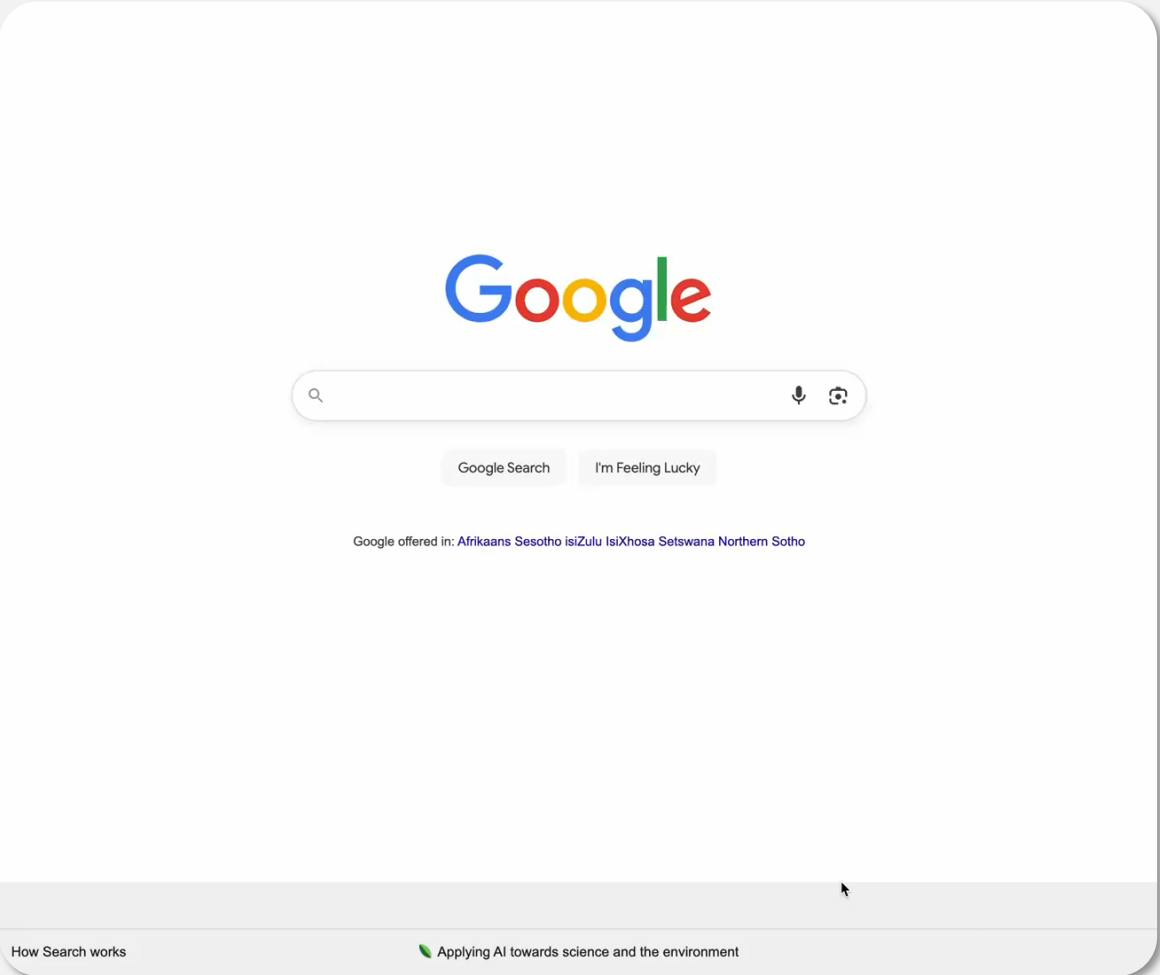


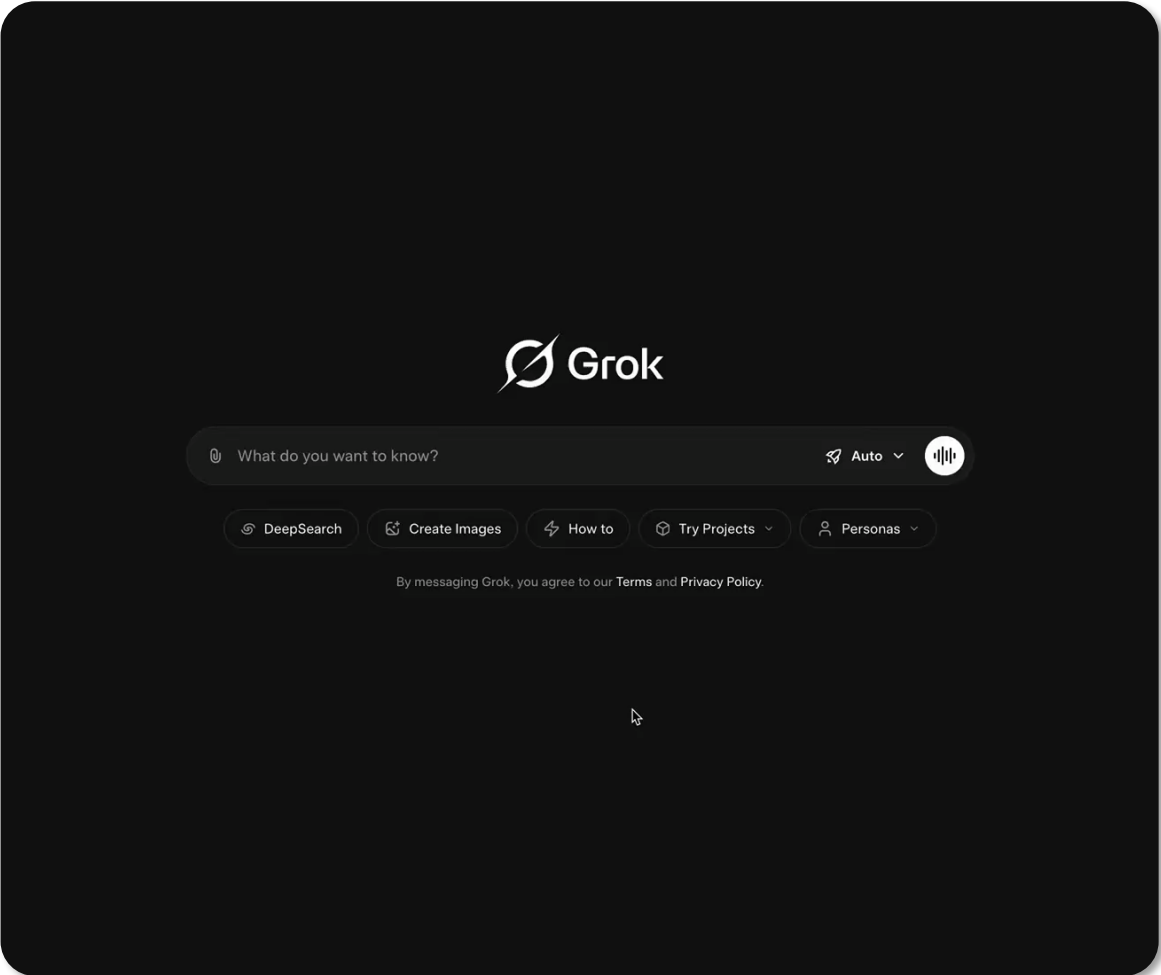
Beyond AI Prompting

Design + Learn

Google Question

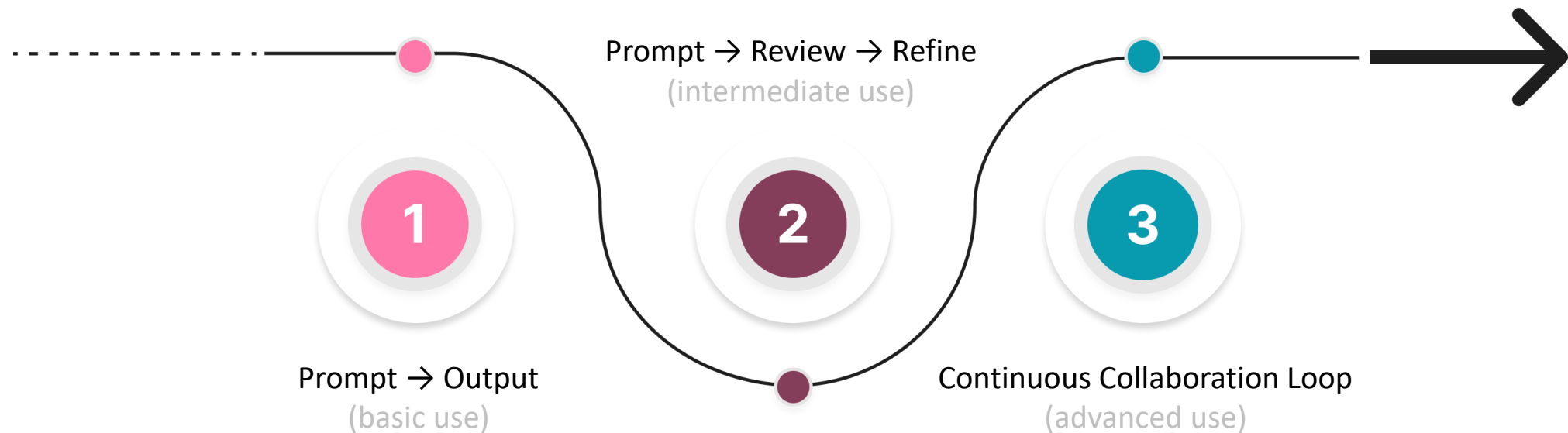


Grok [basic] AI Prompt



You're using it wrong

