen01v10c"
Clause(32, 1, 2) = "vayar"
Clause(32, 1, 3) = "And He saw"
Clause(32, 1, 4) = "VP"
Clause(32, 1, 5) = "Main verb"
Clause(32, 1, 6) = "Process"
Clause(32, 2, 1) = "-"
Clause(32, 2, 2) = "elohim"
Clause(32, 2, 3) = "God"
Clause(32, 2, 4) = "NP"
Clause(32, 2, 5) = "Subject"
Clause(32, 2, 6) = "Processed"
Clause(32, 3, 1) = "-"
Clause(32, 3, 2) = "[Gen01v10d]"
Clause(32, 3, 3) = "[...]"
Clause(32, 3, 4) = "EC"
Clause(32, 3, 5) = "Object clause"
Clause(32, 3, 6) = "Patient"

Clause(33, 1, 1) = "Gen01v10d"
Clause(33, 1, 2) = "ki"
Clause(33, 1, 3) = "that"
Clause(33, 1, 4) = "ConjP"
Clause(33, 1, 5) = "Conj"
Clause(33, 1, 6) = "-"
Clause(33, 2, 1) = "-"
Clause(33, 2, 2) = "tov"
Clause(33, 2, 3) = "(it was) good"
Clause(33, 2, 4) = "AP"
Clause(33, 2, 5) = "Copula-predicate"
Clause(33, 2, 6) = "Quality"

Clause(34, 1, 1) = "Gen01v11a"
Clause(34, 1, 2) = "vayomer"
Clause(34, 1, 3) = "And He said"
Clause(34, 1, 4) = "VP"
Clause(34, 1, 5) = "Main verb"
Clause(34, 1, 6) = "Action"
Clause(34, 2, 1) = "-"
Clause(34, 2, 2) = "elohim"
Clause(34, 2, 3) = "God"
Clause(34, 2, 4) = "NP"
Clause(34, 2, 5) = "Subject"

Clause(34, 2, 6) = "Agent"
 Clause(34, 3, 1) = "-"
 Clause(34, 3, 2) = "[Gen01v11b]"
 Clause(34, 3, 3) = "[...]"
 Clause(34, 3, 4) = "EC"
 Clause(34, 3, 5) = "Object clause"
 Clause(34, 3, 6) = "Patient"

Clause(35, 1, 1) = "Gen01v11b"
 Clause(35, 1, 2) = "tad\$e"
 Clause(35, 1, 3) = "let it sprout"
 Clause(35, 1, 4) = "VP"
 Clause(35, 1, 5) = "Main verb"
 Clause(35, 1, 6) = "Process"
 Clause(35, 2, 1) = "-"
 Clause(35, 2, 2) = "ha'arec"
 Clause(35, 2, 3) = "the earth"
 Clause(35, 2, 4) = "NP"
 Clause(35, 2, 5) = "Subject"
 Clause(35, 2, 6) = "Processed"
 Clause(35, 3, 1) = "-"
 Clause(35, 3, 2) = "de\$e esev mazria zera ec pri ose pri lemimo [Gen01v11c] al ha'arec"
 Clause(35, 3, 3) = "(with) grass, plant(s) bearing seed, fruittree(s) making fruit according to its kind [Gen01v11c] on the earth"
 Clause(35, 3, 4) = "NP"
 Clause(35, 3, 5) = "Complement"
 Clause(35, 3, 6) = "Reference"

Clause(36, 1, 1) = "Gen01v11c"
 Clause(36, 1, 2) = "a\$er"
 Clause(36, 1, 3) = "(of) which"
 Clause(36, 1, 4) = "RP"
 Clause(36, 1, 5) = "Conj"
 Clause(36, 1, 6) = "-"
 Clause(36, 2, 1) = "-"
 Clause(36, 2, 2) = "zar'o"
 Clause(36, 2, 3) = "its seed"
 Clause(36, 2, 4) = "NP"
 Clause(36, 2, 5) = "Subject"
 Clause(36, 2, 6) = "Zero"
 Clause(36, 3, 1) = "-"
 Clause(36, 3, 2) = "vo"
 Clause(36, 3, 3) = "(is) in it"
 Clause(36, 3, 4) = "PP"
 Clause(36, 3, 5) = "Copula-predicate"
 Clause(36, 3, 6) = "Location"

Clause(37, 1, 1) = "Gen01v11d"
Clause(37, 1, 2) = "vayehi"
Clause(37, 1, 3) = "and it was"
Clause(37, 1, 4) = "VP"
Clause(37, 1, 5) = "Copulative verb"
Clause(37, 1, 6) = "State"
Clause(37, 2, 1) = "-"
Clause(37, 2, 2) = "xen"
Clause(37, 2, 3) = "so"
Clause(37, 2, 4) = "AdvP"
Clause(37, 2, 5) = "Complement"
Clause(37, 2, 6) = "Manner"

Clause(38, 1, 1) = "Gen01v12a"
Clause(38, 1, 2) = "vatoceh"
Clause(38, 1, 3) = "And it produced"
Clause(38, 1, 4) = "VP"
Clause(38, 1, 5) = "Main verb"
Clause(38, 1, 6) = "Process"
Clause(38, 2, 1) = "-"
Clause(38, 2, 2) = "ha'arec"
Clause(38, 2, 3) = "the land"
Clause(38, 2, 4) = "NP"
Clause(38, 2, 5) = "Subject"
Clause(38, 2, 6) = "Processed"
Clause(38, 3, 1) = "-"
Clause(38, 3, 2) = "de\$e esev mazria zera (...) ve'ec ose pri [Gen01v12b] (...)"
Clause(38, 3, 3) = "grass, plant(s) bearing fruit (...) and tree(s) making fruit [Gen01v12b] (...)"
Clause(38, 3, 4) = "NP"
Clause(38, 3, 5) = "Object"
Clause(38, 3, 6) = "Product"
Clause(38, 4, 1) = "-"
Clause(38, 4, 2) = "leminehu... leminehu"
Clause(38, 4, 3) = "according to its kind... according to its kind"
Clause(38, 4, 4) = "PP"
Clause(38, 4, 5) = "Adjunct"
Clause(38, 4, 6) = "Manner"

Clause(39, 1, 1) = "Gen01v12b"
Clause(39, 1, 2) = "a\$er"
Clause(39, 1, 3) = "(of) which"
Clause(39, 1, 4) = "RP"
Clause(39, 1, 5) = "Conj"
Clause(39, 1, 6) = "-"
Clause(39, 2, 1) = "-"
Clause(39, 2, 2) = "zar'o"

Clause(39, 2, 3) = "its seed"
Clause(39, 2, 4) = "NP"
Clause(39, 2, 5) = "Subject"
Clause(39, 2, 6) = "Zero"
Clause(39, 3, 1) = "-"
Clause(39, 3, 2) = "vo"
Clause(39, 3, 3) = " (is) in it"
Clause(39, 3, 4) = "PP"
Clause(39, 3, 5) = "Copula-predicate"
Clause(39, 3, 6) = "Location"

Clause(40, 1, 1) = "Gen01v12c"
Clause(40, 1, 2) = "vayar"
Clause(40, 1, 3) = "And He saw"
Clause(40, 1, 4) = "VP"
Clause(40, 1, 5) = "Main verb"
Clause(40, 1, 6) = "Process"
Clause(40, 2, 1) = "-"
Clause(40, 2, 2) = "elohim"
Clause(40, 2, 3) = "God"
Clause(40, 2, 4) = "NP"
Clause(40, 2, 5) = "Subject"
Clause(40, 2, 6) = "Processed"
Clause(40, 3, 1) = "-"
Clause(40, 3, 2) = "[Gen01v12d]"
Clause(40, 3, 3) = "[...]"
Clause(40, 3, 4) = "EC"
Clause(40, 3, 5) = "Object clause"
Clause(40, 3, 6) = "Patient"

Clause(41, 1, 1) = "Gen01v12d"
Clause(41, 1, 2) = "ki"
Clause(41, 1, 3) = "that"
Clause(41, 1, 4) = "ConjP"
Clause(41, 1, 5) = "Conj"
Clause(41, 1, 6) = "-"
Clause(41, 2, 1) = "-"
Clause(41, 2, 2) = "tov"
Clause(41, 2, 3) = "(it was) good"
Clause(41, 2, 4) = "AP"
Clause(41, 2, 5) = "Copula-predicate"
Clause(41, 2, 6) = "Quality"

Clause(42, 1, 1) = "Gen01v13a"
Clause(42, 1, 2) = "vayehi"
Clause(42, 1, 3) = "and it was"
Clause(42, 1, 4) = "VP"

Clause(42, 1, 5) = "Copulative verb"
Clause(42, 1, 6) = "State"
Clause(42, 2, 1) = "-"
Clause(42, 2, 2) = "erev"
Clause(42, 2, 3) = "evening"
Clause(42, 2, 4) = "NP"
Clause(42, 2, 5) = "Subject"
Clause(42, 2, 6) = "Zero"

Clause(43, 1, 1) = "Gen01v13b"
Clause(43, 1, 2) = "vayehi"
Clause(43, 1, 3) = "and it was"
Clause(43, 1, 4) = "VP"
Clause(43, 1, 5) = "Copulative verb"
Clause(43, 1, 6) = "State"
Clause(43, 2, 1) = "-"
Clause(43, 2, 2) = "voker"
Clause(43, 2, 3) = "morning"
Clause(43, 2, 4) = "NP"
Clause(43, 2, 5) = "Subject"
Clause(43, 2, 6) = "Zero"
Clause(43, 3, 1) = "-"
Clause(43, 3, 2) = "yom \$li\$i"
Clause(43, 3, 3) = "third day"
Clause(43, 3, 4) = "NP"
Clause(43, 3, 5) = "Attribute"
Clause(43, 3, 6) = "Quality"

Clause(44, 1, 1) = "Gen01v14a"
Clause(44, 1, 2) = "vayomer"
Clause(44, 1, 3) = "And He said"
Clause(44, 1, 4) = "VP"
Clause(44, 1, 5) = "Main verb"
Clause(44, 1, 6) = "Action"
Clause(44, 2, 1) = "-"
Clause(44, 2, 2) = "elohim"
Clause(44, 2, 3) = "God"
Clause(44, 2, 4) = "NP"
Clause(44, 2, 5) = "Subject"
Clause(44, 2, 6) = "Agent"
Clause(44, 3, 1) = "-"
Clause(44, 3, 2) = "[Gen01v14b - Gen01v14d]"
Clause(44, 3, 3) = "[...]"
Clause(44, 3, 4) = "ECC"
Clause(44, 3, 5) = "Object cluster"
Clause(44, 3, 6) = "Patient"

Clause(45, 1, 1) = "Gen01v14b"
Clause(45, 1, 2) = "yehi"
Clause(45, 1, 3) = "let there be"
Clause(45, 1, 4) = "VP"
Clause(45, 1, 5) = "Copulative verb"
Clause(45, 1, 6) = "State"
Clause(45, 2, 1) = "-"
Clause(45, 2, 2) = "me'orot"
Clause(45, 2, 3) = "lights"
Clause(45, 2, 4) = "NP"
Clause(45, 2, 5) = "Subject"
Clause(45, 2, 6) = "Zero"
Clause(45, 3, 1) = "-"
Clause(45, 3, 2) = "birkia ha\$amayim"
Clause(45, 3, 3) = "in the firmament of the heaven"
Clause(45, 3, 4) = "PP"
Clause(45, 3, 5) = "Copula-predicate"
Clause(45, 3, 6) = "Location"
Clause(45, 4, 1) = "-"
Clause(45, 4, 2) = "lehavdil ben hayom uven halayla"
Clause(45, 4, 3) = "to separate between the day and between the night"
Clause(45, 4, 4) = "PP"
Clause(45, 4, 5) = "Adjunct"
Clause(45, 4, 6) = "Purpose"

Clause(46, 1, 1) = "Gen01v14c"
Clause(46, 1, 2) = "vehayu"
Clause(46, 1, 3) = "and let them be"
Clause(46, 1, 4) = "VP"
Clause(46, 1, 5) = "Main verb"
Clause(46, 1, 6) = "State"
Clause(46, 2, 1) = "-"
Clause(46, 2, 2) = "le'otot ulmo'adim ulyamim ve\$anim"
Clause(46, 2, 3) = "to signs and to seasons and to days and years"
Clause(46, 2, 4) = "PP"
Clause(46, 2, 5) = "Copula-predicate"
Clause(46, 2, 6) = "Classification"

Clause(47, 1, 1) = "Gen01v15a"
Clause(47, 1, 2) = "vehayu"
Clause(47, 1, 3) = "and let them be"
Clause(47, 1, 4) = "VP"
Clause(47, 1, 5) = "Main verb"
Clause(47, 1, 6) = "State"
Clause(47, 2, 1) = "-"
Clause(47, 2, 2) = "lim'orot"
Clause(47, 2, 3) = "to lights"

Clause(47, 2, 4) = "PP"
Clause(47, 2, 5) = "Copula-predicate"
Clause(47, 2, 6) = "Classification"
Clause(47, 3, 1) = "-"
Clause(47, 3, 2) = "birkia ha\$amayim"
Clause(47, 3, 3) = "in the firmament of the heaven"
Clause(47, 3, 4) = "PP"
Clause(47, 3, 5) = "Adjunct"
Clause(47, 3, 6) = "Location"
Clause(47, 4, 1) = "-"
Clause(47, 4, 2) = "leha'ir al ha'arec"
Clause(47, 4, 3) = "to shine on the earth"
Clause(47, 4, 4) = "PP"
Clause(47, 4, 5) = "Adjunct"
Clause(47, 4, 6) = "Purpose"

Clause(48, 1, 1) = "Gen01v15b"
Clause(48, 1, 2) = "vayehi"
Clause(48, 1, 3) = "and it was"
Clause(48, 1, 4) = "VP"
Clause(48, 1, 5) = "Copulative verb"
Clause(48, 1, 6) = "State"
Clause(48, 2, 1) = "-"
Clause(48, 2, 2) = "xen"
Clause(48, 2, 3) = "so"
Clause(48, 2, 4) = "AdvP"
Clause(48, 2, 5) = "Complement"
Clause(48, 2, 6) = "Manner"

Clause(49, 1, 1) = "Gen01v16a"
Clause(49, 1, 2) = "vaya'as"
Clause(49, 1, 3) = "and he made"
Clause(49, 1, 4) = "VP"
Clause(49, 1, 5) = "Main verb"
Clause(49, 1, 6) = "Action"
Clause(49, 2, 1) = "-"
Clause(49, 2, 2) = "elohim"
Clause(49, 2, 3) = "God"
Clause(49, 2, 4) = "NP"
Clause(49, 2, 5) = "Subject"
Clause(49, 2, 6) = "Agent"
Clause(49, 3, 1) = "-"
Clause(49, 3, 2) = "et \$ney ham'orot hagdolim et hama'or hagadol ... ve'et hama'or hakaton ... ve'et hakoxavim"
Clause(49, 3, 3) = "the two great lights, the big light ..., and the small light ..., and the stars"
Clause(49, 3, 4) = "NP"

Clause(49, 3, 5) = "Object"
Clause(49, 3, 6) = "Product"
Clause(49, 4, 1) = "-"
Clause(49, 4, 2) = "lemem\$elet hayom ... lemem\$elet halayla"
Clause(49, 4, 3) = "to the dominion of the day ... to the dominion of the night"
Clause(49, 4, 4) = "PP"
Clause(49, 4, 5) = "Adjunct"
Clause(49, 4, 6) = "Purpose"

Clause(50, 1, 1) = "Gen01v17a"
Clause(50, 1, 2) = "vayiten"
Clause(50, 1, 3) = "and He gave"
Clause(50, 1, 4) = "VP"
Clause(50, 1, 5) = "Main verb"
Clause(50, 1, 6) = "Action"
Clause(50, 2, 1) = "-"
Clause(50, 2, 2) = "otam"
Clause(50, 2, 3) = "them"
Clause(50, 2, 4) = "NP"
Clause(50, 2, 5) = "Object"
Clause(50, 2, 6) = "Patient"
Clause(50, 3, 1) = "-"
Clause(50, 3, 2) = "elohim"
Clause(50, 3, 3) = "God"
Clause(50, 3, 4) = "NP"
Clause(50, 3, 5) = "Subject"
Clause(50, 3, 6) = "Agent"
Clause(50, 4, 1) = "-"
Clause(50, 4, 2) = "birkia ha\$amayim"
Clause(50, 4, 3) = "in the firmament of the heaven"
Clause(50, 4, 4) = "PP"
Clause(50, 4, 5) = "Complement"
Clause(50, 4, 6) = "Location"
Clause(50, 5, 1) = "-"
Clause(50, 5, 2) = "leha'ir al ha'arec (Gen01v18a) velim\$ol bayom uvalayla ulahavdil ben ha'or uven haxo\$ex"
Clause(50, 5, 3) = "to shine on the earth and to rule over the day and the night and to separate between the light and between the darkness"
Clause(50, 5, 4) = "PP"
Clause(50, 5, 5) = "Adjunct"
Clause(50, 5, 6) = "Purpose"

Clause(51, 1, 1) = "Gen01v18b"
Clause(51, 1, 2) = "vayar"
Clause(51, 1, 3) = "and He saw"
Clause(51, 1, 4) = "VP"
Clause(51, 1, 5) = "Main verb"

Clause(51, 1, 6) = "Process"
Clause(51, 2, 1) = "-"
Clause(51, 2, 2) = "elohim"
Clause(51, 2, 3) = "God"
Clause(51, 2, 4) = "NP"
Clause(51, 2, 5) = "Subject"
Clause(51, 2, 6) = "Processed"
Clause(51, 3, 1) = "-"
Clause(51, 3, 2) = "[Gen01v18d]"
Clause(51, 3, 3) = "[...]"
Clause(51, 3, 4) = "EC"
Clause(51, 3, 5) = "Object clause"
Clause(51, 3, 6) = "Patient"

Clause(52, 1, 1) = "Gen01v18d"
Clause(52, 1, 2) = "ki"
Clause(52, 1, 3) = "that"
Clause(52, 1, 4) = "ConjP"
Clause(52, 1, 5) = "Conj"
Clause(52, 1, 6) = "-"
Clause(52, 2, 1) = "-"
Clause(52, 2, 2) = "tov"
Clause(52, 2, 3) = "(it was) good"
Clause(52, 2, 4) = "AP"
Clause(52, 2, 5) = "Copula-predicate"
Clause(52, 2, 6) = "Quality"

Clause(53, 1, 1) = "Gen01v19a"
Clause(53, 1, 2) = "vayehi"
Clause(53, 1, 3) = "and it was"
Clause(53, 1, 4) = "VP"
Clause(53, 1, 5) = "Copulative verb"
Clause(53, 1, 6) = "State"
Clause(53, 2, 1) = "-"
Clause(53, 2, 2) = "erev"
Clause(53, 2, 3) = "evening"
Clause(53, 2, 4) = "NP"
Clause(53, 2, 5) = "Subject"
Clause(53, 2, 6) = "Zero"

Clause(54, 1, 1) = "Gen01v19b"
Clause(54, 1, 2) = "vayehi"
Clause(54, 1, 3) = "and it was"
Clause(54, 1, 4) = "VP"
Clause(54, 1, 5) = "Copulative verb"
Clause(54, 1, 6) = "State"
Clause(54, 2, 1) = "-"

Clause(54, 2, 2) = "voker"
Clause(54, 2, 3) = "morning"
Clause(54, 2, 4) = "NP"
Clause(54, 2, 5) = "Subject"
Clause(54, 2, 6) = "Zero"
Clause(54, 3, 1) = "-"
Clause(54, 3, 2) = "yom revi'i "
Clause(54, 3, 3) = "fourth day"
Clause(54, 3, 4) = "NP"
Clause(54, 3, 5) = "Attribute"
Clause(54, 3, 6) = "Quality"

Clause(55, 1, 1) = "Gen01v20a"
Clause(55, 1, 2) = "vayomer"
Clause(55, 1, 3) = "and He said"
Clause(55, 1, 4) = "VP"
Clause(55, 1, 5) = "Main verb"
Clause(55, 1, 6) = "Action"
Clause(55, 2, 1) = "-"
Clause(55, 2, 2) = "elohim"
Clause(55, 2, 3) = "God"
Clause(55, 2, 4) = "NP"
Clause(55, 2, 5) = "Subject"
Clause(55, 2, 6) = "Agent"
Clause(55, 3, 1) = "-"
Clause(55, 3, 2) = "[Gen01v20b - Gen01v20c]"
Clause(55, 3, 3) = "[...]"
Clause(55, 3, 4) = "ECC"
Clause(55, 3, 5) = "Object cluster"
Clause(55, 3, 6) = "Patient"

Clause(56, 1, 1) = "Gen01v20b"
Clause(56, 1, 2) = "yi\$recu"
Clause(56, 1, 3) = "let they swarm"
Clause(56, 1, 4) = "VP"
Clause(56, 1, 5) = "Main verb"
Clause(56, 1, 6) = "Process"
Clause(56, 2, 1) = "-"
Clause(56, 2, 2) = "hamayim"
Clause(56, 2, 3) = "the water"
Clause(56, 2, 4) = "NP"
Clause(56, 2, 5) = "Subject"
Clause(56, 2, 6) = "Processed"
Clause(56, 3, 1) = "-"
Clause(56, 3, 2) = "\$erec nefe\$ xaya"
Clause(56, 3, 3) = "(with) swarming things, living beings"
Clause(56, 3, 4) = "NP"

Clause(56, 3, 5) = "Complement"

Clause(56, 3, 6) = "Reference"

Clause(57, 1, 1) = "Gen01v20c"

Clause(57, 1, 2) = "ve'of"

Clause(57, 1, 3) = "and flying creatures"

Clause(57, 1, 4) = "NP"

Clause(57, 1, 5) = "Subject"

Clause(57, 1, 6) = "Agent"

Clause(57, 2, 1) = "-"

Clause(57, 2, 2) = "ye'ofef"

Clause(57, 2, 3) = "let they fly"

Clause(57, 2, 4) = "VP"

Clause(57, 2, 5) = "Main verb"

Clause(57, 2, 6) = "Action"

Clause(57, 3, 1) = "-"

Clause(57, 3, 2) = "al ha'arec"

Clause(57, 3, 3) = "over the land"

Clause(57, 3, 4) = "PP"

Clause(57, 3, 5) = "Complement"

Clause(57, 3, 6) = "Location"

Clause(57, 4, 1) = "-"

Clause(57, 4, 2) = "al pney rekia ha\$amayim"

Clause(57, 4, 3) = "in front of the firmament of the heaven"

Clause(57, 4, 4) = "PP"

Clause(57, 4, 5) = "Adjunct"

Clause(57, 4, 6) = "Location"

Clause(58, 1, 1) = "Gen01v21a"

Clause(58, 1, 2) = "vayivra"

Clause(58, 1, 3) = "and He created"

Clause(58, 1, 4) = "VP"

Clause(58, 1, 5) = "Main verb"

Clause(58, 1, 6) = "Action"

Clause(58, 2, 1) = "-"

Clause(58, 2, 2) = "elohim"

Clause(58, 2, 3) = "God"

Clause(58, 2, 4) = "NP"

Clause(58, 2, 5) = "Subject"

Clause(58, 2, 6) = "Agent"

Clause(58, 3, 1) = "-"

Clause(58, 3, 2) = "et hatanim hagdolim ve'et kol nefe\$ haxaya haromeset [Gen01v21a] (Ieminehem) ve'et kol of kanaf (Ieminehu)"

Clause(58, 3, 3) = "the big sea monsters and every swarming living being [Gen01v21b] (...) and every flying creature (with) wing(s) (...)"

Clause(58, 3, 4) = "NP"

Clause(58, 3, 5) = "Object"

Clause(58, 3, 6) = "Product"
Clause(58, 4, 1) = "-"
Clause(58, 4, 2) = "leminehem ... leminehu"
Clause(58, 4, 3) = "according to their kind ... according to its kind"
Clause(58, 4, 4) = "PP"
Clause(58, 4, 5) = "Adjunct"
Clause(58, 4, 6) = "Manner"

Clause(59, 1, 1) = "Gen01v21b"
Clause(59, 1, 2) = "a\$er"
Clause(59, 1, 3) = "that"
Clause(59, 1, 4) = "RP"
Clause(59, 1, 5) = "Subject"
Clause(59, 1, 6) = "Agent"
Clause(59, 2, 1) = "-"
Clause(59, 2, 2) = "\$arcu"
Clause(59, 2, 3) = "swarms"
Clause(59, 2, 4) = "VP"
Clause(59, 2, 5) = "Main verb"
Clause(59, 2, 6) = "Action"
Clause(59, 3, 1) = "-"
Clause(59, 3, 2) = "hamayim"
Clause(59, 3, 3) = "(in) the water"
Clause(59, 3, 4) = "NP"
Clause(59, 3, 5) = "Adjunct"
Clause(59, 3, 6) = "Location"

Clause(60, 1, 1) = "Gen01v21c"
Clause(60, 1, 2) = "vayar"
Clause(60, 1, 3) = "and He saw"
Clause(60, 1, 4) = "VP"
Clause(60, 1, 5) = "Main verb"
Clause(60, 1, 6) = "Process"
Clause(60, 2, 1) = "-"
Clause(60, 2, 2) = "elohim"
Clause(60, 2, 3) = "God"
Clause(60, 2, 4) = "NP"
Clause(60, 2, 5) = "Subject"
Clause(60, 2, 6) = "Processed"
Clause(60, 3, 1) = "-"
Clause(60, 3, 2) = "[Gen01v21d]"
Clause(60, 3, 3) = "[...]"
Clause(60, 3, 4) = "EC"
Clause(60, 3, 5) = "Object clause"
Clause(60, 3, 6) = "Patient"

Clause(61, 1, 1) = "Gen01v21d"

Clause(61, 1, 2) = "ki"
Clause(61, 1, 3) = "that"
Clause(61, 1, 4) = "ConjP"
Clause(61, 1, 5) = "Conj"
Clause(61, 1, 6) = "-"
Clause(61, 2, 1) = "-"
Clause(61, 2, 2) = "tov"
Clause(61, 2, 3) = " (it was) good"
Clause(61, 2, 4) = "AP"
Clause(61, 2, 5) = "Copula-predicate"
Clause(61, 2, 6) = "Quality"

Clause(62, 1, 1) = "Gen01v22a"
Clause(62, 1, 2) = "vayvarex"
Clause(62, 1, 3) = "and he blessed"
Clause(62, 1, 4) = "VP"
Clause(62, 1, 5) = "Main verb"
Clause(62, 1, 6) = "Action"
Clause(62, 2, 1) = "-"
Clause(62, 2, 2) = "otam"
Clause(62, 2, 3) = "them"
Clause(62, 2, 4) = "NP"
Clause(62, 2, 5) = "Object"
Clause(62, 2, 6) = "Patient"
Clause(62, 3, 1) = "-"
Clause(62, 3, 2) = "elohim"
Clause(62, 3, 3) = "God"
Clause(62, 3, 4) = "NP"
Clause(62, 3, 5) = "Subject"
Clause(62, 3, 6) = "Agent"
Clause(62, 4, 1) = "-"
Clause(62, 4, 2) = "Iemor [Gen01v22b - Gen01v22e]"
Clause(62, 4, 3) = "by saying [...]"
Clause(62, 4, 4) = "PP"
Clause(62, 4, 5) = "Adjunct"
Clause(62, 4, 6) = "Manner"

Clause(63, 1, 1) = "Gen01v22b"
Clause(63, 1, 2) = "pru"
Clause(63, 1, 3) = "be fruitful"
Clause(63, 1, 4) = "VP"
Clause(63, 1, 5) = "Main verb"
Clause(63, 1, 6) = "State"

Clause(64, 1, 1) = "Gen01v22c"
Clause(64, 1, 2) = "urvu"
Clause(64, 1, 3) = "and become numerous"

Clause(64, 1, 4) = "VP"
Clause(64, 1, 5) = "Main verb"
Clause(64, 1, 6) = "Process"

Clause(65, 1, 1) = "Gen01v22d"
Clause(65, 1, 2) = "umil'u"
Clause(65, 1, 3) = "and fill"
Clause(65, 1, 4) = "VP"
Clause(65, 1, 5) = "Main verb"
Clause(65, 1, 6) = "Action"
Clause(65, 2, 1) = "-"
Clause(65, 2, 2) = "et hamayim bayamim"
Clause(65, 2, 3) = "the water in the sea"
Clause(65, 2, 4) = "NP"
Clause(65, 2, 5) = "Object"
Clause(65, 2, 6) = "Patient"

Clause(66, 1, 1) = "Gen01v22e"
Clause(66, 1, 2) = "veha'of"
Clause(66, 1, 3) = "and the flying creature(s)"
Clause(66, 1, 4) = "NP"
Clause(66, 1, 5) = "Subject"
Clause(66, 1, 6) = "Processed"
Clause(66, 2, 1) = "-"
Clause(66, 2, 2) = "yirev"
Clause(66, 2, 3) = "let it become numerous"
Clause(66, 2, 4) = "VP"
Clause(66, 2, 5) = "Main verb"
Clause(66, 2, 6) = "Process"
Clause(66, 3, 1) = "-"
Clause(66, 3, 2) = "ba'arec"
Clause(66, 3, 3) = "on the earth"
Clause(66, 3, 4) = "PP"
Clause(66, 3, 5) = "Adjunct"
Clause(66, 3, 6) = "Location"

Clause(67, 1, 1) = "Gen01v23a"
Clause(67, 1, 2) = "vayehi"
Clause(67, 1, 3) = "and it was"
Clause(67, 1, 4) = "VP"
Clause(67, 1, 5) = "Copulative verb"
Clause(67, 1, 6) = "State"
Clause(67, 2, 1) = "-"
Clause(67, 2, 2) = "erev"
Clause(67, 2, 3) = "evening"
Clause(67, 2, 4) = "NP"
Clause(67, 2, 5) = "Subject"

Clause(67, 2, 6) = "Zero"

Clause(68, 1, 1) = "Gen01v23b"
Clause(68, 1, 2) = "vayehi"
Clause(68, 1, 3) = "and it was"
Clause(68, 1, 4) = "VP"
Clause(68, 1, 5) = "Copulative verb"
Clause(68, 1, 6) = "State"
Clause(68, 2, 1) = "-"
Clause(68, 2, 2) = "voker"
Clause(68, 2, 3) = "morning"
Clause(68, 2, 4) = "NP"
Clause(68, 2, 5) = "Subject"
Clause(68, 2, 6) = "Zero"
Clause(68, 3, 1) = "-"
Clause(68, 3, 2) = "yom xami\$i"
Clause(68, 3, 3) = "fifth day"
Clause(68, 3, 4) = "NP"
Clause(68, 3, 5) = "Attribute"
Clause(68, 3, 6) = "Quality"

Clause(69, 1, 1) = "Gen01v24a"
Clause(69, 1, 2) = "vayomer"
Clause(69, 1, 3) = "and He said"
Clause(69, 1, 4) = "VP"
Clause(69, 1, 5) = "Main verb"
Clause(69, 1, 6) = "Action"
Clause(69, 2, 1) = "-"
Clause(69, 2, 2) = "elohim"
Clause(69, 2, 3) = "God"
Clause(69, 2, 4) = "NP"
Clause(69, 2, 5) = "Subject"
Clause(69, 2, 6) = "Agent"
Clause(69, 3, 1) = "-"
Clause(69, 3, 2) = "[Gen01v24a]"
Clause(69, 3, 3) = "[...]"
Clause(69, 3, 4) = "EC"
Clause(69, 3, 5) = "Object clause"
Clause(69, 3, 6) = "Patient"

Clause(70, 1, 1) = "Gen01v24b"
Clause(70, 1, 2) = "toce"
Clause(70, 1, 3) = "let it bring forth"
Clause(70, 1, 4) = "VP"
Clause(70, 1, 5) = "Main verb"
Clause(70, 1, 6) = "Process"
Clause(70, 2, 1) = "-"

Clause(70, 2, 2) = "ha'arec"
 Clause(70, 2, 3) = "the earth"
 Clause(70, 2, 4) = "NP"
 Clause(70, 2, 5) = "Subject"
 Clause(70, 2, 6) = "Processed"
 Clause(70, 3, 1) = "-"
 Clause(70, 3, 2) = "nefe\$ xaya (leminah) behema varemes vexayto erac (leminah)"
 Clause(70, 3, 3) = "living being(s) (...), animals and small animals and living beings of the land (...)"
 Clause(70, 3, 4) = "NP"
 Clause(70, 3, 5) = "Object"
 Clause(70, 3, 6) = "Product"
 Clause(70, 4, 1) = "-"
 Clause(70, 4, 2) = "leminah ... leminah"
 Clause(70, 4, 3) = "according to its kind ... according to its kind"
 Clause(70, 4, 4) = "PP"
 Clause(70, 4, 5) = "Adjunct"
 Clause(70, 4, 6) = "Manner"

Clause(71, 1, 1) = "Gen01v24c"
 Clause(71, 1, 2) = "vayehi"
 Clause(71, 1, 3) = "and it was"
 Clause(71, 1, 4) = "VP"
 Clause(71, 1, 5) = "Copulative verb"
 Clause(71, 1, 6) = "State"
 Clause(71, 2, 1) = "-"
 Clause(71, 2, 2) = "xen"
 Clause(71, 2, 3) = "so"
 Clause(71, 2, 4) = "AdvP"
 Clause(71, 2, 5) = "Complement"
 Clause(71, 2, 6) = "Manner"

Clause(72, 1, 1) = "Gen01v25a"
 Clause(72, 1, 2) = "vaya'as"
 Clause(72, 1, 3) = "and He made"
 Clause(72, 1, 4) = "VP"
 Clause(72, 1, 5) = "Main verb"
 Clause(72, 1, 6) = "Action"
 Clause(72, 2, 1) = "-"
 Clause(72, 2, 2) = "elohim"
 Clause(72, 2, 3) = "God"
 Clause(72, 2, 4) = "NP"
 Clause(72, 2, 5) = "Subject"
 Clause(72, 2, 6) = "Agent"
 Clause(72, 3, 1) = "-"
 Clause(72, 3, 2) = "et xayat ha'arec (leminah) ve'et habhema (leminah) ve'et kol remes ha'adama (leminahu)"

Clause(72, 3, 3) = "the living beings of the earth (...) and the animals (...) and all the small animals of the land (...)"

Clause(72, 3, 4) = "NP"

Clause(72, 3, 5) = "Object"

Clause(72, 3, 6) = "Product"

Clause(72, 4, 1) = "-"

Clause(72, 4, 2) = "leminah ... leminah ... leminehu"

Clause(72, 4, 3) = "according to its kind ... according to its kind ... according to its kind"

Clause(72, 4, 4) = "PP"

Clause(72, 4, 5) = "Adjunct"

Clause(72, 4, 6) = "Manner"

Clause(73, 1, 1) = "Gen01v25b"

Clause(73, 1, 2) = "vayar"

Clause(73, 1, 3) = "and He saw"

Clause(73, 1, 4) = "VP"

Clause(73, 1, 5) = "Main verb"

Clause(73, 1, 6) = "Process"

Clause(73, 2, 1) = "-"

Clause(73, 2, 2) = "elohim"

Clause(73, 2, 3) = "God"

Clause(73, 2, 4) = "NP"

Clause(73, 2, 5) = "Subject"

Clause(73, 2, 6) = "Processed"

Clause(73, 3, 1) = "-"

Clause(73, 3, 2) = "[Gen01v25c]"

Clause(73, 3, 3) = "[...]"

Clause(73, 3, 4) = "EC"

Clause(73, 3, 5) = "Object clause"

Clause(73, 3, 6) = "Patient"

Clause(74, 1, 1) = "Gen01v25c"

Clause(74, 1, 2) = "ki"

Clause(74, 1, 3) = "that"

Clause(74, 1, 4) = "ConjP"

Clause(74, 1, 5) = "Conj"

Clause(74, 1, 6) = "-"

Clause(74, 2, 1) = "-"

Clause(74, 2, 2) = "tov"

Clause(74, 2, 3) = "(it was) good"

Clause(74, 2, 4) = "AP"

Clause(74, 2, 5) = "Copula-predicate"

Clause(74, 2, 6) = "Quality"

Clause(75, 1, 1) = "Gen01v26a"

Clause(75, 1, 2) = "vayomer"

Clause(75, 1, 3) = "and He said"

Clause(75, 1, 4) = "VP"
 Clause(75, 1, 5) = "Main verb"
 Clause(75, 1, 6) = "Action"
 Clause(75, 2, 1) = "-"
 Clause(75, 2, 2) = "elohim"
 Clause(75, 2, 3) = "God"
 Clause(75, 2, 4) = "NP"
 Clause(75, 2, 5) = "Subject"
 Clause(75, 2, 6) = "Agent"
 Clause(75, 3, 1) = "-"
 Clause(75, 3, 2) = "[Gen01v26b - Gen01v26c]"
 Clause(75, 3, 3) = "[...]"
 Clause(75, 3, 4) = "ECC"
 Clause(75, 3, 5) = "Object cluster"
 Clause(75, 3, 6) = "Patient"

Clause(76, 1, 1) = "Gen01v26b"
 Clause(76, 1, 2) = "na'aseh"
 Clause(76, 1, 3) = "let Us make"
 Clause(76, 1, 4) = "VP"
 Clause(76, 1, 5) = "Main verb"
 Clause(76, 1, 6) = "Action"
 Clause(76, 2, 1) = "-"
 Clause(76, 2, 2) = "adam"
 Clause(76, 2, 3) = "people"
 Clause(76, 2, 4) = "NP"
 Clause(76, 2, 5) = "Object"
 Clause(76, 2, 6) = "Product"
 Clause(76, 3, 1) = "-"
 Clause(76, 3, 2) = "becalmenu kidmutenu"
 Clause(76, 3, 3) = "in our image, according to our form"
 Clause(76, 3, 4) = "PP"
 Clause(76, 3, 5) = "Adjunct"
 Clause(76, 3, 6) = "Manner"

Clause(77, 1, 1) = "Gen01v26c"
 Clause(77, 1, 2) = "veyirdu"
 Clause(77, 1, 3) = "and let them govern"
 Clause(77, 1, 4) = "VP"
 Clause(77, 1, 5) = "Main verb"
 Clause(77, 1, 6) = "Agent"
 Clause(77, 2, 1) = "-"
 Clause(77, 2, 2) = "vidgat hayam uv'of ha\$amayim uvabhema uvxol ha'arec uvxol haremes haromes al ha'arec"
 Clause(77, 2, 3) = "over the fish of the sea and over the flying creatures of the heaven and over the animals and over the whole earth and over all the small animals that swarm on the earth"

Clause(77, 2, 4) = "PP"
Clause(77, 2, 5) = "Complement"
Clause(77, 2, 6) = "Patient"

Clause(78, 1, 1) = "Gen01v27a"
Clause(78, 1, 2) = "vayivra"
Clause(78, 1, 3) = "and he created"
Clause(78, 1, 4) = "VP"
Clause(78, 1, 5) = "Main verb"
Clause(78, 1, 6) = "Action"
Clause(78, 2, 1) = "-"
Clause(78, 2, 2) = "elohim"
Clause(78, 2, 3) = "God"
Clause(78, 2, 4) = "NP"
Clause(78, 2, 5) = "Subject"
Clause(78, 2, 6) = "Agent"
Clause(78, 3, 1) = "-"
Clause(78, 3, 2) = "et ha'adam"
Clause(78, 3, 3) = "the people"
Clause(78, 3, 4) = "NP"
Clause(78, 3, 5) = "Object"
Clause(78, 3, 6) = "Product"
Clause(78, 4, 1) = "-"
Clause(78, 4, 2) = "becalmo"
Clause(78, 4, 3) = "in his image"
Clause(78, 4, 4) = "PP"
Clause(78, 4, 5) = "Adjunct"
Clause(78, 4, 6) = "Manner"

Clause(79, 1, 1) = "Gen01v27b"
Clause(79, 1, 2) = "becelem elohim"
Clause(79, 1, 3) = "in the image of God"
Clause(79, 1, 4) = "PP"
Clause(79, 1, 5) = "Adjunct"
Clause(79, 1, 6) = "Manner"
Clause(79, 2, 1) = "-"
Clause(79, 2, 2) = "bara"
Clause(79, 2, 3) = "He created"
Clause(79, 2, 4) = "VP"
Clause(79, 2, 5) = "Main verb"
Clause(79, 2, 6) = "Action"
Clause(79, 3, 1) = "-"
Clause(79, 3, 2) = "oto"
Clause(79, 3, 3) = "him"
Clause(79, 3, 4) = "NP"
Clause(79, 3, 5) = "Object"
Clause(79, 3, 6) = "Product"

Clause(80, 1, 1) = "Gen01v27c"
Clause(80, 1, 2) = "zaxar unkeva"
Clause(80, 1, 3) = "male and female"
Clause(80, 1, 4) = "AP"
Clause(80, 1, 5) = "Attribute"
Clause(80, 1, 6) = "Quality"
Clause(80, 2, 1) = "-"
Clause(80, 2, 2) = "bara"
Clause(80, 2, 3) = "He created"
Clause(80, 2, 4) = "VP"
Clause(80, 2, 5) = "Main verb"
Clause(80, 2, 6) = "Action"
Clause(80, 3, 1) = "-"
Clause(80, 3, 2) = "otam"
Clause(80, 3, 3) = "them"
Clause(80, 3, 4) = "NP"
Clause(80, 3, 5) = "Object"
Clause(80, 3, 6) = "Product"

Clause(81, 1, 1) = "Gen01v28a"
Clause(81, 1, 2) = "vayvarex"
Clause(81, 1, 3) = "and He blessed"
Clause(81, 1, 4) = "VP"
Clause(81, 1, 5) = "Main verb"
Clause(81, 1, 6) = "Action"
Clause(81, 2, 1) = "-"
Clause(81, 2, 2) = "otam"
Clause(81, 2, 3) = "them"
Clause(81, 2, 4) = "NP"
Clause(81, 2, 5) = "Object"
Clause(81, 2, 6) = "Patient"
Clause(81, 3, 1) = "-"
Clause(81, 3, 2) = "elohim"
Clause(81, 3, 3) = "God"
Clause(81, 3, 4) = "NP"
Clause(81, 3, 5) = "Subject"
Clause(81, 3, 6) = "Agent"

Clause(82, 1, 1) = "Gen01v28b"
Clause(82, 1, 2) = "vayomer"
Clause(82, 1, 3) = "and he said"
Clause(82, 1, 4) = "VP"
Clause(82, 1, 5) = "Main verb"
Clause(82, 1, 6) = "Action"
Clause(82, 2, 1) = "-"
Clause(82, 2, 2) = "elohim"

Clause(82, 2, 3) = "God"
Clause(82, 2, 4) = "NP"
Clause(82, 2, 5) = "Subject"
Clause(82, 2, 6) = "Agent"
Clause(82, 3, 1) = "-"
Clause(82, 3, 2) = "[Gen01v28b - Gen01v28g]"
Clause(82, 3, 3) = "[...]"
Clause(82, 3, 4) = "ECC"
Clause(82, 3, 5) = "Object cluster"
Clause(82, 3, 6) = "Patient"

Clause(83, 1, 1) = "Gen01v28c"
Clause(83, 1, 2) = "pru"
Clause(83, 1, 3) = "be fruitful"
Clause(83, 1, 4) = "VP"
Clause(83, 1, 5) = "Main verb"
Clause(83, 1, 6) = "State"

Clause(84, 1, 1) = "Gen01v28d"
Clause(84, 1, 2) = "urvu"
Clause(84, 1, 3) = "and become numerous"
Clause(84, 1, 4) = "VP"
Clause(84, 1, 5) = "Main verb"
Clause(84, 1, 6) = "Process"

Clause(85, 1, 1) = "Gen01v28e"
Clause(85, 1, 2) = "umil'u"
Clause(85, 1, 3) = "and fill"
Clause(85, 1, 4) = "VP"
Clause(85, 1, 5) = "Main verb"
Clause(85, 1, 6) = "Action"
Clause(85, 2, 1) = "-"
Clause(85, 2, 2) = "et ha'arec"
Clause(85, 2, 3) = "the earth"
Clause(85, 2, 4) = "NP"
Clause(85, 2, 5) = "Object"
Clause(85, 2, 6) = "Patient"

Clause(86, 1, 1) = "Gen01v28f"
Clause(86, 1, 2) = "vexiv\$uha"
Clause(86, 1, 3) = "and rule it"
Clause(86, 1, 4) = "VP"
Clause(86, 1, 5) = "Main verb"
Clause(86, 1, 6) = "Action"

Clause(87, 1, 1) = "Gen01v28g"
Clause(87, 1, 2) = "urdu"

Clause(87, 1, 3) = "govern"
Clause(87, 1, 4) = "VP"
Clause(87, 1, 5) = "Main verb"
Clause(87, 1, 6) = "Action"
Clause(87, 2, 1) = "-"
Clause(87, 2, 2) = "bidgat hayam uv'of ha\$amayim uvxol xaya haromeset al ha'arec"
Clause(87, 2, 3) = "over the fish of the sea and over the flying creatures of the heaven
and over all the living beings that swarm on the earth"
Clause(87, 2, 4) = "PP"
Clause(87, 2, 5) = "Complement"
Clause(87, 2, 6) = "Patient"

Clause(88, 1, 1) = "Gen01v29a"
Clause(88, 1, 2) = "vayomer"
Clause(88, 1, 3) = "and he said"
Clause(88, 1, 4) = "VP"
Clause(88, 1, 5) = "Main verb"
Clause(88, 1, 6) = "Action"
Clause(88, 2, 1) = "-"
Clause(88, 2, 2) = "elohim"
Clause(88, 2, 3) = "God"
Clause(88, 2, 4) = "NP"
Clause(88, 2, 5) = "Subject"
Clause(88, 2, 6) = "Agent"
Clause(88, 3, 1) = "-"
Clause(88, 3, 2) = "[Gen01v29a - Gen01v30b]"
Clause(88, 3, 3) = "[...]"
Clause(88, 3, 4) = "ECC"
Clause(88, 3, 5) = "Object cluster"
Clause(88, 3, 6) = "Patient"

Clause(89, 1, 1) = "Gen01v29b"
Clause(89, 1, 2) = "hineh"
Clause(89, 1, 3) = "behold"
Clause(89, 1, 4) = "ParticleP"
Clause(89, 1, 5) = "Disjunct"
Clause(89, 1, 6) = "-"
Clause(89, 2, 1) = "-"
Clause(89, 2, 2) = "natati"
Clause(89, 2, 3) = "I give"
Clause(89, 2, 4) = "VP"
Clause(89, 2, 5) = "Main verb"
Clause(89, 2, 6) = "Action"
Clause(89, 3, 1) = "-"
Clause(89, 3, 2) = "laxem"
Clause(89, 3, 3) = "to you"
Clause(89, 3, 4) = "PP"

Clause(89, 3, 5) = "IndObj"
 Clause(89, 3, 6) = "Receiver"
 Clause(89, 4, 1) = "-"
 Clause(89, 4, 2) = "et kol esev zorea zera [Gen01v29c] ve'et kol ha'ec [Gen01v29d] - Gen01v29e - (Gen01v30a:) ulxol xayat ha'arec ulxol of ha\$amayim ulxol romes al ha'arec [Gen01v30b] et kol yerek esev le'oxla"
 Clause(89, 4, 3) = "all green plants yielding seed [...] and all the tree(s) [...] - ... - and all the living beings of the earth and all the flying creatures of the heaven and all the small animals on the earth [...] and all greens plants, green plants as food"
 Clause(89, 4, 4) = "NP"
 Clause(89, 4, 5) = "Obj"
 Clause(89, 4, 6) = "Patient"

Clause(90, 1, 1) = "Gen01v29c"
 Clause(90, 1, 2) = "a\$er"
 Clause(90, 1, 3) = "which"
 Clause(90, 1, 4) = "RP"
 Clause(90, 1, 5) = "Subject"
 Clause(90, 1, 6) = "Zero"
 Clause(90, 2, 1) = "-"
 Clause(90, 2, 2) = "al pney kol ha'arec"
 Clause(90, 2, 3) = "(are) on the whole earth"
 Clause(90, 2, 4) = "PP"
 Clause(90, 2, 5) = "Copula-predicate"
 Clause(90, 2, 6) = "Location"

Clause(91, 1, 1) = "Gen01v29d"
 Clause(91, 1, 2) = "a\$er"
 Clause(91, 1, 3) = "which"
 Clause(91, 1, 4) = "RP"
 Clause(91, 1, 5) = "Conj"
 Clause(91, 1, 6) = "Zero"
 Clause(91, 2, 1) = "-"
 Clause(91, 2, 2) = "bo"
 Clause(91, 2, 3) = "in it"
 Clause(91, 2, 4) = "PP"
 Clause(91, 2, 5) = "Complement"
 Clause(91, 2, 6) = "Location"
 Clause(91, 3, 1) = "-"
 Clause(91, 3, 2) = "pri ec zorea zara"
 Clause(91, 3, 3) = "(is) fruit of seed bearing trees"
 Clause(91, 3, 4) = "NP"
 Clause(91, 3, 5) = "Subject"
 Clause(91, 3, 6) = "Zero"

Clause(92, 1, 1) = "Gen01v29e"
 Clause(92, 1, 2) = "laxem"

Clause(92, 1, 3) = "to you"
Clause(92, 1, 4) = "PP"
Clause(92, 1, 5) = "IndObj"
Clause(92, 1, 6) = "Beneficiary"
Clause(92, 2, 1) = "-"
Clause(92, 2, 2) = "yiheyeh"
Clause(92, 2, 3) = "it will be"
Clause(92, 2, 4) = "VP"
Clause(92, 2, 5) = "Main verb"
Clause(92, 2, 6) = "State"
Clause(92, 3, 1) = "-"
Clause(92, 3, 2) = "le'oxla"
Clause(92, 3, 3) = "as food"
Clause(92, 3, 4) = "PP"
Clause(92, 3, 5) = "Copula-predicate"
Clause(92, 3, 6) = "Purpose"

Clause(93, 1, 1) = "Gen01v30b"
Clause(93, 1, 2) = "a\$er"
Clause(93, 1, 3) = "which"
Clause(93, 1, 4) = "RP"
Clause(93, 1, 5) = "Conj"
Clause(93, 1, 6) = "-"
Clause(93, 2, 1) = "-"
Clause(93, 2, 2) = "bo"
Clause(93, 2, 3) = "in it"
Clause(93, 2, 4) = "PP"
Clause(93, 2, 5) = "Copula-predicate"
Clause(93, 2, 6) = "Location"
Clause(93, 3, 1) = "-"
Clause(93, 3, 2) = "nefe\$ xaya"
Clause(93, 3, 3) = "(there is) a living soul"
Clause(93, 3, 4) = "NP"
Clause(93, 3, 5) = "Subject"
Clause(93, 3, 6) = "Zero"