AI isn't just a tool for answers. It's a collaborator for improvement.



What's really going to be taking place??

- I. The Shift Beyond Prompting
- II. AI as a Continuous Feedback Loop
- III. AI-Assisted User Testing
- IV. Real-Time Accessibility Validation
- V. Learning While Designing
- VI. Live Demo: *The Design QA Agent*
- VII. The Future of AI Collaboration



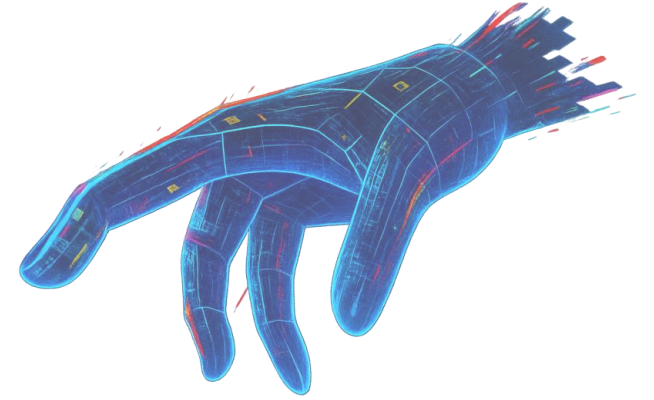
Why Prompting Isn't Enough

Old Model:



New Model:





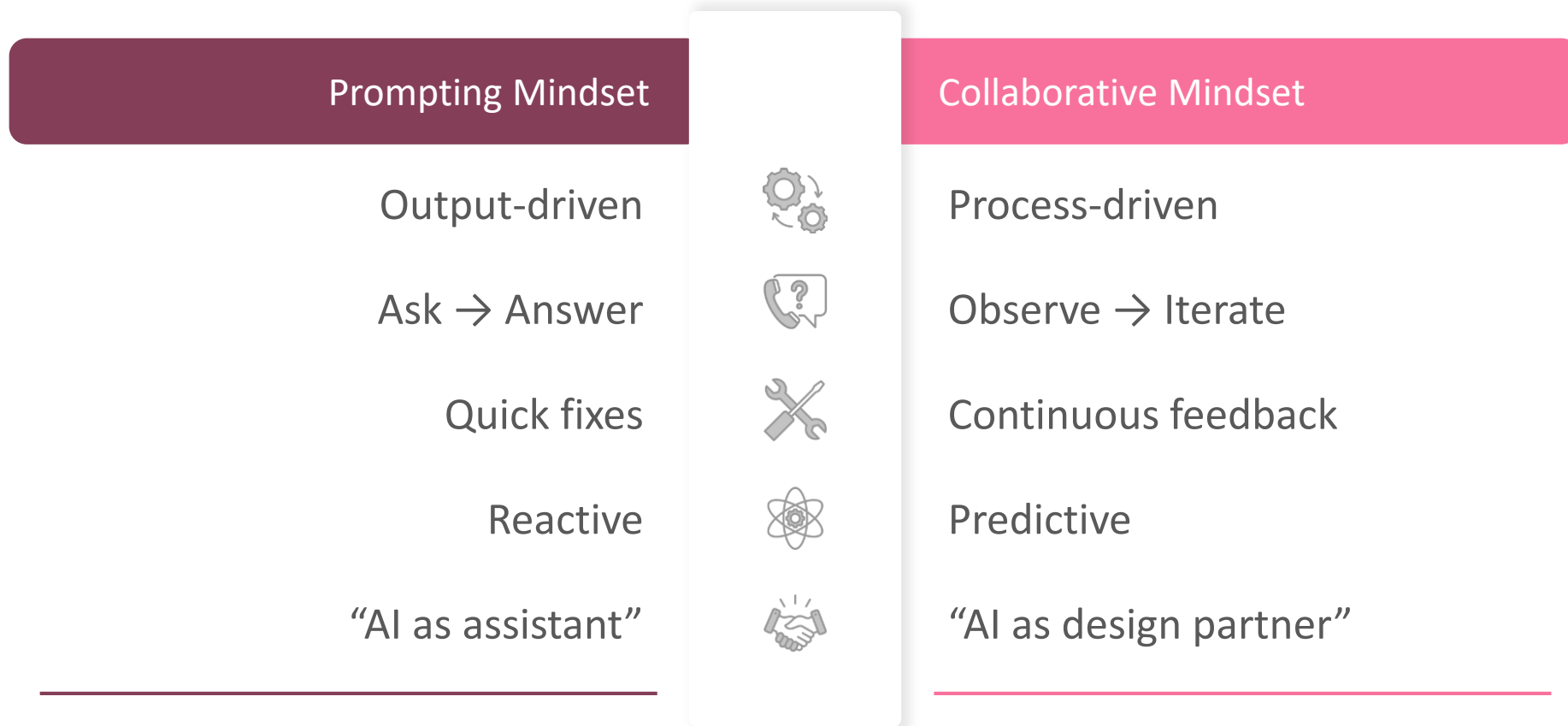
Quote

AI doesn't replace creativity — it accelerates curiosity.