Clause(94, 1, 1) = "Gen01v30c"
Clause(94, 1, 2) = "vayehi"
Clause(94, 1, 3) = "and it was"
Clause(94, 1, 4) = "VP"
Clause(94, 1, 5) = "Copulative verb"
Clause(94, 1, 6) = "State"
Clause(94, 2, 1) = "-"
Clause(94, 2, 2) = "xen"
Clause(94, 2, 3) = "so"
Clause(94, 2, 4) = "AdvP"
Clause(94, 2, 5) = "Complement"

Clause(94, 2, 6) = "Manner"

Clause(95, 1, 1) = "Gen01v31a"
Clause(95, 1, 2) = "vayar"
Clause(95, 1, 3) = "and He saw"
Clause(95, 1, 4) = "VP"
Clause(95, 1, 5) = "Main verb"
Clause(95, 1, 6) = "Process"
Clause(95, 2, 1) = "-"
Clause(95, 2, 2) = "elohim"
Clause(95, 2, 3) = "God"
Clause(95, 2, 4) = "NP"
Clause(95, 2, 5) = "Subject"
Clause(95, 2, 6) = "Processed"
Clause(95, 3, 1) = "-"
Clause(95, 3, 2) = "et kol [Gen01v31b]"
Clause(95, 3, 3) = "everything [...]"
Clause(95, 3, 4) = "NP"
Clause(95, 3, 5) = "Object"
Clause(95, 3, 6) = "Patient"

Clause(96, 1, 1) = "Gen01v31b"
Clause(96, 1, 2) = "a\$er"
Clause(96, 1, 3) = "that"
Clause(96, 1, 4) = "RP"
Clause(96, 1, 5) = "Object"
Clause(96, 1, 6) = "Product"
Clause(96, 2, 1) = "-"
Clause(96, 2, 2) = "asa"
Clause(96, 2, 3) = "He made"
Clause(96, 2, 4) = "VP"
Clause(96, 2, 5) = "Main verb"
Clause(96, 2, 6) = "Action"

Clause(97, 1, 1) = "Gen01v31c"
Clause(97, 1, 2) = "vehineh"
Clause(97, 1, 3) = "and behold"
Clause(97, 1, 4) = "ParticleP"
Clause(97, 1, 5) = "Disjunct"
Clause(97, 1, 6) = "-"
Clause(97, 2, 1) = "-"
Clause(97, 2, 2) = "tov me'od"
Clause(97, 2, 3) = "(it was) very good"
Clause(97, 2, 4) = "AP"
Clause(97, 2, 5) = "Copula-predicate"
Clause(97, 2, 6) = "Quality"

Clause(98, 1, 1) = "Gen01v31d"
Clause(98, 1, 2) = "vayehi"
Clause(98, 1, 3) = "and it was"
Clause(98, 1, 4) = "VP"
Clause(98, 1, 5) = "Copulative verb"
Clause(98, 1, 6) = "State"
Clause(98, 2, 1) = "-"
Clause(98, 2, 2) = "erev"
Clause(98, 2, 3) = "evening"
Clause(98, 2, 4) = "NP"
Clause(98, 2, 5) = "Subject"
Clause(98, 2, 6) = "Zero"

Clause(99, 1, 1) = "Gen01v31e"
Clause(99, 1, 2) = "vayehi"
Clause(99, 1, 3) = "and it was"
Clause(99, 1, 4) = "VP"
Clause(99, 1, 5) = "Copulative verb"
Clause(99, 1, 6) = "State"
Clause(99, 2, 1) = "-"
Clause(99, 2, 2) = "voker"
Clause(99, 2, 3) = "morning"
Clause(99, 2, 4) = "NP"
Clause(99, 2, 5) = "Subject"
Clause(99, 2, 6) = "Zero"
Clause(99, 3, 1) = "-"
Clause(99, 3, 2) = "yom ha\$î\$î"
Clause(99, 3, 3) = "sixth day"
Clause(99, 3, 4) = "NP"
Clause(99, 3, 5) = "Attribute"
Clause(99, 3, 6) = "Quality"

Clause(100, 1, 1) = "Gen02v01a"
Clause(100, 1, 2) = "vayxullu"
Clause(100, 1, 3) = "and they were completed"
Clause(100, 1, 4) = "VP"
Clause(100, 1, 5) = "Main verb"
Clause(100, 1, 6) = "Action"
Clause(100, 2, 1) = "-"
Clause(100, 2, 2) = "ha\$amayim vaha'arec vexol cva'am"
Clause(100, 2, 3) = "the heaven and the earth and all their warriors"
Clause(100, 2, 4) = "NP"
Clause(100, 2, 5) = "Subject"
Clause(100, 2, 6) = "Patient"

Clause(101, 1, 1) = "Gen02v02a"
Clause(101, 1, 2) = "vayxal"

Clause(101, 1, 3) = "and He finished"
 Clause(101, 1, 4) = "VP"
 Clause(101, 1, 5) = "Main verb"
 Clause(101, 1, 6) = "Action"
 Clause(101, 2, 1) = "-"
 Clause(101, 2, 2) = "elohim"
 Clause(101, 2, 3) = "God"
 Clause(101, 2, 4) = "NP"
 Clause(101, 2, 5) = "Subject"
 Clause(101, 2, 6) = "Agent"
 Clause(101, 3, 1) = "-"
 Clause(101, 3, 2) = "bayom ha\$vi'i"
 Clause(101, 3, 3) = "on the seventh day"
 Clause(101, 3, 4) = "PP"
 Clause(101, 3, 5) = "Adjunct"
 Clause(101, 3, 6) = "Time"
 Clause(101, 4, 1) = "-"
 Clause(101, 4, 2) = "melaxto [Gen02v02b]"
 Clause(101, 4, 3) = "his work [...]"
 Clause(101, 4, 4) = "NP"
 Clause(101, 4, 5) = "Object"
 Clause(101, 4, 6) = "Patient"

Clause(102, 1, 1) = "Gen02v02b"
 Clause(102, 1, 2) = "a\$er"
 Clause(102, 1, 3) = "that"
 Clause(102, 1, 4) = "RP"
 Clause(102, 1, 5) = "Object"
 Clause(102, 1, 6) = "Product"
 Clause(102, 2, 1) = "-"
 Clause(102, 2, 2) = "asa"
 Clause(102, 2, 3) = "He made"
 Clause(102, 2, 4) = "VP"
 Clause(102, 2, 5) = "Main verb"
 Clause(102, 2, 6) = "Action"

Clause(103, 1, 1) = "Gen02v02c"
 Clause(103, 1, 2) = "vayi\$bot"
 Clause(103, 1, 3) = "and He stopped"
 Clause(103, 1, 4) = "VP"
 Clause(103, 1, 5) = "Main verb"
 Clause(103, 1, 6) = "Action"
 Clause(103, 2, 1) = "-"
 Clause(103, 2, 2) = "bayom ha\$vi'i"
 Clause(103, 2, 3) = "on the seventh day"
 Clause(103, 2, 4) = "PP"
 Clause(103, 2, 5) = "Adjunct"

Clause(103, 2, 6) = "Time"
 Clause(103, 3, 1) = "-"
 Clause(103, 3, 2) = "mikol melaxto [Gen02v02d]"
 Clause(103, 3, 3) = "with all his work [...]"
 Clause(103, 3, 4) = "PP"
 Clause(103, 3, 5) = "Complement"
 Clause(103, 3, 6) = "Patient"

Clause(104, 1, 1) = "Gen02v02d"
 Clause(104, 1, 2) = "a\$er"
 Clause(104, 1, 3) = "which"
 Clause(104, 1, 4) = "RP"
 Clause(104, 1, 5) = "Object"
 Clause(104, 1, 6) = "Product"
 Clause(104, 2, 1) = "-"
 Clause(104, 2, 2) = "asa"
 Clause(104, 2, 3) = "He made"
 Clause(104, 2, 4) = "VP"
 Clause(104, 2, 5) = "Main verb"
 Clause(104, 2, 6) = "Action"

Clause(105, 1, 1) = "Gen02v03a"
 Clause(105, 1, 2) = "vayvarex"
 Clause(105, 1, 3) = "and He blessed"
 Clause(105, 1, 4) = "VP"
 Clause(105, 1, 5) = "Main verb"
 Clause(105, 1, 6) = "Action"
 Clause(105, 2, 1) = "-"
 Clause(105, 2, 2) = "elohim"
 Clause(105, 2, 3) = "God"
 Clause(105, 2, 4) = "NP"
 Clause(105, 2, 5) = "Subject"
 Clause(105, 2, 6) = "Agent"
 Clause(105, 3, 1) = "-"
 Clause(105, 3, 2) = "et yom ha\$vi'i"
 Clause(105, 3, 3) = "the seventh day"
 Clause(105, 3, 4) = "NP"
 Clause(105, 3, 5) = "Object"
 Clause(105, 3, 6) = "Patient"

Clause(106, 1, 1) = "Gen02v03b"
 Clause(106, 1, 2) = "vaykade\$"
 Clause(106, 1, 3) = "and He consecrated"
 Clause(106, 1, 4) = "VP"
 Clause(106, 1, 5) = "Main verb"
 Clause(106, 1, 6) = "Action"
 Clause(106, 2, 1) = "-"

Clause(106, 2, 2) = "oto"
 Clause(106, 2, 3) = "it"
 Clause(106, 2, 4) = "NP"
 Clause(106, 2, 5) = "Object"
 Clause(106, 2, 6) = "Patient"
 Clause(106, 3, 1) = "-"
 Clause(106, 3, 2) = "[Gen02v03c - Gen02v03d]"
 Clause(106, 3, 3) = "[...]"
 Clause(106, 3, 4) = "ECC"
 Clause(106, 3, 5) = "Adjunct"
 Clause(106, 3, 6) = "Reason"

Clause(107, 1, 1) = "Gen02v03c"
 Clause(107, 1, 2) = "ki"
 Clause(107, 1, 3) = "because"
 Clause(107, 1, 4) = "ConjP"
 Clause(107, 1, 5) = "Conj"
 Clause(107, 1, 6) = "-"
 Clause(107, 2, 1) = "-"
 Clause(107, 2, 2) = "vo"
 Clause(107, 2, 3) = "in it"
 Clause(107, 2, 4) = "PP"
 Clause(107, 2, 5) = "Adjunct"
 Clause(107, 2, 6) = "Time"
 Clause(107, 3, 1) = "-"
 Clause(107, 3, 2) = "\$avat"
 Clause(107, 3, 3) = "He stopped"
 Clause(107, 3, 4) = "VP"
 Clause(107, 3, 5) = "Main verb"
 Clause(107, 3, 6) = "Action"
 Clause(107, 4, 1) = "-"
 Clause(107, 4, 2) = "mikol melaxto [Gen02v03d]"
 Clause(107, 4, 3) = "with all his work [...]"
 Clause(107, 4, 4) = "PP"
 Clause(107, 4, 5) = "Complement"
 Clause(107, 4, 6) = "Patient"

Clause(108, 1, 1) = "Gen02v03d"
 Clause(108, 1, 2) = "a\$er"
 Clause(108, 1, 3) = "which"
 Clause(108, 1, 4) = "RP"
 Clause(108, 1, 5) = "Object"
 Clause(108, 1, 6) = "Product"
 Clause(108, 2, 1) = "-"
 Clause(108, 2, 2) = "bara"
 Clause(108, 2, 3) = "He created"
 Clause(108, 2, 4) = "VP"

Clause(108, 2, 5) = "Main verb"
Clause(108, 2, 6) = "Action"
Clause(108, 3, 1) = "-"
Clause(108, 3, 2) = "elohim"
Clause(108, 3, 3) = "God"
Clause(108, 3, 4) = "NP"
Clause(108, 3, 5) = "Subject"
Clause(108, 3, 6) = "Agent"
Clause(108, 4, 1) = "-"
Clause(108, 4, 2) = "la'asot"
Clause(108, 4, 3) = "by making"
Clause(108, 4, 4) = "PP"
Clause(108, 4, 5) = "Adjunct"
Clause(108, 4, 6) = "Manner"

Form1.Show
End Sub

Addendum B: Source code of Chapter 3

Option Explicit

```
Dim sel1 As String
Dim count1 As Integer
Dim count2 As Integer
Dim count3 As Integer
Dim count4 As Integer
Dim count5 As Integer
Dim count6 As Integer
Dim count7 As Integer
Dim resume1 As Integer
Dim searchinput As String
Dim found As Boolean
Dim clauseno As Integer
Dim counttemp As Integer
Dim vlaggie As Integer
Dim clausepk As String
Dim param1 As String
Dim pause1 As String
```

```
Private Sub Command1_Click() 'Show clause detail
Text2 = ""
Text3 = ""
count6 = -5
resume1 = 1
```

```
clauseno = Val(Text1.Text)
```

```
If clauseno < 1 Then
  Label26 = "Clause " & clauseno & " does not exist."
Else
  Label26 = ""
  If clauseno <= 108 Then
    count1 = clauseno
    Call Display
```

```
Else: Label26 = "Clause " & clauseno & " does not exist."
End If
End If
End Sub
```

```
Private Sub Command2_Click() 'Scroll forward
```

```
Text2 = ""
```

```
Text3 = ""  
count6 = -5  
resume1 = 1
```

```
If count1 < 108 Then  
count1 = count1 + 1  
Text1 = Str(count1)  
Label26.Caption = ""  
Else  
Label26.Caption = "You have reached the last clause."  
End If
```

```
Call Display
```

```
End Sub
```

```
Private Sub Command3_Click() 'Scroll backward  
Text2 = ""  
Text3 = ""  
count6 = -5  
resume1 = 1
```

```
If count1 > 1 Then  
count1 = count1 - 1  
Text1 = Str(count1)  
Label26.Caption = ""  
Else  
count1 = 1  
Label26.Caption = "You have reached the first clause."  
Text1 = Str(count1)  
End If
```

```
Call Display
```

```
End Sub
```

```
Private Sub Command4_Click() 'Search clause on verse number
```

```
Text3 = ""  
count6 = -5  
resume1 = 1
```

```
Label26 = ""
```

```
clauseno = 0  
clausepk = Text2.Text
```

```
counttemp = count1
```

```
For count1 = 1 To 108  
  If Clause(count1, 1, 1) = clausepk Then  
    clauseno = count1  
    Text1.Text = clauseno  
    Exit For  
  End If  
Next count1
```

```
If clauseno = 0 Then  
  Label26 = "Clause " & clausepk & " does not exist."  
  count1 = counttemp  
Else: Call Display  
End If
```

```
End Sub
```

```
Private Sub Command5_Click() 'Search on one parameter
```

```
Dim pos As Integer
```

```
Label26 = ""  
Text2 = ""
```

```
If resume1 = 0 Then  
  resume1 = 1  
End If
```

```
vlaggie = 0  
clauseno = 0  
param1 = Text3.Text  
counttemp = count1
```

```
If searchinput <> param1 Then  
  resume1 = 1  
End If
```

```
If param1 <> "" Then  
  For count4 = resume1 To 108  
    vlaggie = 0  
    For count2 = 1 To 4  
      If vlaggie = 1 Then  
        Exit For  
      End If  
      For count3 = 1 To 6
```

```
pos = InStr(1, Clause(count4, count2, count3), Text3.Text, 1)
```

```
If pos > 0 Then  
vlaggie = 1  
clauseno = count4  
count1 = count4  
Text1.Text = clauseno  
Call Display
```

```
resume1 = count4 + 1  
searchinput = param1  
Exit Sub
```

```
Exit For
```

```
Else  
End If  
Next count3  
Next count2  
Next count4
```

```
If clauseno = 0 Then  
Label26 = "Clause containing '" & param1 & "' does not exist."  
count1 = counttemp  
Else: Label26 = "There are no more clauses with '" & param1 & "'"  
End If
```

```
Else: Label26 = "First enter a string in search text box"  
End If
```

```
End Sub
```

```
Private Sub Command7_Click() 'Scroll through slice of syntactic frameworks
```

```
count6 = 0  
Label26.Caption = ""  
resume1 = 1
```

```
Text1.Text = ""  
Text2.Text = ""  
Text3.Text = ""
```

```
If count7 = 0 Then  
count7 = -5  
End If
```

```
If count7 < 103 Then
```

```
count7 = count7 + 6
TextLabel1.Text = Clause(count7, 1, 1) & " (" & count7 & ")"
TextLabel27.Text = Clause(count7, 1, 5)
TextLabel33.Text = Clause(count7, 2, 5)
TextLabel34.Text = Clause(count7, 3, 5)
TextLabel35.Text = Clause(count7, 4, 5)
TextLabel7.Text = Clause(count7, 5, 5)

TextLabel28.Text = Clause(count7 + 1, 1, 1) & " (" & count7 + 1 & ")"
TextLabel2.Text = Clause(count7 + 1, 1, 5)
TextLabel8.Text = Clause(count7 + 1, 2, 5)
TextLabel14.Text = Clause(count7 + 1, 3, 5)
TextLabel20.Text = Clause(count7 + 1, 4, 5)
TextLabel13.Text = Clause(count7 + 1, 5, 5)

TextLabel29.Text = Clause(count7 + 2, 1, 1) & " (" & count7 + 2 & ")"
TextLabel3.Text = Clause(count7 + 2, 1, 5)
TextLabel9.Text = Clause(count7 + 2, 2, 5)
TextLabel15.Text = Clause(count7 + 2, 3, 5)
TextLabel21.Text = Clause(count7 + 2, 4, 5)
TextLabel19.Text = Clause(count7 + 2, 5, 5)

Label30.Caption = Clause(count7 + 3, 1, 1) & " (" & count7 + 3 & ")"
Label4.Caption = Clause(count7 + 3, 1, 5)
Label10.Caption = Clause(count7 + 3, 2, 5)
Label16.Caption = Clause(count7 + 3, 3, 5)
Label22.Caption = Clause(count7 + 3, 4, 5)
Label36.Caption = Clause(count7 + 3, 5, 5)

Label31.Caption = Clause(count7 + 4, 1, 1) & " (" & count7 + 4 & ")"
Label5.Caption = Clause(count7 + 4, 1, 5)
Label11.Caption = Clause(count7 + 4, 2, 5)
Label17.Caption = Clause(count7 + 4, 3, 5)
Label23.Caption = Clause(count7 + 4, 4, 5)
Label37.Caption = Clause(count7 + 4, 5, 5)

Label32.Caption = Clause(count7 + 5, 1, 1) & " (" & count7 + 5 & ")"
Label6.Caption = Clause(count7 + 5, 1, 5)
Label12.Caption = Clause(count7 + 5, 2, 5)
Label18.Caption = Clause(count7 + 5, 3, 5)
Label24.Caption = Clause(count7 + 5, 4, 5)
Label38.Caption = Clause(count7 + 5, 5, 5)

Else
Label26.Caption = "You have reached the last clause."
End If
```

End Sub

```
Private Sub Command8_Click() 'Scroll through slice of semantic frameworks
```

```
Text1.Text = ""
```

```
Text2.Text = ""
```

```
Text3.Text = ""
```

```
Label26.Caption = ""
```

```
resume1 = 1
```

```
count7 = 0
```

```
If count6 = 0 Then
```

```
count6 = -5
```

```
End If
```

```
If count6 < 103 Then
```

```
count6 = count6 + 6
```

```
TextLabel1.Text = Clause(count6, 1, 1) & " (" & count6 & ")"
```

```
TextLabel27.Text = Clause(count6, 1, 6)
```

```
TextLabel33.Text = Clause(count6, 2, 6)
```

```
TextLabel34.Text = Clause(count6, 3, 6)
```

```
TextLabel35.Text = Clause(count6, 4, 6)
```

```
TextLabel7.Text = Clause(count6, 5, 6)
```

```
TextLabel28.Text = Clause(count6 + 1, 1, 1) & " (" & count6 + 1 & ")"
```

```
TextLabel2.Text = Clause(count6 + 1, 1, 6)
```

```
TextLabel8.Text = Clause(count6 + 1, 2, 6)
```

```
TextLabel14.Text = Clause(count6 + 1, 3, 6)
```

```
TextLabel20.Text = Clause(count6 + 1, 4, 6)
```

```
TextLabel13.Text = Clause(count6 + 1, 5, 6)
```

```
TextLabel29.Text = Clause(count6 + 2, 1, 1) & " (" & count6 + 2 & ")"
```

```
TextLabel3.Text = Clause(count6 + 2, 1, 6)
```

```
TextLabel9.Text = Clause(count6 + 2, 2, 6)
```

```
TextLabel15.Text = Clause(count6 + 2, 3, 6)
```

```
TextLabel21.Text = Clause(count6 + 2, 4, 6)
```

```
TextLabel19.Text = Clause(count6 + 2, 5, 6)
```

```
Label30.Caption = Clause(count6 + 3, 1, 1) & " (" & count6 + 3 & ")"
```

```
Label4.Caption = Clause(count6 + 3, 1, 6)
```

```
Label10.Caption = Clause(count6 + 3, 2, 6)
```

```
Label16.Caption = Clause(count6 + 3, 3, 6)
```

```
Label22.Caption = Clause(count6 + 3, 4, 6)
```

```
Label36.Caption = Clause(count6 + 3, 5, 6)
```

```
Label31.Caption = Clause(count6 + 4, 1, 1) & " (" & count6 + 4 & ")"
```

```
Label5.Caption = Clause(count6 + 4, 1, 6)
```



```
Label11.Caption = Clause(count6 + 4, 2, 6)  
Label17.Caption = Clause(count6 + 4, 3, 6)  
Label23.Caption = Clause(count6 + 4, 4, 6)  
Label37.Caption = Clause(count6 + 4, 5, 6)
```

```
Label32.Caption = Clause(count6 + 5, 1, 1) & " (" & count6 + 5 & ")"  
Label6.Caption = Clause(count6 + 5, 1, 6)  
Label12.Caption = Clause(count6 + 5, 2, 6)  
Label18.Caption = Clause(count6 + 5, 3, 6)  
Label24.Caption = Clause(count6 + 5, 4, 6)  
Label38.Caption = Clause(count6 + 5, 5, 6)
```

Else

```
Label26.Caption = "You have reached the last clause."
```

End If

End Sub

Sub Display() 'Subroutine: displays clause detail in Form 1

```
count6 = -5
```

```
TextLabel27.Text = "Phrase 1"  
TextLabel33.Text = "Phrase 2"  
TextLabel34.Text = "Phrase 3"  
TextLabel35.Text = "Phrase 4"  
TextLabel7.Text = "Phrase 5"
```

```
TextLabel1.Text = Clause(count1, 1, 1)  
TextLabel28.Text = "Phonetic transcription"  
TextLabel29.Text = "Translation"  
Label30.Caption = "Phrase type"  
Label31.Caption = "Syntactic function"  
Label32.Caption = "Semantic function"
```

```
TextLabel2.Text = Clause(count1, 1, 2)  
TextLabel3.Text = Clause(count1, 1, 3)  
Label4.Caption = Clause(count1, 1, 4)  
Label5.Caption = Clause(count1, 1, 5)  
Label6.Caption = Clause(count1, 1, 6)
```

```
TextLabel8.Text = Clause(count1, 2, 2)  
TextLabel9.Text = Clause(count1, 2, 3)  
Label10.Caption = Clause(count1, 2, 4)  
Label11.Caption = Clause(count1, 2, 5)  
Label12.Caption = Clause(count1, 2, 6)
```

```
TextLabel14.Text = Clause(count1, 3, 2)
```

```
TextLabel15.Text = Clause(count1, 3, 3)  
Label16.Caption = Clause(count1, 3, 4)  
Label17.Caption = Clause(count1, 3, 5)  
Label18.Caption = Clause(count1, 3, 6)
```

```
TextLabel20.Text = Clause(count1, 4, 2)  
TextLabel21.Text = Clause(count1, 4, 3)  
Label22.Caption = Clause(count1, 4, 4)  
Label23.Caption = Clause(count1, 4, 5)  
Label24.Caption = Clause(count1, 4, 6)
```

```
TextLabel13.Text = Clause(count1, 5, 2)  
TextLabel19.Text = Clause(count1, 5, 3)  
Label36.Caption = Clause(count1, 5, 4)  
Label37.Caption = Clause(count1, 5, 5)  
Label38.Caption = Clause(count1, 5, 6)
```

```
End Sub
```

Addendum C: Phonetic transcription of the Hebrew alphabet

The following symbols have been used to render the Hebrew text in the Genesis 1:1-2:3 databank (see discussion below):

| Symbol | Sound | Corresponding Hebrew letter |
|--------|--|--|
| \$ | <u>sh</u> ark | shin |
| ' | co-operation (glottal stop before 2 nd o) | alef and ayin in middle of word at beginning of new syllable |
| A | <u>f</u> ather | patach, qamets, chatef patach |
| B | <u>b</u> ig | bet with dagesh |
| C | <u>t</u> sar | tsadeh |
| D | <u>d</u> ark | dalet |
| E | <u>b</u> ed | segol, tsereh, chatef segol, shva (when pronounced) |
| F | <u>f</u> ever | peh without dagesh |
| G | <u>G</u> holf | gimmel |
| H | <u>h</u> en | heh (as consonant) |
| I | <u>k</u> itten | chireq |
| k | <u>k</u> ick | kaf with dagesh, qof |
| l | <u>L</u> et | lamed |
| m | <u>m</u> eat | mem |
| n | <u>n</u> ever | nun |
| o | <u>b</u> order | cholem, qamets chatuf, chatef qamets |
| p | <u>p</u> ost | peh with dagesh |
| r | <u>R</u> ed | resh |
| s | <u>s</u> alt | samekh, sin |
| t | <u>T</u> ea | tet, taw |
| u | <u>t</u> ooth | kibbutz, shureq |
| v | <u>v</u> ery | bet without dagesh, waw |
| x | <u>B</u> ach | chet, kaf without dagesh |
| y | <u>y</u> ou | yod |
| z | <u>z</u> ero | zayin |

The transcription is a rough phonetic rendering and not a precise transliteration. The pronunciation of Modern Hebrew (Ivrit) has been followed. (For similar transcription systems see Jacobs, 2003: 18-22, and T. Sasaki, 2004: 34.) Vowel letters (*matres*

lectionis) are not pronounced as consonants and are therefore not transcribed. No differentiation is made between theoretically long and short vowels. No differentiation is made between *kaf* and *qof*, between *waw* and fricative *bet*, between *samekh* and *sin*, and between plosive *alef* and *ayin*. The original Hebrew text, therefore, cannot be reconstructed from this simplified (phonetic) rendering, because various Hebrew letters and points may be represented here by a single Roman letter. Consequently, the symbols are presented here in the order of the Roman alphabet.

Addendum D: Identification of phrase types

Phrases are regarded as morpho-syntactic elements. Morphologically speaking, they refer to word groups, usually a combination of two or more words which functions as a unit in a clause. It consists of a head and a modifier (cf. Waltke & O'Connor, 1990: 68; Van der Merwe et al., 1999: 362). In addition, the phrase concept is also used to refer to a unit that serves as a syntactic constituent in a clause (cf. Waltke & O'Connor, 1990: 692; Van der Merwe et al., 1999: 59-62), thus having form and function (Du Plessis, 1982: 35). A noun phrase, for example, often is the subject or object of a clause, and a verb phrase the predicate. Since a single noun may be regarded as a noun phrase, and a single verb as a verb phrase, all constituents are regarded as phrases in this databank, even if they consist of one word only. Therefore, the concept is also used for adverb phrases, adjective phrases, conjunction phrases, relative phrases, particle phrases and relative phrases. This extended use of the phrase concept ensures consistency in the analysis of this language module. The following phrase types have been identified in the Genesis 1:1-2:3 databank:¹

¹ Compare T. Sasaki's (2004: 25) word groups: nc = noun clause; adjc = adjective clause; advp = adverb clause; np = noun phrase; adjp = adjective phrase; advp = adverb phrase; vp = verb phrase; prepp = prepositional phrase.

| | |
|-----------|---|
| AdvP | Adverb phrase: an adverb or word group which has an adverb as head. ² |
| AP | Adjective phrase: an adjective or word group with an adjective as head. ³ |
| ConjP | Conjunction phrase: a conjunction, or a word group consisting of a preposition and a conjunction/noun, functioning as a conjunction. ⁴ |
| EC | Embedded clause: a complete clause functioning as a constituent in another clause. ⁵ |
| ECC | Embedded clause cluster: a set of clauses functioning as a constituent in another clause. ⁶ |
| NP | Noun phrase: a noun or word group with a noun as head. ⁷ |
| ParticleP | Particle phrase: a simple or compound particle. ⁸ |
| PP | Preposition phrase: A word group consisting of a preposition and its complement. ⁹ |
| RP | Relative (pronoun) phrase: a single relative pronoun or compound relative pronoun. ¹⁰ |
| VP | Verb phrase: A word or word group with a verb as head. ¹¹ |

² Cf. Du Plessis (1982: 97-101) and Waltke & O'Connor (1990: 68, 128).

³ Cf. Du Plessis (1982: 91-96), Waltke & O'Connor (1990: 68, 227) and Van der Merwe et al. (1999: 362).

⁴ Cf. Gesenius et al. (1976: 306).

⁵ Cf. Dik (1997a: 441-442).

⁶ This is an extension of the embedded clause concept to cover cases where more than one clause is embedded as a single constituent.

⁷ Cf. Du Plessis (1982: 38-47), Waltke & O'Connor (1990: 68) and Van der Merwe et al. (1999: 361, 362).

⁸ Cf. Gesenius et al. (1976: 294).

⁹ Cf. Du Plessis (1982: 60-65), Waltke & O'Connor (1990: 68) and Van der Merwe et al. (1999:362).

¹⁰ Cf. Gesenius et al. (1976: 445-446).

¹¹ Cf. Du Plessis (1982: 66-90), Waltke & O'Connor (1990: 68) and Van der Merwe et al. (1999:362).

Addendum E: Syntactic functions

Syntactic functions refers to the formal, grammatical roles and relations in clauses. "Syntax describes the form of clauses and sentences. The **syntactic function** of an element in a clause is the **formal relation** of that element to the other elements" (Kroeze, 2000a: 99). The concept of syntactic function is used as an umbrella term for elements usually called "subject, direct object, indirect object, adjunct, copulative predicate, etc." (Van der Merwe et al., 1999: 239). According to Dik (1997a: 26), syntactic functions "specify the perspective from which a State of Affairs is presented in a linguistic expression". The definitions below should be regarded as a reference system, built, by the author, on nuggets of syntactic information mined from various sources (cf. Kroeze 2000a: 330-334). Syntactic functions that were used in the Genesis 1:1-2:3a databank are marked with an asterisk.

| | Name | Definition |
|----|-----------|---|
| 1. | Subject* | The subject is that element in a clause which determines the person, gender and number of the main verb , or the gender and number of the copula-predicate if this is a noun, adjective or participle. ¹ It is that part of the clause about which the predicate proclaims something. ² A noun, noun phrase, verb phrase or a clause can serve as subject. Rarely, even a preposition phrase may serve as subject. ³ |
| 2. | Predicate | The predicate is that element in a clause which is governed by the subject (in terms of person, gender and number) and which tells something about the subject. ⁴ It consists of a main verb with or without complements and adjuncts. ⁵ It can also consist of a copula and copula-predicate. In BH the copula is often not |

¹ Cf. Gesenius et al. (1976: 462-467).

² Cf. Waltke & O'Connor (1990: 71).

³ Cf. Waltke & O'Connor (1990: 69-70).

⁴ Cf. Waltke & O'Connor (1990: 71).

⁵ Cf. Waltke & O'Connor (1990: 69, 169); Van der Merwe et al. (1999: 60-62).

⁶ Cf. Joüon & Muraoka (1991: 564-577); Waltke & O'Connor (1990: 71).

| | | |
|-------|-------------------|---|
| | | expressed. ⁶ |
| 2.1 | Main verb* | The main verb is a verb which functions as the main element of the predicate . ⁷ The following kinds of verbs can function as main verbs. ⁸ |
| 2.1.1 | Transitive verb | A transitive verb takes or supposes a noun or noun phrase as direct object . ⁹ |
| 2.1.2 | Intransitive verb | An intransitive verb does not (and cannot) take a direct object . ¹⁰ |
| 2.1.3 | Preposition verb | A preposition verb takes a preposition phrase as complement . ¹¹ |
| 2.1.4 | Copulative verb* | A copulative verb (<i>haya</i> : <i>is, was, were</i> , etc.) takes a noun, noun phrase, adjective, adjective phrase, adverb, adverb phrase or preposition phrase as complement . (<i>haya</i> is often omitted in BH.) ¹² |
| 2.2 | Copula | The copula is that element in a clause that connects the subject and copula-predicate . In BH the particles <i>ye\$, ayin/en</i> , the independent personal pronouns and the copulative verb <i>haya</i> can serve as copula, but it is often omitted. ¹³ |
| 2.3 | Copula-predicate* | The copula-predicate is the complement of the copula . (When the copula is omitted, the copula-predicate forms the whole predicate.) A |

⁷ Cf. Du Plessis (1982: 66-69); Van der Merwe et al. (1999: 159-160, 165, 168).

⁸ Cf. Du Plessis (1982: 78).

⁹ Cf. Van der Merwe et al. (1999: 242-243, 246, 367); Waltke & O'Connor (1990: 694): "a verb that (usually) governs a (direct) object".

¹⁰ Cf. Van der Merwe et al. (1999: 360), Du Plessis (1982: 80), Waltke & O'Connor (1990: 691): "a verb that (usually) does not govern an object".

¹¹ Cf. Waltke & O'Connor (1990: 163, 165, 169-170, 221-222, 240, 275, 606, 690); Du Plessis (1982: 82-84); Gesenius et al. (1976: 378-384).

¹² Cf. Du Plessis (1982: 85-86); Waltke & O'Connor (1990: 131, 690).

¹³ Cf. Waltke & O'Connor (1990: 71-72, 131, 228, 297, 690).

| | | |
|-------|---------------------------|---|
| | | noun, noun phrase, adjective, adjective phrase, participle, participle phrase, ¹⁴ adverb, adverb phrase or preposition phrase can serve as copula-predicate. ¹⁵ |
| 2.4 | Complement* | A complement is an obligatory, non-verbal element in the predicate which is selected by the verb . ¹⁶ |
| 2.4.1 | Direct object (Object*) | The direct object is the complement of an active, transitive verb . In a passive transformation the object of the active clause becomes the subject of the passive clause. A noun, noun phrase, verb, preposition phrase or even a clause can serve as object. |
| | Object clause* | An object clause* is a clause that functions as a direct object. |
| | Object cluster* | An object cluster* is a group of clauses that functions as a direct object. |
| 2.4.2 | Indirect object (IndObj*) | The indirect object is the third argument or second complement of the main verb . It can occur only if there is also a direct object. In BH the indirect object cannot be transformed into the subject of a passive clause - compare, however, this phenomenon in English: "We were given the book". A pronominal suffix, noun, noun phrase or preposition phrase can serve as indirect object. The indirect object follows the direct object in unmarked word order, except when the indirect object is a |

¹⁴ The participle is regarded as a verbal adjective (Waltke & O'Connor, 1990: 612, 624; Gesenius et al., 1976: 355-362). Morphologically and syntactically, it behaves primarily like an adjective.

¹⁵ Cf. Du Plessis (1982: 86); Van der Merwe et al. (1999: 234, 356); Waltke & O'Connor (1990: 71); Joüon & Muraoka (1991: 562).

¹⁶ Cf. Waltke & O'Connor (1990: 163); Van der Merwe et al. (1999: 241-244, 351, 355).

¹⁷ Cf. Van der Merwe et al. (1999: 173, 174, 240, 254, 255, 275, 359, 368); Waltke & O'Connor (1990: 169, 193, 206); Joüon & Muraoka (1991: 442, 487, 490); Gesenius et al. (1976: 369, 370).

| | | |
|-------|-------------------|--|
| | | preposition with suffix. ¹⁷ |
| 2.4.3 | Other complements | These are other obligatory non-verbal elements in the predicate , for example the complements of certain intransitive verbs like verbs of being full, living, moving . These complements cannot become the subject of a passive clause. A noun, noun phrase or preposition phrase can serve as complement. ¹⁸ |
| 2.4.4 | Copula-predicate* | See 2.3. |
| 2.5 | Adjunct* | An adjunct is an optional, non-verbal element in the predicate . It is added to, but not selected by the verb. It gives optional, additional information. It can be omitted without changing the classification of the verb, without making the clause ungrammatical or senseless, and without changing the meaning of the clause radically. An adverb, adverb phrase, noun, noun phrase, preposition phrase, as well as an adverbial clause, can serve as adjunct. ¹⁹ |
| 3. | Attribute* | An attribute (or adjectival modifier) is a word, phrase or clause that qualifies a noun . An adjective, adjective phrase, noun, noun phrase, adverb, adverb phrase, numeral, preposition phrase or relative clause can serve as attribute. ²⁰ |
| 4. | Disjunct* | These are elements which are not connected with any of the elements in the clause , but which are loosely connected to the whole clause . They may also be called <i>clause border adjuncts</i> (Afrikaans: "sinsrandadjunkte"), or |

¹⁸ Cf. Gesenius et al. (1976: 369-372); Van der Merwe et al. (1999: 244); Waltke & O'Connor (1990: 173-177); Joüon & Muraoka (1991: 455-461).

¹⁹ Cf. Van der Merwe et al. (1999: 241, 244-245, 351); Waltke & O'Connor (1990: 163, 169-173; 689); Du Plessis (1982: 97-103).

²⁰ Cf. Van der Merwe et al. (1999: 57, 229, 232-233, 266-270, 354); Waltke & O'Connor (1990: 255-260, 689); Gesenius et al. (1976: 414-419, 423-437); Du Plessis (1982: 48-58); Dik (1997a: 151).

| | | |
|-----|--------------------------|---|
| | | <i>sentence adjuncts</i> or <i>extra-clausal constituents</i> . ²¹ |
| 4.1 | Interjection/ Modal word | An interjection is an isolated element which is not connected to any of the other elements in the clause, e.g. an exclamation particle. ²² |
| 4.2 | Discourse marker | A discourse marker is an isolated element which gives prominence to the sentence in the wider context. ²³ |
| 4.3 | Dislocative | Any element of a clause may be marked as the topic of the clause by moving it from its usual place to precede the rest of the clause. It may even be separated from the rest of the clause by the <i>vav</i> conjunction. Its empty place in the clause may be filled by a pronoun or adverb referring to the dislocated element. ²⁴ |
| 4.4 | Addressee | The addressee is the person to whom a clause is addressed. It is usually a common noun or proper noun. In BH the addressee is often marked by the article <i>ha-</i> if it is a common |

²¹ Cf. Du Plessis (1982: 100); Dik (1997b: 379-407). "In linguistics, a **disjunct** is a type of adjunct that expresses information that is not considered essential to the sentence it appears in, but which is considered to be the speaker's or writer's attitude towards, or descriptive statement of, the propositional content of the sentence.... More generally, the term *disjunct* can be used to refer to any sentence element that is not fully integrated into the clausal structure of the sentence. Such elements usually appear peripherally (at the beginning or end of the sentence) and are set off from the rest of the sentence by a comma (in writing) and a pause (in speech). A specific type of disjunct is the *sentence adverb* (or sentence adverbial), which modifies a sentence, or a clause within a sentence, to convey the mood, attitude or sentiments of the speaker, rather than an adverb modifying a verb, an adjective or another adverb within a sentence" (Disjunct (linguistics), 2007).

²² Cf. Van der Merwe et al. (1999: 309-311, 334-335); Waltke & O'Connor (1990: 674-685).

²³ Cf. Van der Merwe et al. (1999: 328-333).

²⁴ Cf. Van der Merwe et al. (1999: 339); Waltke & O'Connor (1990: 128-129); Joüon & Muraoka (1991: 586-588); Gesenius et al. (1976: 457-458).

²⁵ Cf. Van der Merwe et al. (1999: 189, 249).

| | | |
|-----|-------------------------|--|
| | | noun. ²⁵ |
| 5. | Conjunction (Conj*) | A conjunct is a particle which connects clauses or elements in clauses. ²⁶ |
| 5.1 | Co-ordinate conjunction | A co-ordinate conjunction connects two main clauses . Co-ordinate conjunctions are also used to connect elements in a phrase or clause. ²⁷ |
| 5.2 | Subordinate conjunction | A subordinate conjunction connects a main clause with a subordinate clause . ²⁸ |
| 5.3 | Relative particle | The relative particle in BH is basically only a conjunction, but it can also fulfil a syntactic function in the relative clause. It connects the whole relative clause as an attribute to one of the nouns in the main clause. (All the other conjunctions are unconnected with regard to the subordinate clause, and they connect this whole clause as one of the syntactic elements in the main clause, e.g. subject, object, adjunct.) The relative particle can also be used independently, i.e. without an antecedent, and such a relative clause fulfils one of the syntactic functions in the main clause, e.g. subject, object, etc. ²⁹ |

²⁶ Cf. Van der Merwe et al. (1999: 294-305).

²⁷ Cf. Van der Merwe et al. (1999: 294); Waltke & O'Connor (1990: 648-655).

²⁸ Cf. Waltke & O'Connor (1990: 623-646).

²⁹ Cf. Waltke & O'Connor (1990: 330-340).

Addendum F: Semantic functions

Semantic functions refer to the logical roles and relations in clauses (structural semantics). According to Dik (1997a: 26) semantic functions "specify the roles which the referents of the terms involved play within the State of Affairs designated by the predication in which these terms occur".

The definitions provided below are quoted or adapted from Dik (1997a: 114, 118-121, 214, 229-232, 243-245). Compare Kroeze (1996; 2000a: 335-337; 2003) for more detail regarding the applicability of these concepts to Biblical Hebrew.

Semantic clause types (action, position, process and state) refer to the types of whole predications and are, strictly speaking, not semantic functions, but are identified in this project in the same language module to avoid another sparse dimension.

Semantic functions that were used in the Genesis 1:1-2:3 databank are marked with an asterisk.

| | Name | Definition |
|---|-------------|--|
| Predication types | | |
| 1. | Action* | A dynamic and controlled event. |
| 2. | Position* | A non-dynamic, controlled situation. |
| 3. | Process* | A dynamic, uncontrolled event. |
| 4. | State* | A non-dynamic, uncontrolled situation. |
| Semantic functions of the subject (of an active clause) | | |
| 5. | Agent* | The entity which controls an action. |
| 6. | Positioner* | The entity which controls a position. |
| 7. | Force | The non-controlling entity which instigates a process. |
| 8. | Processed* | The entity which undergoes a process. |
| 9. | Zero* | The entity which is primarily involved in a state. |
| Semantic functions of complements and adjuncts (of an active clause) | | |
| 10. | Patient* | The entity which is affected by an agent, positioner, force or processed (sub-function |

| | | |
|-----|--------------|---|
| | | of "goal"). |
| 11. | Product* | The entity which is effected by an agent, positioner, force or processed (sub-function of "goal"). |
| 12. | Receiver* | The entity to whom something is transferred as a possession. |
| 13. | Location* | The place where an event occurs, or where a situation takes place. |
| 14. | Direction | The entity towards which something moves or is moved. |
| 15. | Source* | The entity from which something moves or is moved. |
| 16. | Reference* | The second or third term of a relation with reference to which the relation holds. |
| 17. | Beneficiary* | The entity to the advantage or disadvantage of which an action is carried out or a position is maintained. |
| 18. | Company | The entity together with whom the predication is brought about. |
| 19. | Instrument | The tool with which an action is carried out or with which a position is maintained. |
| 20. | Manner* | The way or manner in which an action, position or process is fulfilled. |
| 21. | Speed | The amount of action or process which is fulfilled per time unit. |
| 22. | Role | The role, function, authority or capacity by virtue of which an action is executed or a position is maintained. |
| 23. | Path | The orientation or route of a movement. |
| 24. | Time* | The time at which, since when or until which a predication takes place; the duration or frequency of a predication. |
| 25. | Circumstance | A second predication taking place at the same time as the main predication. |
| 26. | Result | A second predication which is brought about as the result or consequence of the main predication. |
| 27. | Purpose* | A second predication which a controller |

| | | |
|---|------------------|--|
| | | aims to bring about with the main predication. |
| 28. | Reason* | A second predication which gives the motive of the controller of the main predication. |
| 29. | Cause | The cause for the occurrence of a predication, which is not ascribed to any of the participants. |
| Semantic functions of copula-complements | | |
| 30. | Existence | An argument expressing the mere existence of the zero-argument. |
| 31. | Identitification | An argument expressing the identity or species or the zero-argument. |
| 32. | Classification* | An argument which designates the class of which the zero-argument is a member. |
| 33. | Quality* | An argument expressing the quality or characteristic of the zero-argument. |
| 34. | Possessor | An argument expressing the owner of the zero-argument or another element. |

Addendum G: Clause cube schema

```
<?xml version="1.0"?>
<xs:schema id="Genesis1v1-2v3" targetNamespace="http://tempuri.org/Gen1_InputV15.xsd"
xmlns:mstns="http://tempuri.org/Gen1_InputV15.xsd" xmlns="http://tempuri.org/Gen1_InputV15.xsd"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-com:xml-msdata"
attributeFormDefault="qualified" elementFormDefault="qualified">

  <xs:simpleType name="WGenum">
    <xs:restriction base="xs:string">
      <xs:enumeration value="AdvP"/>
      <xs:enumeration value="AP"/>
      <xs:enumeration value="ConjP"/>
      <xs:enumeration value="EC"/>
      <xs:enumeration value="ECC"/>
      <xs:enumeration value="NP"/>
      <xs:enumeration value="ParticleP"/>
      <xs:enumeration value="PP"/>
      <xs:enumeration value="RP"/>
      <xs:enumeration value="VP"/>
      <xs:enumeration value="-"/>
    </xs:restriction>
  </xs:simpleType>

  <xs:simpleType name="synfenum">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Subject"/>
      <xs:enumeration value="Predicate"/>
      <xs:enumeration value="Main verb"/>
      <xs:enumeration value="Transitive verb"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```



```

<xs:enumeration value="Intransitive verb"/>
<xs:enumeration value="Preposition verb"/>
<xs:enumeration value="Copulative verb"/>
<xs:enumeration value="Copula"/>
<xs:enumeration value="Copula-predicate"/>
<xs:enumeration value="Complement"/>
<xs:enumeration value="Object"/>
<xs:enumeration value="Object clause"/>
<xs:enumeration value="Object cluster"/>
<xs:enumeration value="IndObj"/>
<xs:enumeration value="Copula-predicate"/>
<xs:enumeration value="Adjunct"/>
<xs:enumeration value="Attribute"/>
<xs:enumeration value="Disjunct"/>
<xs:enumeration value="Interjection"/>
<xs:enumeration value="Modal word"/>
<xs:enumeration value="Discourse marker"/>
<xs:enumeration value="Dislocative"/>
<xs:enumeration value="Addressee"/>
<xs:enumeration value="Conj"/>
<xs:enumeration value="Co-ordinate conjunction"/>
<xs:enumeration value="Subordinate conjunction"/>
<xs:enumeration value="Relative particle"/>
<xs:enumeration value="-"/>
</xs:restriction>
</xs:simpleType>

<xs:simpleType name="semfenum">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Action"/>
  </xs:restriction>
</xs:simpleType>

```

```
<xs:enumeration value="Position"/>
<xs:enumeration value="Process"/>
<xs:enumeration value="State"/>
<xs:enumeration value="Agent"/>
<xs:enumeration value="Positioner"/>
<xs:enumeration value="Force"/>
<xs:enumeration value="Processed"/>
<xs:enumeration value="Zero"/>
<xs:enumeration value="Patient"/>
<xs:enumeration value="Product"/>
<xs:enumeration value="Receiver"/>
<xs:enumeration value="Location"/>
<xs:enumeration value="Direction"/>
<xs:enumeration value="Source"/>
<xs:enumeration value="Reference"/>
<xs:enumeration value="Beneficiary"/>
<xs:enumeration value="Company"/>
<xs:enumeration value="Instrument"/>
<xs:enumeration value="Manner"/>
<xs:enumeration value="Speed"/>
<xs:enumeration value="Role"/>
<xs:enumeration value="Path"/>
<xs:enumeration value="Time"/>
<xs:enumeration value="Circumstance"/>
<xs:enumeration value="Result"/>
<xs:enumeration value="Purpose"/>
<xs:enumeration value="Reason"/>
<xs:enumeration value="Cause"/>
<xs:enumeration value="Existence"/>
<xs:enumeration value="Identification"/>
```

```

    <xs:enumeration value="Classification"/>
    <xs:enumeration value="Quality"/>
    <xs:enumeration value="Possessor"/>
    <xs:enumeration value="-"/>
  </xs:restriction>
</xs:simpleType>

<xs:element name="Genesis1v1-2v3" msdata:IsDataSet="true" msdata:Locale="en-ZA" msdata:EnforceConstraints="False">
  <xs:complexType>
    <xs:choice maxOccurs="unbounded">
      <xs:element name="clause">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="clauseno" type="xs:string" minOccurs="0" />
            <xs:element name="headers" minOccurs="0" maxOccurs="unbounded">
              <xs:complexType>
                <xs:sequence>
                  <xs:element name="header" nillable="true" minOccurs="0" maxOccurs="unbounded">
                    <xs:complexType>
                      <xs:simpleContent msdata:ColumnName="header_Text" msdata:Ordinal="0">
                        <xs:extension base="xs:string">
                      </xs:extension>
                    </xs:simpleContent>
                  </xs:complexType>
                </xs:sequence>
              </xs:element>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:element>
    </xs:choice>
    <xs:element name="level1" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>

```