- J Erasmus



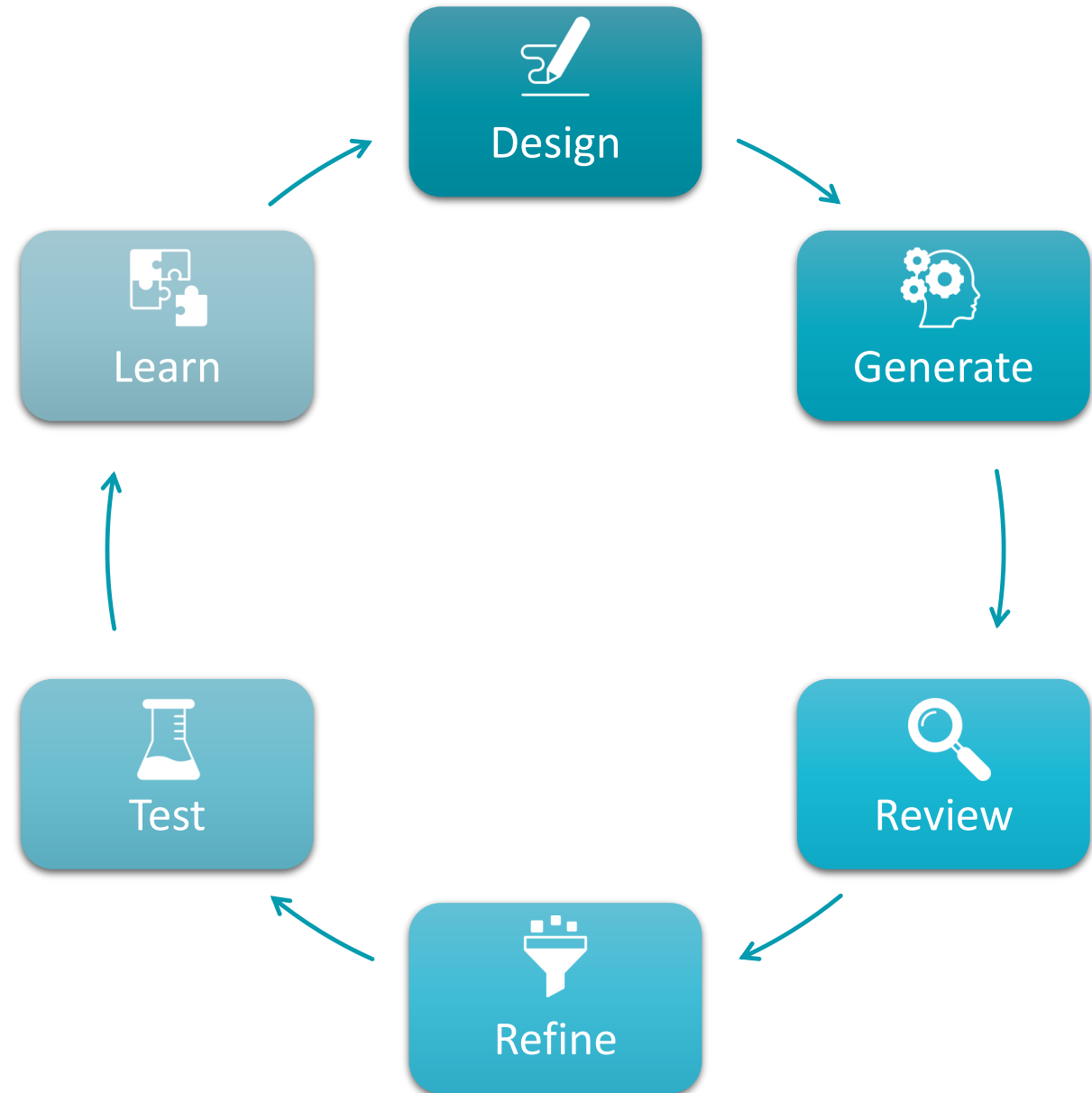
Moving a Transaction to Collaboration



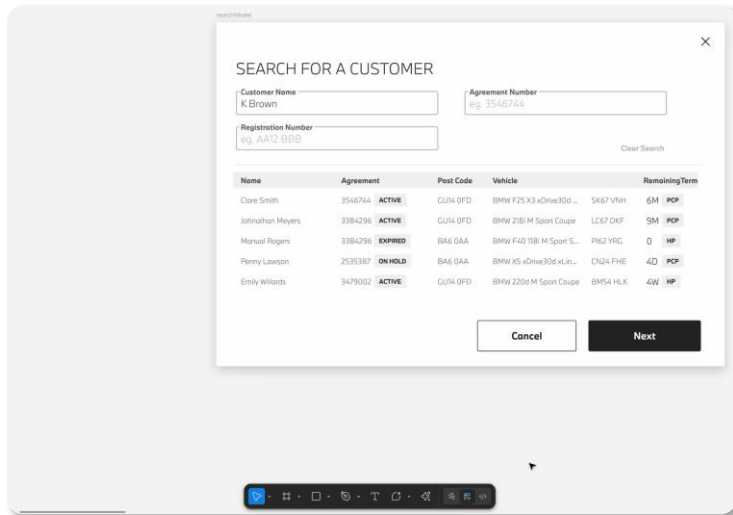
The feedback loop

AI's New Role

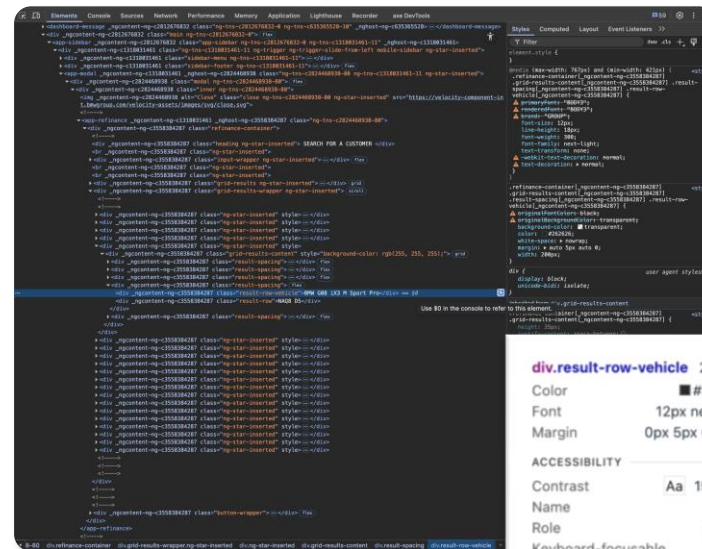
- Design validator
- Creative critic
- Learning accelerator
- Process mirror