```

    <xs:sequence>
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      <xs:element name="phrase1" type="xs:string" minOccurs="0" />
      <xs:element name="phrase2" type="xs:string" minOccurs="0" />
      <xs:element name="phrase3" type="xs:string" minOccurs="0" />
      <xs:element name="phrase4" type="xs:string" minOccurs="0" />
      <xs:element name="phrase5" type="xs:string" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="level2" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="leveldesc" type="xs:string" minOccurs="0" />
      <xs:element name="phrase1" type="xs:string" minOccurs="0" />
      <xs:element name="phrase2" type="xs:string" minOccurs="0" />
      <xs:element name="phrase3" type="xs:string" minOccurs="0" />
      <xs:element name="phrase4" type="xs:string" minOccurs="0" />
      <xs:element name="phrase5" type="xs:string" minOccurs="0" />
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  </xs:complexType>
</xs:element>
<xs:element name="level3" minOccurs="0" maxOccurs="unbounded">
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  </xs:complexType>
</xs:element>
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  <xs:element name="phrase2" type="mstns:WGenum" minOccurs="0" />
  <xs:element name="phrase3" type="mstns:WGenum" minOccurs="0" />
  <xs:element name="phrase4" type="mstns:WGenum" minOccurs="0" />

```

```

        <xs:element name="phrase5" type="mstns:WGenum" minOccurs="0" />
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</xs:complexType>
</xs:element>
<xs:element name="level4" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="leveldesc" type="xs:string" minOccurs="0" />
            <xs:element name="phrase1" type="mstns:synfenum" minOccurs="0" />
            <xs:element name="phrase2" type="mstns:synfenum" minOccurs="0" />
            <xs:element name="phrase3" type="mstns:synfenum" minOccurs="0" />
            <xs:element name="phrase4" type="mstns:synfenum" minOccurs="0" />
            <xs:element name="phrase5" type="mstns:synfenum" minOccurs="0" />
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    </xs:complexType>
</xs:element>
<xs:element name="level5" minOccurs="0" maxOccurs="unbounded">
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            <xs:element name="leveldesc" type="xs:string" minOccurs="0" />
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            <xs:element name="phrase2" type="mstns:semfenum" minOccurs="0" />
            <xs:element name="phrase3" type="mstns:semfenum" minOccurs="0" />
            <xs:element name="phrase4" type="mstns:semfenum" minOccurs="0" />
            <xs:element name="phrase5" type="mstns:semfenum" minOccurs="0" />

        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:sequence>

```

```
        </xs:complexType>
    </xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
```

Addendum H: XML clause cube

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<?xml-stylesheet type='text/css' href='Gen1XMLdb03c.css'?>
<Genesis1v1-2v3 xmlns="http://tempuri.org/Gen1_InputV15.xsd">
  <clause>
    <clauseno>Gen01v01a</clauseno>
    <headers>
      <header>Level</header>
      <header>Phrase1</header>
      <header>Phrase2</header>
      <header>Phrase3</header>
      <header>Phrase4</header>
      <header>Phrase5</header>
    </headers>
    <level1>
      <leveldesc>Phon:</leveldesc>
      <phrase1>brešit</phrase1>
      <phrase2>bara</phrase2>
      <phrase3>elohim</phrase3>
      <phrase4>et hašamayim ve'et ha'arets</phrase4>
      <phrase5>-</phrase5>
    </level1>
    <level2>
      <leveldesc>Translation:</leveldesc>
      <phrase1>in the beginning</phrase1>
      <phrase2>he created</phrase2>
      <phrase3>God</phrase3>
      <phrase4>the heaven and the earth</phrase4>
      <phrase5>-</phrase5>
    </level2>
    <level3>
      <leveldesc>Phrase type:</leveldesc>
      <phrase1>PP</phrase1>
      <phrase2>VP</phrase2>
      <phrase3>NP</phrase3>
      <phrase4>NP</phrase4>
      <phrase5>-</phrase5>
    </level3>
    <level4>
      <leveldesc>SynF:</leveldesc>
      <phrase1>Adjunct</phrase1>
      <phrase2>Main verb</phrase2>
      <phrase3>Subject</phrase3>
      <phrase4>Object</phrase4>
      <phrase5>-</phrase5>
  </clause>

```

```

</level4>
<level5>
  <leveldesc>SemF:</leveldesc>
  <phrase1>Time</phrase1>
  <phrase2>Action</phrase2>
  <phrase3>Agent</phrase3>
  <phrase4>Product</phrase4>
  <phrase5>--</phrase5>
</level5>
</clause>
<clause>
  <clauseno>Gen01v02a</clauseno>
  <headers>
    <header>Level</header>
    <header>Phrase1</header>
    <header>Phrase2</header>
    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>veha'arets</phrase1>
    <phrase2>hayta</phrase2>
    <phrase3>tohu vavohu</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and the earth</phrase1>
    <phrase2>was</phrase2>
    <phrase3>an emptiness and void</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>NP</phrase1>
    <phrase2>VP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>

```



```

    <phrase1>Subject</phrase1>
    <phrase2>Copulative verb</phrase2>
    <phrase3>Copula-predicate</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level4>
  <level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Zero</phrase1>
    <phrase2>State</phrase2>
    <phrase3>Classification</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level5>
</clause>
<clause>
  <clauseno>Gen01v02b</clauseno>
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    <header>Phrase1</header>
    <header>Phrase2</header>
    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>vexo$ex</phrase1>
    <phrase2>al pney tehom</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and darkness</phrase1>
    <phrase2>on the surface of primeval ocean</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>NP</phrase1>
    <phrase2>PP</phrase2>
    <phrase3>--</phrase3>

```

```

        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
</level3>
<level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Subject</phrase1>
    <phrase2>Copula-predicate</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Zero</phrase1>
    <phrase2>Location</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level5>
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        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>veruach elohim</phrase1>
        <phrase2>meraxefet</phrase2>
        <phrase3>a1 pney hamayim</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level1>
    <level2>
        <leveldesc>Translation:</leveldesc>
        <phrase1>and the spirit of God</phrase1>
        <phrase2>hovering</phrase2>
        <phrase3>on the surface of the water</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level2>

```

```

<level3>
  <leveldesc>Phrase type:</leveldesc>
  <phrase1>NP</phrase1>
  <phrase2>AP</phrase2>
  <phrase3>PP</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level3>
<level4>
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  <phrase1>Subject</phrase1>
  <phrase2>Copula-predicate</phrase2>
  <phrase3>Complement</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level4>
<level5>
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  <phrase1>Positioner</phrase1>
  <phrase2>Position</phrase2>
  <phrase3>Location</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level5>
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    <header>Phrase2</header>
    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>vayomer</phrase1>
    <phrase2>elohim</phrase2>
    <phrase3>[yehi or]</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>And He said</phrase1>

```

```

    <phrase2>God</phrase2>
    <phrase3>[Let there be light]</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level2>
<level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>[EC]</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level3>
<level4>
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    <phrase1>Main verb</phrase1>
    <phrase2>Subject</phrase2>
    <phrase3>Object clause</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
<level5>
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    <phrase2>Agent</phrase2>
    <phrase3>Patient</phrase3>
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    <phrase5>--</phrase5>
</level5>
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<clause>
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        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>yehi</phrase1>
        <phrase2>or</phrase2>
        <phrase3>--</phrase3>
        <phrase4>--</phrase4>

```

```

    <phrase5>-</phrase5>
</level1>
<level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>Let there be</phrase1>
    <phrase2>light</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
</level2>
<level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
</level3>
<level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Copulative verb</phrase1>
    <phrase2>Subject</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>State</phrase1>
    <phrase2>Zero</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
</level5>
</clause>
<clause>
    <clauseno>Gen01v03c</clauseno>
    <headers>
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        <header>Phrase1</header>
        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
</level1>

```

```

    <leveldesc>Phon:</leveldesc>
    <phrase1>vayehi</phrase1>
    <phrase2>or</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>And there was</phrase1>
    <phrase2>light</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Copulative verb</phrase1>
    <phrase2>Subject</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level4>
  <level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>State</phrase1>
    <phrase2>Zero</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level5>
</clause>
<clause>
  <clauseno>Gen01v04a</clauseno>
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    <header>Level</header>
    <header>Phrase1</header>
    <header>Phrase2</header>

```

```

    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
</headers>
<level1>
  <leveldesc>Phon:</leveldesc>
  <phrase1>vayar</phrase1>
  <phrase2>elohim</phrase2>
  <phrase3>[et ha'or ki tov]</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level1>
<level2>
  <leveldesc>Translation:</leveldesc>
  <phrase1>And he saw</phrase1>
  <phrase2>God</phrase2>
  <phrase3>[that the light was good]</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level2>
<level3>
  <leveldesc>Phrase type:</leveldesc>
  <phrase1>VP</phrase1>
  <phrase2>NP</phrase2>
  <phrase3>[EC]</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level3>
<level4>
  <leveldesc>SynF:</leveldesc>
  <phrase1>Main verb</phrase1>
  <phrase2>Subject</phrase2>
  <phrase3>Object clause</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level4>
<level5>
  <leveldesc>SemF:</leveldesc>
  <phrase1>Process</phrase1>
  <phrase2>Processed</phrase2>
  <phrase3>Patient</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level5>
</clause>
<clause>

```

```

<clauseno>Gen01v04b</clauseno>
<headers>
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  <header>Phrase1</header>
  <header>Phrase2</header>
  <header>Phrase3</header>
  <header>Phrase4</header>
  <header>Phrase5</header>
</headers>
<level1>
  <leveldesc>Phon:</leveldesc>
  <phrase1>et ha'or</phrase1>
  <phrase2>ki</phrase2>
  <phrase3>tov</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level1>
<level2>
  <leveldesc>Translation:</leveldesc>
  <phrase1>the light</phrase1>
  <phrase2>that</phrase2>
  <phrase3>good</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level2>
<level3>
  <leveldesc>Phrase type:</leveldesc>
  <phrase1>NP</phrase1>
  <phrase2>ConjP</phrase2>
  <phrase3>AP</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level3>
<level4>
  <leveldesc>SynF:</leveldesc>
  <phrase1>Subject</phrase1>
  <phrase2>Conj</phrase2>
  <phrase3>Copula-predicate</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level4>
<level5>
  <leveldesc>SemF:</leveldesc>
  <phrase1>Zero</phrase1>
  <phrase2>-</phrase2>
  <phrase3>Quality</phrase3>

```



```

        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level5>
</clause>
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    <clauseno>Gen01v04c</clauseno>
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        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>vayavdel</phrase1>
        <phrase2>elohim</phrase2>
        <phrase3>ben ha'or</phrase3>
        <phrase4>uven haxo$ex</phrase4>
        <phrase5>--</phrase5>
    </level1>
    <level2>
        <leveldesc>Translation:</leveldesc>
        <phrase1>and he separated</phrase1>
        <phrase2>God</phrase2>
        <phrase3>between the light</phrase3>
        <phrase4>and between the darkness</phrase4>
        <phrase5>--</phrase5>
    </level2>
    <level3>
        <leveldesc>Phrase type:</leveldesc>
        <phrase1>VP</phrase1>
        <phrase2>NP</phrase2>
        <phrase3>PP</phrase3>
        <phrase4>PP</phrase4>
        <phrase5>--</phrase5>
    </level3>
    <level4>
        <leveldesc>SynF:</leveldesc>
        <phrase1>Main verb</phrase1>
        <phrase2>Subject</phrase2>
        <phrase3>Complement</phrase3>
        <phrase4>Complement</phrase4>
        <phrase5>--</phrase5>
    </level4>

```

```

<level5>
  <leveldesc>SemF:</leveldesc>
  <phrase1>Action</phrase1>
  <phrase2>Agent</phrase2>
  <phrase3>Patient</phrase3>
  <phrase4>Source</phrase4>
  <phrase5>-</phrase5>
</level5>
</clause>
<clause>
  <clauseno>Gen01v05a</clauseno>
  <headers>
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    <header>Phrase1</header>
    <header>Phrase2</header>
    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>vayikra</phrase1>
    <phrase2>elohim</phrase2>
    <phrase3>la'or</phrase3>
    <phrase4>yom</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and he called</phrase1>
    <phrase2>God</phrase2>
    <phrase3>to the light</phrase3>
    <phrase4>day</phrase4>
    <phrase5>-</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>PP</phrase3>
    <phrase4>NP</phrase4>
    <phrase5>-</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Main verb</phrase1>

```

```

    <phrase2>Subject</phrase2>
    <phrase3>IndObj</phrase3>
    <phrase4>Complement</phrase4>
    <phrase5>-</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Action</phrase1>
    <phrase2>Agent</phrase2>
    <phrase3>Patient</phrase3>
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    <leveldesc>Translation:</leveldesc>
    <phrase1>and it was</phrase1>
    <phrase2>evening</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>

```

```

    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Copulative verb</phrase1>
    <phrase2>Subject</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level4>
  <level5>
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    <phrase1>State</phrase1>
    <phrase2>Zero</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level5>
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    <header>Phrase2</header>
    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>vayehi</phrase1>
    <phrase2>voker</phrase2>
    <phrase3>yom hašiši</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and it was</phrase1>
    <phrase2>morning</phrase2>
    <phrase3>sixth day</phrase3>

```

```

    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level2>
<level3>
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    <phrase2>NP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level3>
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    <phrase2>Subject</phrase2>
    <phrase3>Attribute</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
<level5>
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    <phrase2>Zero</phrase2>
    <phrase3>Quality</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level5>
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        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>vayxullu</phrase1>
        <phrase2>ha$amayim veba'arec vexol cva'am</phrase2>
        <phrase3>--</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level1>

```

```

<level2>
  <leveldesc>Translation:</leveldesc>
  <phrase1>and they were completed</phrase1>
  <phrase2>the heaven and the earth and all their
warriors</phrase2>
  <phrase3>--</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level2>
<level3>
  <leveldesc>Phrase type:</leveldesc>
  <phrase1>VP</phrase1>
  <phrase2>NP</phrase2>
  <phrase3>--</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level3>
<level4>
  <leveldesc>SynF:</leveldesc>
  <phrase1>Main verb</phrase1>
  <phrase2>Subject</phrase2>
  <phrase3>--</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level4>
<level5>
  <leveldesc>SemF:</leveldesc>
  <phrase1>Action</phrase1>
  <phrase2>Patient</phrase2>
  <phrase3>--</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level5>
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    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
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  <leveldesc>Phon:</leveldesc>

```

```

    <phrase1>vayxal</phrase1>
    <phrase2>elohim</phrase2>
    <phrase3>bayom ha$vi'i</phrase3>
    <phrase4>melaxto [Gen02v02b]</phrase4>
    <phrase5>-</phrase5>
</level1>
<level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and He finished</phrase1>
    <phrase2>God</phrase2>
    <phrase3>on the seventh day</phrase3>
    <phrase4>his work [...]</phrase4>
    <phrase5>-</phrase5>
</level2>
<level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>PP</phrase3>
    <phrase4>NP</phrase4>
    <phrase5>-</phrase5>
</level3>
<level4>
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    <phrase1>Main verb</phrase1>
    <phrase2>Subject</phrase2>
    <phrase3>Adjunct</phrase3>
    <phrase4>Object</phrase4>
    <phrase5>-</phrase5>
</level4>
<level5>
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    <phrase1>Action</phrase1>
    <phrase2>Agent</phrase2>
    <phrase3>Time</phrase3>
    <phrase4>Patient</phrase4>
    <phrase5>-</phrase5>
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        <header>Phrase2</header>
        <header>Phrase3</header>

```

```

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    <header>Phrase5</header>
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    <phrase1>a$er</phrase1>
    <phrase2>asa</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level1>
<level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>that</phrase1>
    <phrase2>He made</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level2>
<level3>
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    <phrase2>VP</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level3>
<level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Object</phrase1>
    <phrase2>Main verb</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Product</phrase1>
    <phrase2>Action</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
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<clause>
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```



```

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  <header>Phrase5</header>
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  <leveldesc>Phon:</leveldesc>
  <phrase1>vayi$bot</phrase1>
  <phrase2>bayom ha$vi'i</phrase2>
  <phrase3>mikol melaxto [Gen02v02d]</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level1>
<level2>
  <leveldesc>Translation:</leveldesc>
  <phrase1>and He stopped</phrase1>
  <phrase2>on the seventh day</phrase2>
  <phrase3>with all his work [...]</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level2>
<level3>
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  <phrase2>PP</phrase2>
  <phrase3>PP</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level3>
<level4>
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  <phrase2>Adjunct</phrase2>
  <phrase3>Complement</phrase3>
  <phrase4>--</phrase4>
  <phrase5>--</phrase5>
</level4>
<level5>
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  <phrase2>Time</phrase2>
  <phrase3>Patient</phrase3>
  <phrase4>--</phrase4>

```

```

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        <phrase2>asa</phrase2>
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        <phrase2>He made</phrase2>
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        <phrase4>-</phrase4>
        <phrase5>-</phrase5>
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        <phrase2>VP</phrase2>
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        <phrase4>-</phrase4>
        <phrase5>-</phrase5>
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    <level4>
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        <phrase1>Object</phrase1>
        <phrase2>Main verb</phrase2>
        <phrase3>-</phrase3>
        <phrase4>-</phrase4>
        <phrase5>-</phrase5>
    </level4>
    <level5>

```

```

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    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
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    <phrase2>elohim</phrase2>
    <phrase3>et yom ha$vi'i</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and He blessed</phrase1>
    <phrase2>God</phrase2>
    <phrase3>the seventh day</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
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    <phrase2>NP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
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    <phrase2>Subject</phrase2>

```

```

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    <phrase3>Patient</phrase3>
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    <phrase5>--</phrase5>
</level5>
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        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>vaykade$</phrase1>
        <phrase2>oto</phrase2>
        <phrase3>[Gen02v03c - Gen02v03d]</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level1>
    <level2>
        <leveldesc>Translation:</leveldesc>
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        <phrase2>it</phrase2>
        <phrase3>[...]</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level2>
    <level3>
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        <phrase2>NP</phrase2>
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        <phrase5>--</phrase5>

```

```

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    <phrase2>vo</phrase2>
    <phrase3>$avat</phrase3>
    <phrase4>mikol melaxto [Gen02v03d]</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>because</phrase1>
    <phrase2>in it</phrase2>
    <phrase3>He stopped</phrase3>
    <phrase4>with all his work [...]</phrase4>
    <phrase5>-</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>

```

```

    <phrase1>ConjP</phrase1>
    <phrase2>PP</phrase2>
    <phrase3>VP</phrase3>
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  <phrase2>Adjunct</phrase2>
  <phrase3>Main verb</phrase3>
  <phrase4>Complement</phrase4>
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  <phrase2>Time</phrase2>
  <phrase3>Action</phrase3>
  <phrase4>Patient</phrase4>
  <phrase5>-</phrase5>
</level5>
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    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
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    <phrase2>bara</phrase2>
    <phrase3>elohim</phrase3>
    <phrase4>la'asot</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>which</phrase1>
    <phrase2>He created</phrase2>
    <phrase3>God</phrase3>

```

```

    <phrase4>by making</phrase4>
    <phrase5>-</phrase5>
</level2>
<level3>
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    <phrase2>VP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>PP</phrase4>
    <phrase5>-</phrase5>
</level3>
<level4>
    <leveldesc>SynF:</leveldesc>
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    <phrase2>Main verb</phrase2>
    <phrase3>Subject</phrase3>
    <phrase4>Adjunct</phrase4>
    <phrase5>-</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Product</phrase1>
    <phrase2>Action</phrase2>
    <phrase3>Agent</phrase3>
    <phrase4>Manner</phrase4>
    <phrase5>-</phrase5>
</level5>
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</Genesis1v1-2v3>

```

Addendum I: XML clause cube (corrected)

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<?xml-stylesheet type='text/css' href='Gen1XMLdb03c.css'?>
<Genesis1v1-2v3 xmlns="http://tempuri.org/Gen1_InputV15.xsd">
  <clause>
    <clauseno>Gen01v01a</clauseno>
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      <header>Phrase1</header>
      <header>Phrase2</header>
      <header>Phrase3</header>
      <header>Phrase4</header>
      <header>Phrase5</header>
    </headers>
    <level1>
      <leveldesc>Phon:</leveldesc>
      <phrase1>brešit</phrase1>
      <phrase2>bara</phrase2>
      <phrase3>elohim</phrase3>
      <phrase4>et hašamayim ve'et ha'arets</phrase4>
      <phrase5>-</phrase5>
    </level1>
    <level2>
      <leveldesc>Translation:</leveldesc>
      <phrase1>in the beginning</phrase1>
      <phrase2>he created</phrase2>
      <phrase3>God</phrase3>
      <phrase4>the heaven and the earth</phrase4>
      <phrase5>-</phrase5>
    </level2>
    <level3>
      <leveldesc>Phrase type:</leveldesc>
      <phrase1>PP</phrase1>
      <phrase2>VP</phrase2>
      <phrase3>NP</phrase3>
      <phrase4>NP</phrase4>
      <phrase5>-</phrase5>
    </level3>
    <level4>
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      <phrase1>Adjunct</phrase1>
      <phrase2>Main verb</phrase2>
      <phrase3>Subject</phrase3>
      <phrase4>Object</phrase4>
      <phrase5>-</phrase5>
  </clause>

```



```

</level4>
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  <phrase3>Agent</phrase3>
  <phrase4>Product</phrase4>
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    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
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    <phrase1>veha'arets</phrase1>
    <phrase2>hayta</phrase2>
    <phrase3>tohu vavohu</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and the earth</phrase1>
    <phrase2>was</phrase2>
    <phrase3>an emptiness and void</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>NP</phrase1>
    <phrase2>VP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>

```

```

    <phrase1>Subject</phrase1>
    <phrase2>Copulative verb</phrase2>
    <phrase3>Copula-predicate</phrase3>
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    <phrase5>-</phrase5>
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    <phrase2>State</phrase2>
    <phrase3>Classification</phrase3>
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    <phrase5>-</phrase5>
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    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
  <level1>
    <leveldesc>Phon:</leveldesc>
    <phrase1>vexo$ex</phrase1>
    <phrase2>al pney tehom</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>and darkness</phrase1>
    <phrase2>on the surface of primeval ocean</phrase2>
    <phrase3>-</phrase3>
    <phrase4>-</phrase4>
    <phrase5>-</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>NP</phrase1>
    <phrase2>PP</phrase2>
    <phrase3>-</phrase3>

```

```

        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
</level3>
<level4>
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    <phrase2>Copula-predicate</phrase2>
    <phrase3>--</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
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    <phrase2>Location</phrase2>
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    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
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        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
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        <phrase2>meraxefet</phrase2>
        <phrase3>a1 pney hamayim</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
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    <level2>
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        <phrase1>and the spirit of God</phrase1>
        <phrase2>hovering</phrase2>
        <phrase3>on the surface of the water</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level2>

```

```

<level3>
  <leveldesc>Phrase type:</leveldesc>
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    <phrase3>to you</phrase3>
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and all greens plants, green plants as food</phrase4>
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    <phrase2>God</phrase2>
    <phrase3>the seventh day</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level2>
  <level3>
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    <phrase1>VP</phrase1>
    <phrase2>NP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
  </level3>
  <level4>
    <leveldesc>SynF:</leveldesc>
    <phrase1>Main verb</phrase1>
    <phrase2>Subject</phrase2>

```

```

    <phrase3>Object</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level4>
<level5>
    <leveldesc>SemF:</leveldesc>
    <phrase1>Action</phrase1>
    <phrase2>Agent</phrase2>
    <phrase3>Patient</phrase3>
    <phrase4>--</phrase4>
    <phrase5>--</phrase5>
</level5>
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<clause>
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        <header>Phrase2</header>
        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
    </headers>
    <level1>
        <leveldesc>Phon:</leveldesc>
        <phrase1>vaykade$</phrase1>
        <phrase2>oto</phrase2>
        <phrase3>[Gen02v03c - Gen02v03d]</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level1>
    <level2>
        <leveldesc>Translation:</leveldesc>
        <phrase1>and He consecrated</phrase1>
        <phrase2>it</phrase2>
        <phrase3>[...]</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>
    </level2>
    <level3>
        <leveldesc>Phrase type:</leveldesc>
        <phrase1>VP</phrase1>
        <phrase2>NP</phrase2>
        <phrase3>ECC</phrase3>
        <phrase4>--</phrase4>
        <phrase5>--</phrase5>

```

```

</level3>
<level4>
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  <phrase2>Object</phrase2>
  <phrase3>Adjunct</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
</level4>
<level5>
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  <phrase2>Patient</phrase2>
  <phrase3>Reason</phrase3>
  <phrase4>-</phrase4>
  <phrase5>-</phrase5>
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    <header>Phrase3</header>
    <header>Phrase4</header>
    <header>Phrase5</header>
  </headers>
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    <leveldesc>Phon:</leveldesc>
    <phrase1>ki</phrase1>
    <phrase2>vo</phrase2>
    <phrase3>$avat</phrase3>
    <phrase4>mikol melaxto [Gen02v03d]</phrase4>
    <phrase5>-</phrase5>
  </level1>
  <level2>
    <leveldesc>Translation:</leveldesc>
    <phrase1>because</phrase1>
    <phrase2>in it</phrase2>
    <phrase3>He stopped</phrase3>
    <phrase4>with all his work [...]</phrase4>
    <phrase5>-</phrase5>
  </level2>
  <level3>
    <leveldesc>Phrase type:</leveldesc>