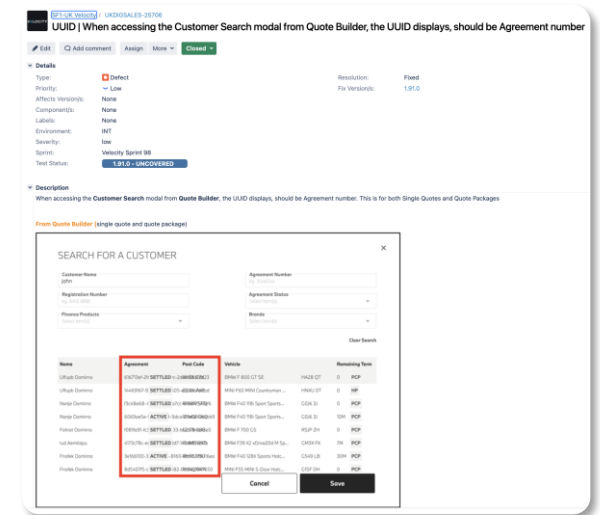
Glimpse of *THE PROCESS*



Figma



FE Development



Testing



User Testing Simulation

- Simulate cognitive responses
- Predict task completion hurdles
- Evaluate emotional tone in content
- Identify drop-off points early



Accessibility Validation

- WCAG contrast failures
- Missing alt-text or labels
- Poor tap targets_(Fitts's Law)
- Layout consistency_(von Restorff Effect)



Embedded Learning

- Tutor during work
- Reflection mirror
- On-demand knowledge base

All talk... but can you do it?

I'm a UX/UI designer. I want to create a custom AI agent to use as a demo at a conference to illustrate "using AI beyond prompting as part of your design process" (topic). It is the first time I'll be creating an AI agent, and feel overwhelmed. Give me thorough basic steps on what I need to do to get started on building this AI agent. Include options and details with each step for creating/writing this custom AI agent.

Thought for 39s

Awesome—let's make this feel doable. Below is a practical, end-to-end starter kit you can follow to build (and demo) a custom AI agent that shows "AI beyond prompting."

1) Pick a *tiny, high-leverage* demo use-case (choose one)

You want something that proves tool-use, structure, and repeatability—not just chat.

Option A — "Design QA Agent" (fastest to wow)

- **What it does:** Audits a design spec or screenshots for WCAG basics (contrast, font sizes), creates an issue list, and generates JIRA-ready tickets.
- **Inputs:** Image(s)/Figma link + checklist.
- **Actions:** Contrast check, color extraction, create JSON tickets.
- **Why it's great on stage:** Clear before/after output and tangible next steps.

Option B — "Research Synth Agent"

- **What it does:** Takes raw interview notes, clusters insights, surfaces themes, and outputs personas + "How Might We"s and a roadmap draft

+ Ask anything



Initial

Design QA Agent

Upload a mockup image, then generate a WCAG contrast report.

Choose file: refinance_us...Table_v1.png Font size (pt): 12 Run QA

Report

Analyzed 5 dominant colors and 20 color pairs. (file: refinance_userTable_v1.png)

Pass rate: 40% Export CSV

id	component	rule	severity	evidence	fix	refs
fc886e02	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.12 (AA threshold 4.5). Pair #f2f2f2. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
56431742	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.92 (AA threshold 4.5). Pair #ffffff on #bbbbbb. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
d9e57420	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.13 (AA threshold 4.5). Pair #ffffff on #f1f1f1. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
986d389e	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.12 (AA threshold 4.5). Pair #f2f2f2 on #ffffff. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
93adb85c	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.71 (AA threshold 4.5). Pair #f2f2f2 on #bbbbbb. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
65259179	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.01 (AA threshold 4.5). Pair #f2f2f2 on #f1f1f1. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
244be647	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.92 (AA threshold 4.5). Pair #bbbbbb on #ffffff. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
e9943eb5	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.71 (AA threshold 4.5). Pair #bbbbbb on #f2f2f2. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
2a165125	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.7 (AA threshold 4.5). Pair #bbbbbb on #f1f1f1. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
c94fc77d	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.13 (AA threshold 4.5). Pair #f1f1f1 on #f2f2f2. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
1271deae	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.01 (AA threshold 4.5). Pair #f1f1f1 on #f2f2f2. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
35279e16	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	Contrast ratio 1.7 (AA threshold 4.5). Pair #f1f1f1 on #bbbbbb. Large text: False	Increase contrast (e.g., darken background or lighten text) until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)