```

```

    <phrase1>ConjP</phrase1>
    <phrase2>PP</phrase2>
    <phrase3>VP</phrase3>
    <phrase4>PP</phrase4>
    <phrase5>-</phrase5>
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    <phrase2>Adjunct</phrase2>
    <phrase3>Main verb</phrase3>
    <phrase4>Complement</phrase4>
    <phrase5>-</phrase5>
</level4>
<level5>
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    <phrase1>-</phrase1>
    <phrase2>Time</phrase2>
    <phrase3>Action</phrase3>
    <phrase4>Patient</phrase4>
    <phrase5>-</phrase5>
</level5>
</clause>
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        <header>Phrase3</header>
        <header>Phrase4</header>
        <header>Phrase5</header>
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        <leveldesc>Phon:</leveldesc>
        <phrase1>a$er</phrase1>
        <phrase2>bara</phrase2>
        <phrase3>elohim</phrase3>
        <phrase4>la'asot</phrase4>
        <phrase5>-</phrase5>
    </level1>
    <level2>
        <leveldesc>Translation:</leveldesc>
        <phrase1>which</phrase1>
        <phrase2>He created</phrase2>
        <phrase3>God</phrase3>

```

```

    <phrase4>by making</phrase4>
    <phrase5>-</phrase5>
</level2>
<level3>
    <leveldesc>Phrase type:</leveldesc>
    <phrase1>RP</phrase1>
    <phrase2>VP</phrase2>
    <phrase3>NP</phrase3>
    <phrase4>PP</phrase4>
    <phrase5>-</phrase5>
</level3>
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    <phrase2>Main verb</phrase2>
    <phrase3>Subject</phrase3>
    <phrase4>Adjunct</phrase4>
    <phrase5>-</phrase5>
</level4>
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    <leveldesc>SemF:</leveldesc>
    <phrase1>Product</phrase1>
    <phrase2>Action</phrase2>
    <phrase3>Agent</phrase3>
    <phrase4>Manner</phrase4>
    <phrase5>-</phrase5>
</level5>
</clause>
</Genesis1v1-2v3>

```


Addendum J: XML clause cube style sheet

```
clause {display:table; border-style:solid; margin-top:20; margin-left:20;
padding:10px}
```

```
clauseno {display:table-caption; font-size: 20pt}
```

```
headers {display:table-header-group}
```

```
header {display:table-cell; padding:6px;
background-color:lightblue; border-style:solid}
```

```
level1 {display:table-row}
```

```
level2 {display:table-row}
```

```
level3 {display:table-row}
```

```
level4 {display:table-row}
```

```
level5 {display:table-row}
```

```
leveldesc{display:table-cell; background-color:lightblue; border-
style:solid; border-top-width:medium; border-bottom-width:medium; border-
left-width:medium; border-right-width:medium; padding:6px;}
```

```
phrase1 {display:table-cell; border-style:solid; border-top-width:thin;
border-bottom-width:thin; border-left-width:thin; border-right-width:thin;
padding:6px;}
```

```
phrase2 {display:table-cell; border-style:solid; border-top-width:thin;
border-bottom-width:thin; border-left-width:thin; border-right-width:thin;
padding:6px;}
```

```
phrase3 {display:table-cell; border-style:solid; border-top-width:thin;
border-bottom-width:thin; border-left-width:thin; border-right-width:thin;
padding:6px;}
```

```
phrase4 {display:table-cell; border-style:solid; border-top-width:thin;
border-bottom-width:thin; border-left-width:thin; border-right-width:thin;
padding:6px;}
```

```
phrase5 {display:table-cell; border-style:solid; border-top-width:thin;
border-bottom-width:thin; border-left-width:thin; border-right-width:thin;
padding:6px;}
```

Gen01v01a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------------|------------|---------|------------------------------|---------|
| Phon: | bre\$it | bara | elohim | et ha\$amayim ve'et ha'arets | - |
| Translation: | in the beginning | he created | God | the heaven and the earth | - |
| Phrase type: | PP | VP | NP | NP | - |
| SynF: | Adjunct | Main verb | Subject | Object | - |
| SemF: | Time | Action | Agent | Product | - |

Gen01v02a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------|-----------------|-----------------------|---------|---------|
| Phon: | veha'arets | hayta | tohu vavohu | - | - |
| Translation: | and the earth | was | an emptiness and void | - | - |
| Phrase type: | NP | VP | NP | - | - |
| SynF: | Subject | Copulative verb | Copula-predicate | - | - |
| SemF: | Zero | State | Classification | - | - |

Gen01v02b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|--------------|----------------------------------|---------|---------|---------|
| Phon: | vexo\$ex | al pney tehom | - | - | - |
| Translation: | and darkness | on the surface of primeval ocean | - | - | - |
| Phrase type: | NP | PP | - | - | - |
| SynF: | Subject | Copula-predicate | - | - | - |
| SemF: | Zero | Location | - | - | - |

Gen01v02c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------------|------------------|-----------------------------|---------|---------|
| Phon: | veruach elohim | meraxefet | al pney hamayim | - | - |
| Translation: | and the spirit of God | hovering | on the surface of the water | - | - |
| Phrase type: | NP | AP | PP | - | - |
| SynF: | Subject | Copula-predicate | Complement | - | - |
| SemF: | Positioner | Position | Location | - | - |

Gen01v03a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|----------------------|---------|---------|
| Phon: | vayomer | elohim | [yehi or] | - | - |
| Translation: | And He said | God | [Let there be light] | - | - |
| Phrase type: | VP | NP | [EC] | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v03b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | yehi | or | - | - | - |
| Translation: | Let there be | light | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v03c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | or | - | - | - |
| Translation: | And there was | light | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v04a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------------------|---------|---------|
| Phon: | vayar | elohim | [et ha'or ki tov] | - | - |
| Translation: | And he saw | God | [that the light was good] | - | - |
| Phrase type: | VP | NP | [EC] | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v04b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|---------|------------------|---------|---------|
| Phon: | et ha'or | ki | tov | - | - |
| Translation: | the light | that | good | - | - |
| Phrase type: | NP | ConjP | AP | - | - |
| SynF: | Subject | Conj | Copula-predicate | - | - |
| SemF: | Zero | - | Quality | - | - |

Gen01v04c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------------|---------|-------------------|--------------------------|---------|
| Phon: | vayavdel | elohim | ben ha'or | uven haxo\$ex | - |
| Translation: | and he separated | God | between the light | and between the darkness | - |
| Phrase type: | VP | NP | PP | PP | - |
| SynF: | Main verb | Subject | Complement | Complement | - |
| SemF: | Action | Agent | Patient | Source | - |

Gen01v05a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------|---------|--------------|------------|---------|
| Phon: | vayikra | elohim | la'or | yom | - |
| Translation: | and he called | God | to the light | day | - |
| Phrase type: | VP | NP | PP | NP | - |
| SynF: | Main verb | Subject | IndObj | Complement | - |
| SemF: | Action | Agent | Patient | Product | - |

Gen01v05b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------|-----------|------------|---------|---------|
| Phon: | velaxo\$ex | kara | layla | - | - |
| Translation: | and to the darkness | he called | night | - | - |
| Phrase type: | PP | VP | NP | - | - |
| SynF: | IndObj | Main verb | Complement | - | - |
| SemF: | Patient | Action | Product | - | - |

Gen01v05c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v05d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|-----------|---------|---------|
| Phon: | vayehi | voker | yom exad | - | - |
| Translation: | and it was | morning | day one | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen01v06a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v06b - Gen01v06c] | - | - |
| Translation: | and He said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v06b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|-------------|------------------|---------|---------|
| Phon: | yehi | rakia | betox hamayim | - | - |
| Translation: | let there be | a firmament | in the heaven | - | - |
| Phrase type: | VP | NP | PP | - | - |
| SynF: | Copulative verb | Subject | Copula-predicate | - | - |
| SemF: | State | Zero | Location | - | - |

Gen01v06c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|--------------------------|---------------|------------|---------|---------|
| Phon: | vihi mavdil | ben mayim | lamayim | - | - |
| Translation: | and let it be separating | between water | and water | - | - |
| Phrase type: | VP | PP | PP | - | - |
| SynF: | Copulative verb | Complement | Complement | - | - |
| SemF: | Action | Patient | Source | - | - |

Gen01v07a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------------|---------|---------|
| Phon: | vaya'as | elohim | et harakia | - | - |
| Translation: | and He made | God | the firmament | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Subject | Object | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v07b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------------|----------------------------|-----------------------------|---------|---------|
| Phon: | vayavdel | ben hamayim [Gen01v07c] | uven hamayim [Gen01v07d] | - | - |
| Translation: | and He separated | between the water [...] | and between the water [...] | - | - |
| Phrase type: | VP | PP | PP | - | - |
| SynF: | Main verb | Object | Complement | - | - |
| SemF: | Action | Patient | Source | - | - |

Gen01v07c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|---------------------|---------|---------|---------|
| Phon: | a\$er | mitaxat larakia | - | - | - |
| Translation: | that (is) | under the firmament | - | - | - |
| Phrase type: | RP | PP | - | - | - |
| SynF: | Subject | Copula-predicate | - | - | - |
| SemF: | Zero | Location | - | - | - |

Gen01v07d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|---------------------|---------|---------|---------|
| Phon: | a\$er | me'al larakia | - | - | - |
| Translation: | that (is) | above the firmament | - | - | - |
| Phrase type: | RP | PP | - | - | - |
| SynF: | Subject | Copula-predicate | - | - | - |
| SemF: | Zero | Location | - | - | - |

Gen01v07e

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | And it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v08a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------|---------|------------------|----------|---------|
| Phon: | vayikra | elohim | larakia | \$amayim | - |
| Translation: | And He called | God | to the firmament | heaven | - |
| Phrase type: | VP | NP | PP | NP | - |
| SynF: | Main verb | Subject | IndObj | Object | - |
| SemF: | Action | Agent | Patient | Product | - |

Gen01v08b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v08c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|------------|---------|---------|
| Phon: | vayehi | voker | yom \$eni | - | - |
| Translation: | and it was | morning | second day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen01v09a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v09b - Gen01v09c] | - | - |
| Translation: | and He said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v09b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------------|----------------------------|---------------|---------|---------|
| Phon: | yikavu | hamayim mitaxat ha\$amayim | el makom exad | - | - |
| Translation: | let them collect | the water under the heaven | to one place | - | - |
| Phrase type: | VP | NP | PP | - | - |
| SynF: | Main verb | Subject | Complement | - | - |
| SemF: | Process | Processed | Location | - | - |

Gen01v09c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------------|--------------|---------|---------|---------|
| Phon: | vetera'eh | hayaba\$a | - | - | - |
| Translation: | and let it become visible | the dry land | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Main verb | Subject | - | - | - |
| SemF: | Process | Processed | - | - | - |

Gen01v09d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | and it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v10a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------|---------|-----------------|---------|---------|
| Phon: | vayikra | elohim | layaba\$a | erec | - |
| Translation: | and He called | God | to the dry land | earth | - |
| Phrase type: | VP | NP | PP | NP | - |
| SynF: | Main verb | Subject | IndObj | Object | - |
| SemF: | Action | Agent | Patient | Product | - |

Gen01v10b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|--------------------------------------|-----------|---------|---------|---------|
| Phon: | ulemikveh hamayim | kara | yamim | - | - |
| Translation: | and to the accumulation of the water | He called | seas | - | - |
| Phrase type: | PP | VP | NP | - | - |
| SynF: | IndObj | Main verb | Object | - | - |
| SemF: | Patient | Action | Product | - | - |

Gen01v10c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------|---------|---------|
| Phon: | vayar | elohim | [Gen01v10d] | - | - |
| Translation: | And He saw | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v10d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|---------|---------|---------|
| Phon: | ki | tov | - | - | - |
| Translation: | that | (it was) good | - | - | - |
| Phrase type: | ConjP | AP | - | - | - |
| SynF: | Conj | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v11a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v11b] | - | - |
| Translation: | And He said | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v11b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------------|-----------|---|---------|---------|
| Phon: | tad\$e | ha'arec | de\$e esev mazria zera ec pri ose pri lemino [Gen01v11c] al ha'arec | - | - |
| Translation: | let it sprout | the earth | (with) grass, plant(s) bearing seed, fruittree(s) making fruit according to its kind [Gen01v11c] on the earth | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Subject | Complement | - | - |
| SemF: | Process | Processed | Reference | - | - |

Gen01v11c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|----------|------------------|---------|---------|
| Phon: | a\$er | zar'o | vo | - | - |
| Translation: | (of) which | its seed | (is) in it | - | - |
| Phrase type: | RP | NP | PP | - | - |
| SynF: | Conj | Subject | Copula-predicate | - | - |
| SemF: | - | Zero | Location | - | - |

Gen01v11d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | and it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v12a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|-----------|--|--|---------|
| Phon: | vatoceh | ha'arec | de\$e esev mazria zera (...) ve'ec ose pri [Gen01v12b] (...) | leminehu... leminehu | - |
| Translation: | And it produced | the land | grass, plant(s) bearing fruit (...) and tree(s) making fruit [Gen01v12b] (...) | according to its kind... according to its kind | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Process | Processed | Product | Manner | - |

Gen01v12b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|----------|------------------|---------|---------|
| Phon: | a\$er | zar'o | vo | - | - |
| Translation: | (of) which | its seed | (is) in it | - | - |
| Phrase type: | RP | NP | PP | - | - |
| SynF: | Conj | Subject | Copula-predicate | - | - |
| SemF: | - | Zero | Location | - | - |

Gen01v12c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------|---------|---------|
| Phon: | vayar | elohim | [Gen01v12d] | - | - |
| Translation: | And He saw | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v12d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|---------|---------|---------|
| Phon: | ki | tov | - | - | - |
| Translation: | that | (it was) good | - | - | - |
| Phrase type: | ConjP | AP | - | - | - |
| SynF: | Conj | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v13a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v13b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|-------------|---------|---------|
| Phon: | vayehi | voker | yom \$li\$i | - | - |
| Translation: | and it was | morning | third day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen01v14a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v14b - Gen01v14d] | - | - |
| Translation: | And He said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v14b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|--------------------------------|---|---------|
| Phon: | yehi | me'orot | birkia ha\$amayim | lehavdil ben hayom uven halayla | - |
| Translation: | let there be | lights | in the firmament of the heaven | to separate between the day and between the night | - |
| Phrase type: | VP | NP | PP | PP | - |
| SynF: | Copulative verb | Subject | Copula-predicate | Adjunct | - |
| SemF: | State | Zero | Location | Purpose | - |

Gen01v14c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---|---------|---------|---------|
| Phon: | vehayu | le'otot ulmo'adim ulyamim ve\$anim | - | - | - |
| Translation: | and let them be | to signs and to seasons and to days and years | - | - | - |
| Phrase type: | VP | PP | - | - | - |
| SynF: | Main verb | Copula-predicate | - | - | - |
| SemF: | State | Classification | - | - | - |

Gen01v15a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------------|--------------------------------|-----------------------|---------|
| Phon: | vehayu | lim'orot | birkia ha\$amayim | leha'ir al ha'arec | - |
| Translation: | and let them be | to lights | in the firmament of the heaven | to shine on the earth | - |
| Phrase type: | VP | PP | PP | PP | - |
| SynF: | Main verb | Copula-predicate | Adjunct | Adjunct | - |
| SemF: | State | Classification | Location | Purpose | - |

Gen01v15b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | and it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v16a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---|---|---------|
| Phon: | vaya'as | elohim | et \$ney ham'orot hagdolim et hama'or hagadol ... ve'et hama'or hakaton ... ve'et hakoxavim | lemem\$elet hayom ... lemем\$elet halayla | - |
| Translation: | and he made | God | the two great lights, the big light ..., and the small light ..., and the stars | to the dominion of the day ... to the dominion of the night | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Action | Agent | Product | Purpose | - |

Gen01v17a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------|--------------------------------|---|
| Phon: | vayiten | otam | elohim | birkia ha\$amayim | leha'ir al ha'arec (Gen01v18a) velim\$ol bayom uvalayla ulahavdil ben ha'or uven haxo\$ex |
| Translation: | and He gave | them | God | in the firmament of the heaven | to shine on the earth and to rule over the day and the night and to separate between the light and between the darkness |
| Phrase type: | VP | NP | NP | PP | PP |
| SynF: | Main verb | Object | Subject | Complement | Adjunct |
| SemF: | Action | Patient | Agent | Location | Purpose |

Gen01v18b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------|---------|---------|
| Phon: | vayar | elohim | [Gen01v18d] | - | - |
| Translation: | and He saw | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v18d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|---------|---------|---------|
| Phon: | ki | tov | - | - | - |
| Translation: | that | (it was) good | - | - | - |
| Phrase type: | ConjP | AP | - | - | - |
| SynF: | Conj | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v19a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v19b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|-------------|---------|---------|
| Phon: | vayehi | voker | yom rev'i'i | - | - |
| Translation: | and it was | morning | fourth day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen01v20a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v20b - Gen01v20c] | - | - |
| Translation: | and He said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v20b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|-----------|---------------------------------------|---------|---------|
| Phon: | yi\$recu | hamayim | \$erec nefe\$ xaya | - | - |
| Translation: | let they swarm | the water | (with) swarming things, living beings | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Subject | Complement | - | - |
| SemF: | Process | Processed | Reference | - | - |

Gen01v20c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------------|--------------|---------------|---|---------|
| Phon: | ve'of | ye'ofef | al ha'arec | al pney rekia ha\$amayim | - |
| Translation: | and flying creatures | let they fly | over the land | in front of the firmament of the heaven | - |
| Phrase type: | NP | VP | PP | PP | - |
| SynF: | Subject | Main verb | Complement | Adjunct | - |
| SemF: | Agent | Action | Location | Location | - |

Gen01v21a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|---------|---|---|---------|
| Phon: | vayivra | elohim | et hatanimim hagdolim ve'et kol nefe\$ haxaya haromeset [Gen01v21a] (leminehem) ve'et kol of kanaf (leminehu) | leminehem ... leminehu | - |
| Translation: | and He created | God | the big sea monsters and every swarming living being [Gen01v21b] (...) and every flying creature (with) wing(s) (...) | according to their kind ... according to its kind | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Action | Agent | Product | Manner | - |

Gen01v21b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|-----------|----------------|---------|---------|
| Phon: | a\$er | \$arcu | hamayim | - | - |
| Translation: | that | swarms | (in) the water | - | - |
| Phrase type: | RP | VP | NP | - | - |
| SynF: | Subject | Main verb | Adjunct | - | - |
| SemF: | Agent | Action | Location | - | - |

Gen01v21c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------|---------|---------|
| Phon: | vayar | elohim | [Gen01v21d] | - | - |
| Translation: | and He saw | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v21d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|---------|---------|---------|
| Phon: | ki | tov | - | - | - |
| Translation: | that | (it was) good | - | - | - |
| Phrase type: | ConjP | AP | - | - | - |
| SynF: | Conj | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v22a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|---------|---------|-------------------------------|---------|
| Phon: | vayvarex | otam | elohim | lemor [Gen01v22b - Gen01v22e] | - |
| Translation: | and he blessed | them | God | by saying [...] | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Object | Subject | Adjunct | - |
| SemF: | Action | Patient | Agent | Manner | - |

Gen01v22b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------|---------|---------|
| Phon: | pru | - | - | - | - |
| Translation: | be fruitful | - | - | - | - |
| Phrase type: | VP | - | - | - | - |
| SynF: | Main verb | - | - | - | - |
| SemF: | State | - | - | - | - |

Gen01v22c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------|---------|---------|---------|---------|
| Phon: | urvu | - | - | - | - |
| Translation: | and become numerous | - | - | - | - |
| Phrase type: | VP | - | - | - | - |
| SynF: | Main verb | - | - | - | - |
| SemF: | Process | - | - | - | - |

Gen01v22d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|----------------------|---------|---------|---------|
| Phon: | umil'u | et hamayim bayamim | - | - | - |
| Translation: | and fill | the water in the sea | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Main verb | Object | - | - | - |
| SemF: | Action | Patient | - | - | - |

Gen01v22e

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------------------|------------------------|--------------|---------|---------|
| Phon: | veha'of | yirev | ba'arec | - | - |
| Translation: | and the flying creature(s) | let it become numerous | on the earth | - | - |
| Phrase type: | NP | VP | PP | - | - |
| SynF: | Subject | Main verb | Adjunct | - | - |
| SemF: | Processed | Process | Location | - | - |

Gen01v23a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v23b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|-------------|---------|---------|
| Phon: | vayehi | voker | yom xami\$î | - | - |
| Translation: | and it was | morning | fifth day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen01v24a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v24a] | - | - |
| Translation: | and He said | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v24b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|--------------------|-----------|--|---|---------|
| Phon: | toce | ha'arec | nefe\$ xaya (leminah) behema varemes vexayto erc (leminah) | leminah ... leminah | - |
| Translation: | let it bring forth | the earth | living being(s) (...), animals and small animals and living beings of the land (...) | according to its kind ... according to its kind | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Process | Processed | Product | Manner | - |

Gen01v24c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | and it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v25a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|--|---|---------|
| Phon: | vaya'as | elohim | et xayat ha'arec (leminah) ve'et habhema (leminah) ve'et kol remes ha'adama (leminehu) | leminah ... leminah ... leminehu | - |
| Translation: | and He made | God | the living beings of the earth (...) and the animals (...) and all the small animals of the land (...) | according to its kind ... according to its kind ... according to its kind | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Action | Agent | Product | Manner | - |

Gen01v25b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|---------------|---------|---------|
| Phon: | vayar | elohim | [Gen01v25c] | - | - |
| Translation: | and He saw | God | [...] | - | - |
| Phrase type: | VP | NP | EC | - | - |
| SynF: | Main verb | Subject | Object clause | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v25c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|---------|---------|---------|
| Phon: | ki | tov | - | - | - |
| Translation: | that | (it was) good | - | - | - |
| Phrase type: | ConjP | AP | - | - | - |
| SynF: | Conj | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v26a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v26b - Gen01v26c] | - | - |
| Translation: | and He said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v26b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------------------|---------|---------|
| Phon: | na'aseh | adam | becalmenu kidmutenu | - | - |
| Translation: | let Us make | people | in our image, according to our form | - | - |
| Phrase type: | VP | NP | PP | - | - |
| SynF: | Main verb | Object | Adjunct | - | - |
| SemF: | Action | Product | Manner | - | - |

Gen01v26c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------------|--|---------|---------|---------|
| Phon: | veyirdu | vidgat hayam uv'of ha\$amayim uvabhema uvxol ha'arec uvxol haremes haromes al ha'arec | - | - | - |
| Translation: | and let them govern | over the fish of the sea and over the flying creatures of the heaven and over the animals and over the whole earth and over all the small animals that swarm on the earth | - | - | - |
| Phrase type: | VP | PP | - | - | - |
| SynF: | Main verb | Complement | - | - | - |
| SemF: | Agent | Patient | - | - | - |

Gen01v27a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|---------|------------|--------------|---------|
| Phon: | vayivra | elohim | et ha'adam | becalmo | - |
| Translation: | and he created | God | the people | in his image | - |
| Phrase type: | VP | NP | NP | PP | - |
| SynF: | Main verb | Subject | Object | Adjunct | - |
| SemF: | Action | Agent | Product | Manner | - |

Gen01v27b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------|------------|---------|---------|---------|
| Phon: | becelem elohim | bara | oto | - | - |
| Translation: | in the image of God | He created | him | - | - |
| Phrase type: | PP | VP | NP | - | - |
| SynF: | Adjunct | Main verb | Object | - | - |
| SemF: | Manner | Action | Product | - | - |

Gen01v27c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | zaxar unkeva | bara | otam | - | - |
| Translation: | male and female | He created | them | - | - |
| Phrase type: | AP | VP | NP | - | - |
| SynF: | Attribute | Main verb | Object | - | - |
| SemF: | Quality | Action | Product | - | - |

Gen01v28a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|---------|---------|---------|---------|
| Phon: | vayvarex | otam | elohim | - | - |
| Translation: | and He blessed | them | God | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Object | Subject | - | - |
| SemF: | Action | Patient | Agent | - | - |

Gen01v28b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v28b - Gen01v28g] | - | - |
| Translation: | and he said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v28c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------|---------|---------|
| Phon: | pru | - | - | - | - |
| Translation: | be fruitful | - | - | - | - |
| Phrase type: | VP | - | - | - | - |
| SynF: | Main verb | - | - | - | - |
| SemF: | State | - | - | - | - |

Gen01v28d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------------------|---------|---------|---------|---------|
| Phon: | urvu | - | - | - | - |
| Translation: | and become numerous | - | - | - | - |
| Phrase type: | VP | - | - | - | - |
| SynF: | Main verb | - | - | - | - |
| SemF: | Process | - | - | - | - |

Gen01v28e

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|------------|---------|---------|---------|
| Phon: | umil'u | et ha'arec | - | - | - |
| Translation: | and fill | the earth | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Main verb | Object | - | - | - |
| SemF: | Action | Patient | - | - | - |

Gen01v28f

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|---------|---------|---------|
| Phon: | vexiv\$uha | - | - | - | - |
| Translation: | and rule it | - | - | - | - |
| Phrase type: | VP | - | - | - | - |
| SynF: | Main verb | - | - | - | - |
| SemF: | Action | - | - | - | - |

Gen01v28g

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|---|---------|---------|---------|
| Phon: | urdu | bidgat hayam uv'of ha\$amayim uvxol xaya haromeset al ha'arec | - | - | - |
| Translation: | govern | over the fish of the sea and over the flying creatures of the heaven and over all the living beings that swarm on the earth | - | - | - |
| Phrase type: | VP | PP | - | - | - |
| SynF: | Main verb | Complement | - | - | - |
| SemF: | Action | Patient | - | - | - |

Gen01v29a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|---------|-------------------------|---------|---------|
| Phon: | vayomer | elohim | [Gen01v29a - Gen01v30b] | - | - |
| Translation: | and he said | God | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Subject | Object cluster | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen01v29b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------|-----------|----------|---|---------|
| Phon: | hineh | natati | laxem | et kol esev zorea zera [Gen01v29c] ve'et kol ha'ec [Gen01v29d] - Gen01v29e - (Gen01v30a:) ulxol xayat ha'arec ulxol of ha\$amayim ulxol romes al ha'arec [Gen01v30b] et kol yerek esev le'oxla | - |
| Translation: | behold | I give | to you | all green plants yielding seed [...] and all the tree(s) [...] - ... - and all the living beings of the earth and all the flying creatures of the heaven and all the small animals on the earth [...] and all greens plants, green plants as food | - |
| Phrase type: | ParticleP | VP | PP | NP | - |
| SynF: | Disjunct | Main verb | IndObj | Object | - |
| SemF: | - | Action | Receiver | Patient | - |

Gen01v29c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|--------------------------|---------|---------|---------|
| Phon: | a\$er | al pney kol ha'arec | - | - | - |
| Translation: | which | (are) on the whole earth | - | - | - |
| Phrase type: | RP | PP | - | - | - |
| SynF: | Subject | Copula-predicate | - | - | - |
| SemF: | Zero | Location | - | - | - |

Gen01v29d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------|----------------------------------|---------|---------|
| Phon: | a\$er | bo | pri ec zorea zara | - | - |
| Translation: | which | in it | (is) fruit of seed bearing trees | - | - |
| Phrase type: | RP | PP | NP | - | - |
| SynF: | Conj | Complement | Subject | - | - |
| SemF: | Zero | Location | Zero | - | - |

Gen01v29e

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------|------------|------------------|---------|---------|
| Phon: | laxem | yiheyeh | le'oxla | - | - |
| Translation: | to you | it will be | as food | - | - |
| Phrase type: | PP | VP | PP | - | - |
| SynF: | IndObj | Main verb | Copula-predicate | - | - |
| SemF: | Beneficiary | State | Purpose | - | - |

Gen01v30b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------------|--------------------------|---------|---------|
| Phon: | a\$er | bo | nefe\$ xaya | - | - |
| Translation: | which | in it | (there is) a living soul | - | - |
| Phrase type: | RP | PP | NP | - | - |
| SynF: | Conj | Copula-predicate | Subject | - | - |
| SemF: | - | Location | Zero | - | - |

Gen01v30c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|------------|---------|---------|---------|
| Phon: | vayehi | xen | - | - | - |
| Translation: | and it was | so | - | - | - |
| Phrase type: | VP | AdvP | - | - | - |
| SynF: | Copulative verb | Complement | - | - | - |
| SemF: | State | Manner | - | - | - |

Gen01v31a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|-----------|--------------------|---------|---------|
| Phon: | vayar | elohim | et kol [Gen01v31b] | - | - |
| Translation: | and He saw | God | everything [...] | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Subject | Object | - | - |
| SemF: | Process | Processed | Patient | - | - |

Gen01v31b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|-----------|---------|---------|---------|
| Phon: | a\$er | asa | - | - | - |
| Translation: | that | He made | - | - | - |
| Phrase type: | RP | VP | - | - | - |
| SynF: | Object | Main verb | - | - | - |
| SemF: | Product | Action | - | - | - |

Gen01v31c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|------------|--------------------|---------|---------|---------|
| Phon: | vehineh | tov me'od | - | - | - |
| Translation: | and behold | (it was) very good | - | - | - |
| Phrase type: | ParticleP | AP | - | - | - |
| SynF: | Disjunct | Copula-predicate | - | - | - |
| SemF: | - | Quality | - | - | - |

Gen01v31d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|---------|---------|---------|
| Phon: | vayehi | erev | - | - | - |
| Translation: | and it was | evening | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Copulative verb | Subject | - | - | - |
| SemF: | State | Zero | - | - | - |

Gen01v31e

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|-------------|---------|---------|
| Phon: | vayehi | voker | yom ha\$isi | - | - |
| Translation: | and it was | morning | sixth day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Copulative verb | Subject | Attribute | - | - |
| SemF: | State | Zero | Quality | - | - |

Gen02v01a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-------------------------|---|---------|---------|---------|
| Phon: | vayxullu | ha\$amayim veba'arec vexol cva'am | - | - | - |
| Translation: | and they were completed | the heaven and the earth and all their warriors | - | - | - |
| Phrase type: | VP | NP | - | - | - |
| SynF: | Main verb | Subject | - | - | - |
| SemF: | Action | Patient | - | - | - |

Gen02v02a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|-----------------|---------|--------------------|---------------------|---------|
| Phon: | vayxal | elohim | bayom ha\$vi'i | melaxto [Gen02v02b] | - |
| Translation: | and He finished | God | on the seventh day | his work [...] | - |
| Phrase type: | VP | NP | PP | NP | - |
| SynF: | Main verb | Subject | Adjunct | Object | - |
| SemF: | Action | Agent | Time | Patient | - |

Gen02v02b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|-----------|---------|---------|---------|
| Phon: | a\$er | asa | - | - | - |
| Translation: | that | He made | - | - | - |
| Phrase type: | RP | VP | - | - | - |
| SynF: | Object | Main verb | - | - | - |
| SemF: | Product | Action | - | - | - |

Gen02v02c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|--------------------|---------------------------|---------|---------|
| Phon: | vayi\$bot | bayom ha\$vi'i | mikol melaxto [Gen02v02d] | - | - |
| Translation: | and He stopped | on the seventh day | with all his work [...] | - | - |
| Phrase type: | VP | PP | PP | - | - |
| SynF: | Main verb | Adjunct | Complement | - | - |
| SemF: | Action | Time | Patient | - | - |

Gen02v02d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|-----------|---------|---------|---------|
| Phon: | a\$er | asa | - | - | - |
| Translation: | which | He made | - | - | - |
| Phrase type: | RP | VP | - | - | - |
| SynF: | Object | Main verb | - | - | - |
| SemF: | Product | Action | - | - | - |

Gen02v03a

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|----------------|---------|-----------------|---------|---------|
| Phon: | vayvarex | elohim | et yom ha\$vi'i | - | - |
| Translation: | and He blessed | God | the seventh day | - | - |
| Phrase type: | VP | NP | NP | - | - |
| SynF: | Main verb | Subject | Object | - | - |
| SemF: | Action | Agent | Patient | - | - |

Gen02v03b

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|--------------------|---------|-------------------------|---------|---------|
| Phon: | vaykade\$ | oto | [Gen02v03c - Gen02v03d] | - | - |
| Translation: | and He consecrated | it | [...] | - | - |
| Phrase type: | VP | NP | ECC | - | - |
| SynF: | Main verb | Object | Adjunct | - | - |
| SemF: | Action | Patient | Reason | - | - |

Gen02v03c

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|---------|------------|---------------------------|---------|
| Phon: | ki | vo | \$avat | mikol melaxto [Gen02v03d] | - |
| Translation: | because | in it | He stopped | with all his work [...] | - |
| Phrase type: | ConjP | PP | VP | PP | - |
| SynF: | Conj | Adjunct | Main verb | Complement | - |
| SemF: | - | Time | Action | Patient | - |

Gen02v03d

| Level | Phrase1 | Phrase2 | Phrase3 | Phrase4 | Phrase5 |
|--------------|---------|------------|---------|-----------|---------|
| Phon: | a\$er | bara | elohim | la'asot | - |
| Translation: | which | He created | God | by making | - |
| Phrase type: | RP | VP | NP | PP | - |
| SynF: | Object | Main verb | Subject | Adjunct | - |
| SemF: | Product | Action | Agent | Manner | - |

Addendum L: Source code of Chapter 5

```
'Module 1:
Option Explicit
Public Clause(1 To 200, 1 To 5, 1 To 6) As String
Public arrayMax As Integer

'Form1:
Option Explicit

'See Module1 for declaration of array Clause and arrayMax
Dim tempLine As String
Dim XMLstringBeginPos As Integer
Dim XMLstringEndPos As Integer
Dim XMLstringLength As Integer
Dim count1 As Integer
Dim arrayflag As Boolean
Dim iniArr1, iniArr2, iniArr3 As Integer
Dim countDelRec As Integer
Dim countDelRec2 As Integer
Dim count2, count3 As Integer
Dim filenum1 As Integer
Dim filenum2 As Integer
Dim outputname As String
Dim countAddRec As Integer
Dim countAddRec2 As Integer
Dim count4, count5 As Integer

Public Sub Command1_Click() 'Read XML file from disk into array

Dim countclauses As Integer
```



```
For iniArr1 = 1 To 200 'Initialise all array elements with empty element symbols
  For iniArr2 = 1 To 5
    For iniArr3 = 1 To 6
      Clause(iniArr1, iniArr2, iniArr3) = "-"
    Next
  Next
Next
```

```
arrayMax = 0 'Reset total number of clauses in array
countclauses = 0 'Reset counter that counts number of clauses in XML file
```

```
filenum1 = FreeFile
```

```
'Count number of clauses in the XML cube:
Open "Gen1_InputV15_RT1.xml" For Input As #filenum1
```

```
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
```

```
While Not EOF(filenum1)
  Line Input #filenum1, tempLine
  countclauses = countclauses + 1
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
  Line Input #filenum1, tempLine
```



```

Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Wend
MsgBox ("There are " & countclauses & " clauses in the XML cube")
arrayMax = countclauses
Close #filenum1

' Populate array with data from XML file:
Open "Gen1_InputV15_RT1.xml" For Input As #filenum1

Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine

For count1 = 1 To arrayMax

Line Input #filenum1, tempLine

Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)

```

```
Clause(count1, 1, 1) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine  
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine  
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)  
Clause(count1, 1, 2) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine  
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)  
Clause(count1, 2, 2) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine  
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)  
Clause(count1, 3, 2) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine  
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)  
Clause(count1, 4, 2) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine  
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 5, 2) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 1, 3) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 2, 3) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 3, 3) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 4, 3) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
```

```
Clause(count1, 5, 3) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
```

```
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 1, 4) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 2, 4) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 3, 4) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 4, 4) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 5, 4) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 1, 5) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 2, 5) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 3, 5) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 4, 5) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 5, 5) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
Line Input #filenum1, tempLine
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 1, 6) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 2, 6) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 3, 6) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```
Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 4, 6) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)
```

```

Line Input #filenum1, tempLine
Call DecodeXML(XMLstringBeginPos, XMLstringEndPos, XMLstringLength, tempLine)
Clause(count1, 5, 6) = Mid(tempLine, XMLstringBeginPos, XMLstringLength)

Line Input #filenum1, tempLine
Line Input #filenum1, tempLine

Next

Close #filenum1
arrayflag = True

MsgBox ("XML cube Gen1_InputV15_RT1.xml converted to array in RAM")

count1 = 1
Call ShowArray

End Sub

Private Sub btnFirst_Click(Index As Integer) 'Move to the first element in the array

count1 = 1
Call ShowArray

End Sub

Private Sub btnPrev_Click(Index As Integer) 'Move to the previous element in the array

If count1 = 1 Then
    count1 = (arrayMax + 1)

```



```

End If
count1 = count1 - 1
Call ShowArray

End Sub

Private Sub btnNext_Click(Index As Integer) 'Move to the next element in the array

If count1 = arrayMax Then
    count1 = 0
End If
count1 = count1 + 1
Call ShowArray

End Sub

Private Sub btnLast_Click(Index As Integer) 'Move to the last element in the array

count1 = arrayMax
Call ShowArray

End Sub

Private Sub btnFind_Click() ' Show clause of number shown in textbox "Find clause no"
Dim cntFnd1, cntFnd2, cntFnd3

count1 = txtFind.Text
If count1 > arrayMax Or count1 < 1 Then
    MsgBox ("Invalid clause no")
    Exit Sub
Else

```

```

    Call ShowArray
End If

End Sub

Private Sub btnSearch_Click() 'Exact search
Dim countSrch1, countSrch2, countSrch3, flagSrch As Integer

count1 = 1
flagSrch = 0
If txtSearch.Text = "" Then
    Exit Sub
End If

For countSrch1 = 1 To arrayMax
    For countSrch2 = 1 To 5
        For countSrch3 = 1 To 6
            If StrComp(Clause(countSrch1, countSrch2, countSrch3), txtSearch.Text, 1) = 0 Then
                flagSrch = 1
                count1 = countSrch1
                Call ShowArray
                MsgBox ("Click OK to search next")
            End If
        Next
    Next
Next

If flagSrch = 0 Then
    MsgBox ("Not found")
Else
    MsgBox ("End of data cube reached")

```

```
End If
```

```
End Sub
```

```
Private Sub cmdSearchPart_Click() 'Fuzzy search  
Dim countSrch4, countSrch5, countSrch6, flagSrch, pos As Integer
```

```
count1 = 1
```

```
flagSrch = 0
```

```
If txtSearchPart.Text = "" Then
```

```
Exit Sub
```

```
End If
```

```
For countSrch4 = 1 To arrayMax
```

```
For countSrch5 = 1 To 5
```

```
For countSrch6 = 1 To 6
```

```
pos = InStr(1, Clause(countSrch4, countSrch5, countSrch6), txtSearchPart.Text, 1)
```

```
If pos > 0 Then
```

```
flagSrch = 1
```

```
count1 = countSrch4
```

```
Call ShowArray
```

```
MsgBox ("Click OK to search next")
```

```
End If
```

```
Next
```

```
Next
```

```
Next
```

```
If flagSrch = 0 Then
```

```
MsgBox ("Not found")
```

```
Else
```

```
MsgBox ("End of data cube reached")
```

```
End If
```

```
End Sub
```

```
Private Sub Command2_Click() 'Accept changes in this clause (RAM)
```

```
    Clause(count1, 1, 1) = txtC111.Text
```

```
    Clause(count1, 1, 2) = txtC112.Text
```

```
    Clause(count1, 2, 2) = txtC122.Text
```

```
    Clause(count1, 3, 2) = txtC132.Text
```

```
    Clause(count1, 4, 2) = txtC142.Text
```

```
    Clause(count1, 5, 2) = txtC152.Text
```

```
    Clause(count1, 1, 3) = txtC113.Text
```

```
    Clause(count1, 2, 3) = txtC123.Text
```

```
    Clause(count1, 3, 3) = txtC133.Text
```

```
    Clause(count1, 4, 3) = txtC143.Text
```

```
    Clause(count1, 5, 3) = txtC153.Text
```

```
    Clause(count1, 1, 4) = txtC114.Text
```

```
    Clause(count1, 2, 4) = txtC124.Text
```

```
    Clause(count1, 3, 4) = txtC134.Text
```

```
    Clause(count1, 4, 4) = txtC144.Text
```

```
    Clause(count1, 5, 4) = txtC154.Text
```

```
    Clause(count1, 1, 5) = txtC115.Text
```

```
    Clause(count1, 2, 5) = txtC125.Text
```

```
    Clause(count1, 3, 5) = txtC135.Text
```

```
    Clause(count1, 4, 5) = txtC145.Text
```

```
    Clause(count1, 5, 5) = txtC155.Text
```

```
    Clause(count1, 1, 6) = txtC116.Text
```

```
    Clause(count1, 2, 6) = txtC126.Text
```

```
    Clause(count1, 3, 6) = txtC136.Text
```

```
    Clause(count1, 4, 6) = txtC146.Text
```

```
    Clause(count1, 5, 6) = txtC156.Text
```

```
End Sub
```

```
Private Sub Command4_Click() 'Insert new clause before current one into array
```

```
arrayMax = arrayMax + 1
```

```
For countAddRec = (arrayMax - 1) To count1 Step -1
```

```
countAddRec2 = countAddRec + 1
```

```
For count4 = 1 To 5
```

```
For count5 = 1 To 6
```

```
Clause(countAddRec2, count4, count5) = Clause(countAddRec, count4, count5)
```

```
Next
```

```
Next
```

```
Next
```

```
For count4 = 1 To 5 'Clear new element in array
```

```
For count5 = 1 To 6
```

```
Clause(count1, count4, count5) = "-"
```

```
Next
```

```
Next
```

```
Call ShowArray
```

```
End Sub
```

```
Private Sub Command7_Click() 'Insert new clause after current one in array
```

```
arrayMax = arrayMax + 1
```

```
count1 = count1 + 1
```

```
For countAddRec = (arrayMax - 1) To (count1) Step -1
```

```

countAddRec2 = countAddRec + 1
For count4 = 1 To 5
  For count5 = 1 To 6
    Clause(countAddRec2, count4, count5) = Clause(countAddRec, count4, count5)
  Next
Next
Next

For count4 = 1 To 5 'Clear new element in array
  For count5 = 1 To 6
    Clause(count1, count4, count5) = "-"
  Next
Next

Call ShowArray

End Sub

Private Sub Command5_Click() ' Delete this clause

For countDelRec = count1 To (arrayMax - 1)
  countDelRec2 = countDelRec + 1
  For count2 = 1 To 5
    For count3 = 1 To 6
      Clause(countDelRec, count2, count3) = Clause(countDelRec2, count2, count3)
    Next
  Next
Next

For count2 = 1 To 5 'Clear last element in array
  For count3 = 1 To 6

```

```

    Clause(arrayMax, count2, count3) = "-"
Next
Next

If count1 = arrayMax Then
    count1 = count1 - 1
End If

arrayMax = arrayMax - 1

Call ShowArray

End Sub

Public Sub Command3_Click() 'Write array to XML file on disk

If arrayflag = False Then
    MsgBox ("Array is empty - not saved")
    Exit Sub
End If

filenum2 = FreeFile

'outputname = "Gen1V15_Output_" & Format(Now, "yyyymmddhhmmss") & ".xml" 'Create unique output file name
outputname = "Gen1_InputV15_RT1.xml"

Open outputname For Output As #filenum2
Print #filenum2, "<?xml version='1.0' encoding='UTF-8' standalone='yes' ?>"
Print #filenum2, "<?xml-stylesheet type='text/css' href='Gen1XMLdb03c.css'?>"
Print #filenum2, "<Genesis1v1-2v3>"

```

```

For count1 = 1 To arrayMax
Print #filenum2, "    <clause>"
Print #filenum2, "        <clauseno>" & Clause(count1, 1, 1) & "</clauseno>"
Print #filenum2, "    <headers>"
Print #filenum2, "        <header>Level</header>"
Print #filenum2, "        <header>Phrase1</header>"
Print #filenum2, "        <header>Phrase2</header>"
Print #filenum2, "        <header>Phrase3</header>"
Print #filenum2, "        <header>Phrase4</header>"
Print #filenum2, "        <header>Phrase5</header>"
Print #filenum2, "    </headers>"
Print #filenum2, "    <level1>"
Print #filenum2, "        <leveldesc>Phon:</leveldesc>"
Print #filenum2, "        <phrase1>" & Clause(count1, 1, 2) & "</phrase1>"
Print #filenum2, "        <phrase2>" & Clause(count1, 2, 2) & "</phrase2>"
Print #filenum2, "        <phrase3>" & Clause(count1, 3, 2) & "</phrase3>"
Print #filenum2, "        <phrase4>" & Clause(count1, 4, 2) & "</phrase4>"
Print #filenum2, "        <phrase5>" & Clause(count1, 5, 2) & "</phrase5>"
Print #filenum2, "    </level1>"
Print #filenum2, "    <level2>"
Print #filenum2, "        <leveldesc>Translation:</leveldesc>"
Print #filenum2, "        <phrase1>" & Clause(count1, 1, 3) & "</phrase1>"
Print #filenum2, "        <phrase2>" & Clause(count1, 2, 3) & "</phrase2>"
Print #filenum2, "        <phrase3>" & Clause(count1, 3, 3) & "</phrase3>"
Print #filenum2, "        <phrase4>" & Clause(count1, 4, 3) & "</phrase4>"
Print #filenum2, "        <phrase5>" & Clause(count1, 5, 3) & "</phrase5>"
Print #filenum2, "    </level2>"
Print #filenum2, "    <level3>"
Print #filenum2, "        <leveldesc>Phrase type:</leveldesc>"
Print #filenum2, "        <phrase1>" & Clause(count1, 1, 4) & "</phrase1>"
Print #filenum2, "        <phrase2>" & Clause(count1, 2, 4) & "</phrase2>"

```



```

Print #filenum2, "      <phrase3>" & Clause(count1, 3, 4) & "</phrase3>"
Print #filenum2, "      <phrase4>" & Clause(count1, 4, 4) & "</phrase4>"
Print #filenum2, "      <phrase5>" & Clause(count1, 5, 4) & "</phrase5>"
Print #filenum2, "    </level3>"
Print #filenum2, "    <level4>"
Print #filenum2, "      <leveldesc>SynF:</leveldesc>"
Print #filenum2, "      <phrase1>" & Clause(count1, 1, 5) & "</phrase1>"
Print #filenum2, "      <phrase2>" & Clause(count1, 2, 5) & "</phrase2>"
Print #filenum2, "      <phrase3>" & Clause(count1, 3, 5) & "</phrase3>"
Print #filenum2, "      <phrase4>" & Clause(count1, 4, 5) & "</phrase4>"
Print #filenum2, "      <phrase5>" & Clause(count1, 5, 5) & "</phrase5>"
Print #filenum2, "    </level4>"
Print #filenum2, "    <level5>"
Print #filenum2, "      <leveldesc>SemF:</leveldesc>"
Print #filenum2, "      <phrase1>" & Clause(count1, 1, 6) & "</phrase1>"
Print #filenum2, "      <phrase2>" & Clause(count1, 2, 6) & "</phrase2>"
Print #filenum2, "      <phrase3>" & Clause(count1, 3, 6) & "</phrase3>"
Print #filenum2, "      <phrase4>" & Clause(count1, 4, 6) & "</phrase4>"
Print #filenum2, "      <phrase5>" & Clause(count1, 5, 6) & "</phrase5>"
Print #filenum2, "    </level5>"
Print #filenum2, "  </clause>"

```

Next

```
Print #filenum2, "</Genesis1v1-2v3>"
```

```
Close #filenum2
```

```
MsgBox ("Array converted to XML and saved as " & outputname)
```

End Sub

```
' Function used to strip XML tags before inserting data into array
```

```
Public Sub DecodeXML(XMLstringBeginPos2 As Integer, XMLstringEndPos2 As Integer, XMLstringLength2 As Integer, templine2 As String)
    XMLstringBeginPos2 = InStr(templine2, ">") + 1
    XMLstringEndPos2 = InStrRev(templine2, "<")
    XMLstringLength2 = XMLstringEndPos2 - XMLstringBeginPos2
End Sub
```

```
Public Sub ShowArray() 'Procedure used to display current clause on interface
    txtFind.Text = count1
    txtC111.Text = Clause(count1, 1, 1)
    txtC112.Text = Clause(count1, 1, 2)
    txtC122.Text = Clause(count1, 2, 2)
    txtC132.Text = Clause(count1, 3, 2)
    txtC142.Text = Clause(count1, 4, 2)
    txtC152.Text = Clause(count1, 5, 2)
    txtC113.Text = Clause(count1, 1, 3)
    txtC123.Text = Clause(count1, 2, 3)
    txtC133.Text = Clause(count1, 3, 3)
    txtC143.Text = Clause(count1, 4, 3)
    txtC153.Text = Clause(count1, 5, 3)
    txtC114.Text = Clause(count1, 1, 4)
    txtC124.Text = Clause(count1, 2, 4)
    txtC134.Text = Clause(count1, 3, 4)
    txtC144.Text = Clause(count1, 4, 4)
    txtC154.Text = Clause(count1, 5, 4)
    txtC115.Text = Clause(count1, 1, 5)
    txtC125.Text = Clause(count1, 2, 5)
    txtC135.Text = Clause(count1, 3, 5)
    txtC145.Text = Clause(count1, 4, 5)
    txtC155.Text = Clause(count1, 5, 5)
    txtC116.Text = Clause(count1, 1, 6)
```

```
txtC126.Text = Clause(count1, 2, 6)
txtC136.Text = Clause(count1, 3, 6)
txtC146.Text = Clause(count1, 4, 6)
txtC156.Text = Clause(count1, 5, 6)
End Sub
```