...iteration 32

Design QA Agent

Upload a mockup image, then generate a WCAG2.1 contrast report.

Font size (pt): 14 Bold Drag & drop an image, or click to browse Run QA

Report

Analyzed 5 dominant colors and 20 color pairs. (file: onlinePayment.png)

Pass rate: 40% High: 20 Medium: 0 Low: 0 Filter by component or rule All severities Download CSV Download Overlay

id	Component	Rule	Severity	Evidence	Fix	Refs
1cb34896	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	1.26:1 (Fail)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
9c8574f2	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	1.09:1 (Fail)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
d2674b5e	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	4.01:1 (Pass)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
32a3a778	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	1.01:1 (Fail)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
efd328a4	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	1.26:1 (Fail)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)
f3a8b14c	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	1.16:1 (Fail)	Increase contrast until ratio >= 4.5.	wcag_color_contrast.md (score=3); qa_checklist.md (score=3); typography_basics.md (score=2)

design-qa-agent

EXPLORER

- DESIGN-QA-AGENT
 - .venv
 - exports
 - images
 - public
 - index_uploadModal...
 - index.html 1
 - samples
 - src
 - __pycache__
 - agent
 - __pycache__
 - policy.py
 - runner.py
 - data
 - tools
 - __pycache__
 - colors.py
 - contrast.py
 - export.py
 - ocr.py 3
 - overlay.py 5
 - rag.py
 - app.py 3
 - schemas.py
 - .env.example
 - README.md
 - requirements.txt

index.html 1 X ocr.py 3 overlay.py 5 app.py 3

```
public > index.html > html > head > style > .drop_hint
1 <!doctype html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="viewport" content="width=device-width, initial-scale=1" />
6   <title>Design QA Agent</title>
7   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.0/css/all.min.css" rel="stylesheet" />
8   <style>
9     :root{
10      --bg: #F6F6F6;
11      --card: #fff;
12      --border: #E6E6E6;
13      --text: #262626;
14      --muted: #888888;
15      --pill: #F2F2F2;
16
17      --primary: #1C69D4;
18      --primary-600: #0653B6;
19      --ok: #3DB014;
20      --warn: #FFA01F;
21      --bad: #D20000;
22      --chip-pass: #E8F2E8;
23      --chip-pass-b: #18783A;
24      --chip-fail: #F7E7E9;
25      --chip-fail-b: #AF1523;
26    }
27
28    *{box-sizing: border-box}
29    body{font-family: ui-sans-serif, system-ui, Segoe UI, Roboto, Helvetica, Arial; margin: 0; background: var(--bg); color: var(--text)}
30
31    .wrap{max-width: 1200px; margin: 0 auto; padding: 24px}
32    .hero{display: flex; align-items: center; margin-bottom: 12px}
33    .hero img{width: 120px; height: 120px; border-radius: 12px; object-fit: cover}
34    h1{flex: 1; text-align: center; margin: 0; font-size: 32pt; font-weight: 800; letter-spacing: .3px}
35    .seg{display: flex; justify-content: center; gap: 0; margin: 12px 0 24px}
36    .seg button{color: var(--muted); background: #F2F2F2; border: 1px solid var(--border); padding: 12px 20px; cursor: pointer}
37    .seg button:first-child{border-radius: 12px 0 0 12px}
38    .seg button:last-child{border-radius: 0 12px 12px 0}
39    .seg button:active{color: var(--text); font-weight: 600; border-color: #E6E6E6}
40  </style>