Addendum M: Source code of Chapter 6

Experiment 1 (Unique semantic role frameworks)

```
Option Explicit
```

```
Dim arrSem1(1 To 200, 1 To 6) As String
```

```
Dim countf21, countf22 As Integer
```

```
Dim arrSem2(1 To 200, 1 To 2) As String
```

```
Dim temp, temp2 As String
```

```
'Slice, validate and number semantic functions
```

```
Public Sub cmdSliceSem_Click() 'Load semantic role frames into arrSem1
```

```
For countf21 = 1 To arrayMax 'Slice semantic frames into new 2D array
```

```
arrSem1(countf21, 6) = Clause(countf21, 1, 1) 'Store verse no as reference
```

```
For countf22 = 1 To 5
```

```
arrSem1(countf21, countf22) = Clause(countf21, countf22, 6)
```

```
'Number semantic functions to facilitate logical ordering
```

```
If arrSem1(countf21, countf22) = "-" Then 'Number null value as last  
semantic function
```

```
arrSem1(countf21, countf22) = "98. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Action" Then
```

```
arrSem1(countf21, countf22) = "01. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Position" Then
```

```
arrSem1(countf21, countf22) = "02. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Process" Then
```

```
arrSem1(countf21, countf22) = "03. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "State" Then
```

```
arrSem1(countf21, countf22) = "04. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Agent" Then
```

```
arrSem1(countf21, countf22) = "05. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Positioner" Then
```

```
arrSem1(countf21, countf22) = "06. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Force" Then
```

```
arrSem1(countf21, countf22) = "07. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Processed" Then
```

```
arrSem1(countf21, countf22) = "08. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Zero" Then
```

```
arrSem1(countf21, countf22) = "09. " & arrSem1(countf21, countf22)
```

```
ElseIf arrSem1(countf21, countf22) = "Patient" Then
```

```
arrSem1(countf21, countf22) = "10a. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Product" Then
arrSem1(countf21, countf22) = "10b. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Receiver" Then
arrSem1(countf21, countf22) = "11. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Location" Then
arrSem1(countf21, countf22) = "12. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Direction" Then
arrSem1(countf21, countf22) = "13. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Source" Then
arrSem1(countf21, countf22) = "14. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Reference" Then
arrSem1(countf21, countf22) = "15. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Beneficiary" Then
arrSem1(countf21, countf22) = "16. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Company" Then
arrSem1(countf21, countf22) = "17. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Instrument" Then
arrSem1(countf21, countf22) = "18. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Manner" Then
arrSem1(countf21, countf22) = "19. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Speed" Then
arrSem1(countf21, countf22) = "20. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Role" Then
arrSem1(countf21, countf22) = "21. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Path" Then
arrSem1(countf21, countf22) = "22. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Time" Then
arrSem1(countf21, countf22) = "23. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Circumstance" Then
arrSem1(countf21, countf22) = "26. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Result" Then
arrSem1(countf21, countf22) = "27. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Purpose" Then
arrSem1(countf21, countf22) = "28. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Reason" Then
arrSem1(countf21, countf22) = "29. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Cause" Then
arrSem1(countf21, countf22) = "30. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Possessor" Then
arrSem1(countf21, countf22) = "31. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Identification" Then
arrSem1(countf21, countf22) = "32. " & arrSem1(countf21, countf22)
```

```

ElseIf arrSem1(countf21, countf22) = "Classification" Then
    arrSem1(countf21, countf22) = "33. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Quality" Then
    arrSem1(countf21, countf22) = "34. " & arrSem1(countf21, countf22)
ElseIf arrSem1(countf21, countf22) = "Existence" Then
    arrSem1(countf21, countf22) = "35. " & arrSem1(countf21, countf22)
'Clean data if following message is shown:
Else: MsgBox ("Semf " & arrSem1(countf21, countf22) & " in vs " &
    arrSem1(countf21, 6) & " could not be numbered")
End If
Next
Next

temp2 = "SLICE OF SEMANTIC FUNCTION FRAMES EXTRACTED FROM GEN 1:1-2:3 DATA
CUBE"
Call showArrSem1

End Sub

'Sorting the semantic functions in each row

Public Sub btnSortEls_Click()

Dim count1, count2, count3 As Integer

Dim temp As String
Dim ix1, ix2, ix3 As Integer
count1 = 1
count2 = 1
count3 = 1
ix1 = 1
ix2 = 1
ix3 = 1

For count1 = 1 To arrayMax ' Simple sort algorithm used
    For count2 = 1 To 5
        ix3 = count2 + 1
        For count3 = count2 To 4
            If arrSem1(ix1, ix3) < arrSem1(ix1, ix2) Then
                temp = arrSem1(ix1, ix2)
                arrSem1(ix1, ix2) = arrSem1(ix1, ix3)
                arrSem1(ix1, ix3) = temp
            End If
        Next
    Next
Next

```

```

        ix3 = ix3 + 1
    Next
    ix2 = ix2 + 1
Next
ix1 = ix1 + 1
ix2 = 1
ix3 = 1
Next

temp2 = "SEMANTIC FUNCTION FRAMES LOGICALLY ORDERED USING NUMBERS"
Call showArrSem1

End Sub

'Concatenate each row

Private Sub btnConcat_Click()
Dim count1, count2 As Integer
Dim concatString

For countf21 = 1 To arrayMax
    For countf22 = 1 To 5 'Remove number 98 inserted for sorting of zero elements
        If arrSem1(countf21, countf22) = "98. -" Then
            arrSem1(countf21, countf22) = "-"
        End If
    Next
Next

Text1.Text = ""
concatString = "SEMANTIC FUNCTIONS OF EACH CLAUSE/ROW CONCATENATED TO FORM A
    UNIT" & vbCrLf

For count1 = 1 To arrayMax
    arrSem2(count1, 1) = arrSem1(count1, 1) & " + " & arrSem1(count1, 2) & " + "
        & arrSem1(count1, 3) & " + " & arrSem1(count1, 4) & " + " &
            arrSem1(count1, 5)
    arrSem2(count1, 2) = arrSem1(count1, 6) & " (Clause" & Str(count1) & ")"
    concatString = concatString & vbCrLf & arrSem2(count1, 1) & ". Reference: " &
        arrSem2(count1, 2)
Next

Text1.Text = concatString

```

```

End Sub

' Order the rows with reference to each other to group unique frames

Private Sub cmdOrderRows_Click()

Dim smallest, smallest2, tempString As String 'temp holder
Dim curSmallPos, numEls, i, j, a As Integer

numEls = arrayMax
curSmallPos = 1 'Cf Robertson (2000: 265-266) for the selection-sort algorithm

While curSmallPos <= (numEls - 1)
  i = curSmallPos
  smallest = arrSem2(i, 1)
  smallest2 = arrSem2(i, 2)
  j = i + 1

  While j <= numEls
    If arrSem2(j, 1) < smallest Then
      i = j
      smallest = arrSem2(j, 1)
      smallest2 = arrSem2(j, 2)
    End If
    j = j + 1
  Wend

  arrSem2(i, 1) = arrSem2(curSmallPos, 1)
  arrSem2(i, 2) = arrSem2(curSmallPos, 2)
  arrSem2(curSmallPos, 1) = smallest
  arrSem2(curSmallPos, 2) = smallest2
  curSmallPos = curSmallPos + 1

Wend

'Reorder subsets
'Read contents of arrSem2 and add a merged frame and reference into arrSem3(1
to arrayMax, 1 to 3)
Dim rs1, rs2 As Integer
Dim arrSem3(1 To 200, 1 To 3)
For rs1 = 1 To arrayMax
  For rs2 = 1 To 2
    arrSem3(rs1, rs2) = arrSem2(rs1, rs2)

```



```

Next
  arrSem3(rs1, 3) = arrSem2(rs1, 1) & " " & arrSem2(rs1, 2)
Next

'Repeat selection sort on merged unit
Dim smallest3, b As Integer
curSmallPos = 1 'Cf Robertson (2000: 265-266) for the selection-sort algorithm

While curSmallPos <= (numEls - 1)
  i = curSmallPos
  smallest = arrSem3(i, 1)
  smallest2 = arrSem3(i, 2)
  smallest3 = arrSem3(i, 3)
  j = i + 1
  While j <= numEls
    If arrSem3(j, 3) < smallest3 Then
      i = j
      smallest = arrSem3(j, 1)
      smallest2 = arrSem3(j, 2)
      smallest3 = arrSem3(j, 3)
    End If
    j = j + 1
  Wend
  arrSem3(i, 1) = arrSem3(curSmallPos, 1)
  arrSem3(i, 2) = arrSem3(curSmallPos, 2)
  arrSem3(i, 3) = arrSem3(curSmallPos, 3)
  arrSem3(curSmallPos, 1) = smallest
  arrSem3(curSmallPos, 2) = smallest2
  arrSem3(curSmallPos, 3) = smallest3
  curSmallPos = curSmallPos + 1
Wend

'Read contents of arrSem3 back to arrSem2
For rs1 = 1 To arrayMax
  For rs2 = 1 To 2
    arrSem2(rs1, rs2) = arrSem3(rs1, rs2)
  Next
Next

'Print ordered array
Text1.Text() = ""
tempString = "SEMANTIC FUNCTION FRAMES OF ALL CLAUSES ORDERED LOGICALLY WRT
  EACH OTHER" & vbCrLf

```

```

For a = 1 To arrayMax
    tempString = tempString & vbCrLf & arrSem2(a, 1) & ". Reference: " &
        arrSem2(a, 2)
Next
Text1.Text() = tempString

End Sub

'Count unique frames and build reference strings - assume that frames have
    been sorted
Private Sub cmdCountFrames_Click()

'Use three parallel arrays to store unique frames, counts and references:
Dim arr2(200) As String 'Store unique strings/frames
Dim arr3(200) As Integer 'Count occurrences of unique string/frames
Dim arr4(200) As String 'Store indexes of occurrences/references
Dim a, i, j, k As Integer
Dim temp2 As String

arr2(1) = arrSem2(1, 1)
i = 1 'Value unchanged while rows match - place in new array
arr3(i) = 1
k = 1 'Value change when new row found - new value to be compared
arr4(i) = arrSem2(1, 2)

For j = 2 To arrayMax
    If arrSem2(j, 1) = arrSem2(k, 1) Then
        arr3(i) = arr3(i) + 1
        arr4(i) = arr4(i) & " " & vbCrLf & "      " & arrSem2(j, 2)
    Else
        i = i + 1
        arr2(i) = arrSem2(j, 1)
        arr3(i) = 1
        arr4(i) = arr4(i) & " " & arrSem2(j, 2)
        k = j
    End If
Next

Text1.Text() = ""
temp2 = "UNIQUE SEMANTIC FUNCTION FRAMES, NUMBER OF OCCURRENCES AND CLAUSE
    REFERENCES"
For a = 1 To i
    temp2 = temp2 & vbCrLf & vbCrLf & "Frame " & a & ": " & arr2(a) & _

```

```

    vbCrLf & "No of occurrences: " & arr3(a) & vbCrLf & "References: " & arr4(a)
Next
Text1.Text = temp2

End Sub

'Show slice (arrSem1) in textbox

Public Sub showArrSem1()
Text1.Text = ""
temp = ""

For countf21 = 1 To arrayMax
    temp2 = temp2 & vbCrLf & temp
    temp = "Clause " & Str(countf21) & ": "
    For countf22 = 1 To 6
        temp = temp & " + " & arrSem1(countf21, countf22)
    Next
Next

temp2 = temp2 & vbCrLf & temp
Text1.Text = temp2

End Sub

```

Experiment 2 (Mapping of semantic and syntactic functions)

Option Explicit

```
Dim count11, count12, count13, count14, count15, count16 As Integer
Dim arrSyn1(1 To 200, 1 To 5, 1 To 6)
Dim combSemSyn(1 To 37, 1 To 14) As Integer
Dim refSemSyn(1 To 37, 1 To 14, 1 To 2) As String 'Store types and references
Dim m, n, o, p, totCombs, totUniqueCombs, tucFlag As Integer
Dim toets11 As String
```

```
'Clean data - syntactic functions
Private Sub cmdCleanData_Click()
```

```
Dim toets11 As String
toets11 = ""
```

```
For count11 = 1 To arrayMax 'Copy array
  For count12 = 1 To 5
    For count13 = 1 To 6
      arrSyn1(count11, count12, count13) = Clause(count11, count12, count13)
    Next
  Next
Next
```

```
For count11 = 1 To arrayMax 'Check and number syntactic functions
  For count12 = 1 To 5
    For count13 = 5 To 5 'Check only syntactic function dimension
      'Here limited to those functions occurring in Gen 1:1-2:3
      If arrSyn1(count11, count12, 5) = "Main verb" Then
        arrSyn1(count11, count12, 5) = "01"
      ElseIf arrSyn1(count11, count12, 5) = "Copulative verb" Then
        arrSyn1(count11, count12, 5) = "02"
      ElseIf arrSyn1(count11, count12, 5) = "Subject" Then
        arrSyn1(count11, count12, 5) = "03"
      ElseIf arrSyn1(count11, count12, 5) = "Object" Then
        arrSyn1(count11, count12, 5) = "04"
      ElseIf arrSyn1(count11, count12, 5) = "Object clause" Then
        arrSyn1(count11, count12, 5) = "05"
      ElseIf arrSyn1(count11, count12, 5) = "Object cluster" Then
        arrSyn1(count11, count12, 5) = "06"
      ElseIf arrSyn1(count11, count12, 5) = "IndObj" Then
        arrSyn1(count11, count12, 5) = "07"
```

```

ElseIf arrSyn1(count11, count12, 5) = "Complement" Then
    arrSyn1(count11, count12, 5) = "08"
ElseIf arrSyn1(count11, count12, 5) = "Copula-predicate" Then
    arrSyn1(count11, count12, 5) = "09"
ElseIf arrSyn1(count11, count12, 5) = "Adjunct" Then
    arrSyn1(count11, count12, 5) = "10"
ElseIf arrSyn1(count11, count12, 5) = "Disjunct" Then
    arrSyn1(count11, count12, 5) = "11"
ElseIf arrSyn1(count11, count12, 5) = "Attribute" Then
    arrSyn1(count11, count12, 5) = "12"
ElseIf arrSyn1(count11, count12, 5) = "Conj" Then
    arrSyn1(count11, count12, 5) = "13"
ElseIf arrSyn1(count11, count12, 5) = "-" Then
    arrSyn1(count11, count12, 5) = "14" 'To count null synf values
'Clean data if following message is shown:
Else: MsgBox ("Synf " & arrSyn1(count11, count12, 5) & " in vs " &
    arrSyn1(count11, 1, 1) & " could not be numbered")
End If
Next
Next
Next

For count11 = 1 To arrayMax 'Show syntactic frames as combinations of numbers
For count12 = 1 To 5
For count13 = 5 To 5
toets11 = toets11 & " " & arrSyn1(count11, count12, 5)
Next
Next
toets11 = toets11 & " (" & arrSyn1(count11, 1, 1) & ", Clause " & count11 &
    ")" & vbCrLf
Next
Text1.Text = toets11

End Sub

'Clean data - semantic functions
Private Sub cmdNoSemf_Click()

For count11 = 1 To arrayMax 'Check and number semantic functions
For count12 = 1 To 5
For count13 = 5 To 5 'Check only semantic function dimension
If arrSyn1(count11, count12, 6) = "Action" Then
arrSyn1(count11, count12, 6) = "01"

```

```
ElseIf arrSyn1(count11, count12, 6) = "Position" Then
    arrSyn1(count11, count12, 6) = "02"
ElseIf arrSyn1(count11, count12, 6) = "Process" Then
    arrSyn1(count11, count12, 6) = "03"
ElseIf arrSyn1(count11, count12, 6) = "State" Then
    arrSyn1(count11, count12, 6) = "04"
ElseIf arrSyn1(count11, count12, 6) = "Agent" Then
    arrSyn1(count11, count12, 6) = "05"
ElseIf arrSyn1(count11, count12, 6) = "Positioner" Then
    arrSyn1(count11, count12, 6) = "06"
ElseIf arrSyn1(count11, count12, 6) = "Force" Then
    arrSyn1(count11, count12, 6) = "07"
ElseIf arrSyn1(count11, count12, 6) = "Processed" Then
    arrSyn1(count11, count12, 6) = "08"
ElseIf arrSyn1(count11, count12, 6) = "Zero" Then
    arrSyn1(count11, count12, 6) = "09"
ElseIf arrSyn1(count11, count12, 6) = "Patient" Then
    arrSyn1(count11, count12, 6) = "10"
ElseIf arrSyn1(count11, count12, 6) = "Product" Then
    arrSyn1(count11, count12, 6) = "11"
ElseIf arrSyn1(count11, count12, 6) = "Receiver" Then
    arrSyn1(count11, count12, 6) = "12"
ElseIf arrSyn1(count11, count12, 6) = "Location" Then
    arrSyn1(count11, count12, 6) = "13"
ElseIf arrSyn1(count11, count12, 6) = "Direction" Then
    arrSyn1(count11, count12, 6) = "14"
ElseIf arrSyn1(count11, count12, 6) = "Source" Then
    arrSyn1(count11, count12, 6) = "15"
ElseIf arrSyn1(count11, count12, 6) = "Reference" Then
    arrSyn1(count11, count12, 6) = "16"
ElseIf arrSyn1(count11, count12, 6) = "Beneficiary" Then
    arrSyn1(count11, count12, 6) = "17"
ElseIf arrSyn1(count11, count12, 6) = "Company" Then
    arrSyn1(count11, count12, 6) = "18"
ElseIf arrSyn1(count11, count12, 6) = "Instrument" Then
    arrSyn1(count11, count12, 6) = "19"
ElseIf arrSyn1(count11, count12, 6) = "Manner" Then
    arrSyn1(count11, count12, 6) = "20"
ElseIf arrSyn1(count11, count12, 6) = "Speed" Then
    arrSyn1(count11, count12, 6) = "21"
ElseIf arrSyn1(count11, count12, 6) = "Role" Then
    arrSyn1(count11, count12, 6) = "22"
ElseIf arrSyn1(count11, count12, 6) = "Path" Then
```

```

arrSyn1(count11, count12, 6) = "23"
ElseIf arrSyn1(count11, count12, 6) = "Time" Then
arrSyn1(count11, count12, 6) = "24"
ElseIf arrSyn1(count11, count12, 6) = "Circumstance" Then
arrSyn1(count11, count12, 6) = "27"
ElseIf arrSyn1(count11, count12, 6) = "Result" Then
arrSyn1(count11, count12, 6) = "28"
ElseIf arrSyn1(count11, count12, 6) = "Purpose" Then
arrSyn1(count11, count12, 6) = "29"
ElseIf arrSyn1(count11, count12, 6) = "Reason" Then
arrSyn1(count11, count12, 6) = "30"
ElseIf arrSyn1(count11, count12, 6) = "Cause" Then
arrSyn1(count11, count12, 6) = "31"
ElseIf arrSyn1(count11, count12, 6) = "Possessor" Then
arrSyn1(count11, count12, 6) = "32"
ElseIf arrSyn1(count11, count12, 6) = "Identification" Then
arrSyn1(count11, count12, 6) = "33"
ElseIf arrSyn1(count11, count12, 6) = "Classification" Then
arrSyn1(count11, count12, 6) = "34"
ElseIf arrSyn1(count11, count12, 6) = "Quality" Then
arrSyn1(count11, count12, 6) = "35"
ElseIf arrSyn1(count11, count12, 6) = "Existence" Then
arrSyn1(count11, count12, 6) = "36"
ElseIf arrSyn1(count11, count12, 6) = "-" Then
arrSyn1(count11, count12, 6) = "37" 'To count null semantic function
values
'Clean data if following message is shown:
Else: MsgBox ("Semf " & arrSyn1(count11, count12, 6) & " in vs " &
arrSyn1(count11, 1, 1) & " could not be numbered")
End If
Next
Next
Next

toets11 = ""
For count14 = 1 To arrayMax 'Show semantic frames
For count15 = 1 To 5
For count16 = 5 To 5
toets11 = toets11 & " " & arrSyn1(count14, count15, 6)
Next
Next
Next
toets11 = toets11 & " (" & arrSyn1(count14, 1, 1) & ", Clause " & count14 &
")" & vbCrLf

```

```

Next
Text1.Text = toets11

End Sub
'Calculate combinations and build references
Private Sub cmdCalcComb_Click()

For m = 1 To 37 'Start with each semantic function
  For n = 1 To 14 'Combine with each syntactic function
    combSemSyn(m, n) = 0 'Reset all counts to zero
  Next
Next

toets11 = ""
totCombs = 0
totUniqueCombs = 0
tucFlag = 0 'Boolean to signal if new unique combination is found

For m = 1 To 37 ' Start with each semantic function
  For n = 1 To 14 ' Combine with each syntactic function
    tucFlag = 0
    For o = 1 To arrayMax 'Work through all rows/clauses
      For p = 1 To 5 'Work through all columns/constituents
        If Val(arrSyn1(o, p, 6)) = m And Val(arrSyn1(o, p, 5)) = n Then
          combSemSyn(m, n) = combSemSyn(m, n) + 1 'Add 1 to count if combination
            is found
          totCombs = totCombs + 1
          tucFlag = 1
          refSemSyn(m, n, 2) = refSemSyn(m, n, 2) & " " & arrSyn1(o, 1, 1) & " -
            " & "Clause " & o & vbCrLf 'Add verse no to reference string
        End If
      Next
    Next
    If tucFlag = 1 Then
      totUniqueCombs = totUniqueCombs + 1
    End If
  Next
Next

toets11 = "Total combinations found: " & totCombs
toets11 = toets11 & vbCrLf & "Total unique combinations found: " &
  totUniqueCombs & vbCrLf & vbCrLf

```



```

For m = 1 To 37 'Show table
  For n = 1 To 14
    toets11 = toets11 & " " & combSemSyn(m, n) 'Create output table
  Next
  toets11 = toets11 & vbCrLf
Next
Text1.Text = toets11

```

```
End Sub
```

```
'Build slice in refSemSyn to capture combination types
```

```
Private Sub cmdOutput_Click()
```

```
Dim combTypeA, combTypeB, combType As String
```

```
For m = 1 To 37 'Start with each semantic function
```

```
  combTypeA = "semf"
```

```
  Select Case m
```

```
    Case 1
```

```
      combTypeA = "Action"
```

```
    Case 2
```

```
      combTypeA = "Position"
```

```
    Case 3
```

```
      combTypeA = "Process"
```

```
    Case 4
```

```
      combTypeA = "State"
```

```
    Case 5
```

```
      combTypeA = "Agent"
```

```
    Case 6
```

```
      combTypeA = "Positioner"
```

```
    Case 7
```

```
      combTypeA = "Force"
```

```
    Case 8
```

```
      combTypeA = "Processed"
```

```
    Case 9
```

```
      combTypeA = "Zero"
```

```
    Case 10
```

```
      combTypeA = "Patient"
```

```
    Case 11
```

```
      combTypeA = "Product"
```

```
    Case 12
```

```
      combTypeA = "Receiver"
```

Case 13
combTypeA = "Location"
Case 14
combTypeA = "Direction"
Case 15
combTypeA = "Source"
Case 16
combTypeA = "Reference"
Case 17
combTypeA = "Beneficiary"
Case 18
combTypeA = "Company"
Case 19
combTypeA = "Instrument"
Case 20
combTypeA = "Manner"
Case 21
combTypeA = "Speed"
Case 22
combTypeA = "Role"
Case 23
combTypeA = "Path"
Case 24
combTypeA = "Time"
Case 25
combTypeA = "Duration"
Case 26
combTypeA = "Frequency"
Case 27
combTypeA = "Circumstance"
Case 28
combTypeA = "Result"
Case 29
combTypeA = "Purpose"
Case 30
combTypeA = "Reason"
Case 31
combTypeA = "Cause"
Case 32
combTypeA = "Possessor"
Case 33
combTypeA = "Identification"
Case 34

```

    combTypeA = "Classification"
Case 35
    combTypeA = "Quality"
Case 36
    combTypeA = "Existence"
Case 37
    combTypeA = "-"
Case Else
MsgBox ("Semantic function no " & m & " not listed.")
End Select

```

```

For n = 1 To 14 'Combine with each syntactic function

```

```

    combTypeB = "synf"
Select Case n
Case 1
    combTypeB = "Main verb"
Case 2
    combTypeB = "Copulative verb"
Case 3
    combTypeB = "Subject"
Case 4
    combTypeB = "Object"
Case 5
    combTypeB = "Object clause"
Case 6
    combTypeB = "Object cluster"
Case 7
    combTypeB = "IndObj"
Case 8
    combTypeB = "Complement"
Case 9
    combTypeB = "Copula-predicate"
Case 10
    combTypeB = "Adjunct"
Case 11
    combTypeB = "Disjunct"
Case 12
    combTypeB = "Attribute"
Case 13
    combTypeB = "Conj"
Case 14
    combTypeB = "-"
Case Else

```

```

    MsgBox ("Syntactic function no " & n & " not listed.")
End Select

combType = combTypeA & (" = ") & combTypeB 'Combine semantic and syntactic
    function
refSemSyn(m, n, 1) = combType
Next
Next

'Show table - list of all possible combinations
toets11 = "Possible combinations of semantic functions and syntactic functions
    tested:" & vbCrLf & vbCrLf

For m = 1 To 37
    For n = 1 To 14
        toets11 = toets11 & "    " & refSemSyn(m, n, 1) & vbCrLf ' Create output -
            combination type
        Next
        toets11 = toets11 & vbCrLf
    Next
Next
Text1.Text = toets11

End Sub

'Prepare and show human-readable output - list combinations with frequencies

Private Sub cmdOutput2_Click()
Dim flagRefFound As Integer

toets11 = "Combinations of semantic functions and syntactic functions found in
    Genesis 1:1-2:3" & vbCrLf & vbCrLf
toets11 = toets11 & "Total of possible combinations explored: " & totCombs
toets11 = toets11 & vbCrLf & "Total unique combinations found: " &
    totUniqueCombs & vbCrLf & vbCrLf

For m = 1 To 37 'Show table - show only occurring mappings
    For n = 1 To 14
        If refSemSyn(m, n, 2) <> "" Then
            toets11 = toets11 & "" & refSemSyn(m, n, 1) 'Create output - combination
                type
            toets11 = toets11 & " (" & combSemSyn(m, n) & "x)" & vbCrLf 'Create output
                - frequency
        End If
    Next
Next

```

```
    toets11 = toets11 & "" & refSemSyn(m, n, 2) & vbCrLf 'List reference
string after combination type
    End If
Next
    toets11 = toets11 & vbCrLf
Next

Text1.Text = toets11

End Sub
```