```

PROBLEMS 12 OUTPUT DEBUG CONSOLE TERMINAL PORTS

- app.py src 3
 - Import "fastapi" could not be resolved Pylance(reportMissingImports) [Ln 3, Col 6]
 - Import "fastapi.responses" could not be resolved Pylance(reportMissingImports) [Ln 4, Col 6]
 - Import "fastapi.staticfiles" could not be resolved Pylance(reportMissingImports) [Ln 5, Col 6]
- ocr.py src/tools 3
- overlay.py src/tools 5
 - Import "PIL" could not be resolved from source Pylance(reportMissingModuleSource) [Ln 5, Col 6]
 - Import "PIL.Image" could not be resolved from source Pylance(reportMissingModuleSource) [Ln 5, Col 17]
 - Import "PIL.ImageDraw" could not be resolved from source Pylance(reportMissingModuleSource) [Ln 5, Col 24]
 - Import "PIL.ImageFont" could not be resolved from source Pylance(reportMissingModuleSource) [Ln 5, Col 26]

Ln 54, Col 28 Spaces: 2 UTF-8 LF HTML Prettier

MacBook Pro

Account → Payment methods

Contact info Link Authentication Element

Email

Shipping Shipping Address Element

Name

Country or region
United States

Address line 1
510 Townsend St.

Payment Payment Element

Card Google Pay Bank

Card number
1234 1234 1234 1234

Expiry CVC
MM / YY CVC

Billing is same as shipping information


By providing your card information, you allow Stripe Shop to charge your card for future payments in accordance with their terms.

Save

Design QA Agent

Contrast Report
Colour Blind
Sentiment Level




WCAG Version: 2.1 | Font Size (pt): 14 | BOLD
Large Text — AA ≥ 3:1 · AAA ≥ 4.5:1


onlinePayment.png
 228 KB

[Run QA Test](#)

Report
Analyzed 5 dominant colors and 20 color pairs. (file: onlinePayment.png)

Pass rate: 40% | High: 12 | Medium: 8 | Low: 0 |
 All severities | All pairs |
 [Download CSV](#) | [Download Overlay](#)

id	Component	Rule	Severity	Evidence	Fix	Refs
1cb34096	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	 1.26:1 Fail	Increase contrast until ratio >= 4.5.	<ul style="list-style-type: none"> wcag_color_contrast.md (score=3) qa_checklist.md (score=3) typography_basics.md (score=2)
9c0574f2	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	high	 1.09:1 Fail	Increase contrast until ratio >= 4.5.	<ul style="list-style-type: none"> wcag_color_contrast.md (score=3) qa_checklist.md (score=3) typography_basics.md (score=2)
d2074b5e	global/text_vs_background	WCAG 1.4.3 Contrast (Minimum)	medium	 4.01:1 Pass	Increase contrast until ratio >= 4.5.	<ul style="list-style-type: none"> wcag_color_contrast.md (score=2)






What? ←

Why? ←

→ Where?

→ How?

A Shared Opportunity

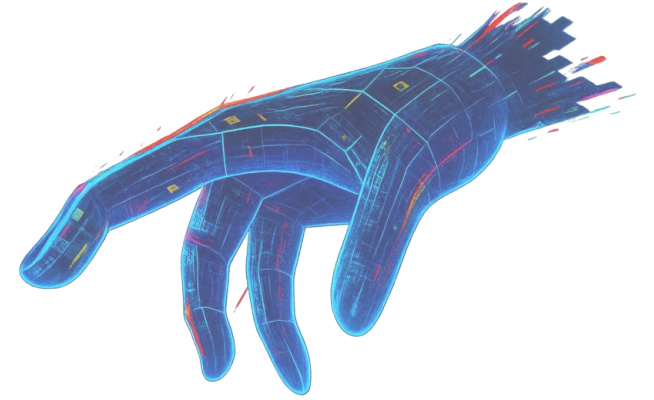
Role	Example AI Application
 Designer	Visual feedback, UX tone, content generation
 Developer	Copilot pair programming, code review
 Project Manager	Sprint scope prediction, ticket summarisation
 Business Analyst	Requirement clustering, flow mapping
 Tester / QA	Automated regression report summarisation

AI isn't taking jobs — it's taking tasks.

Train it well.

- ✓ Protect personal data & respect privacy
- ✓ Always validate data sources
- ✓ Check for cultural & gender bias
- ✓ Maintain human oversight
- ✓ Keep pace of governance & policies
- ✓ Ensure explainability of outputs





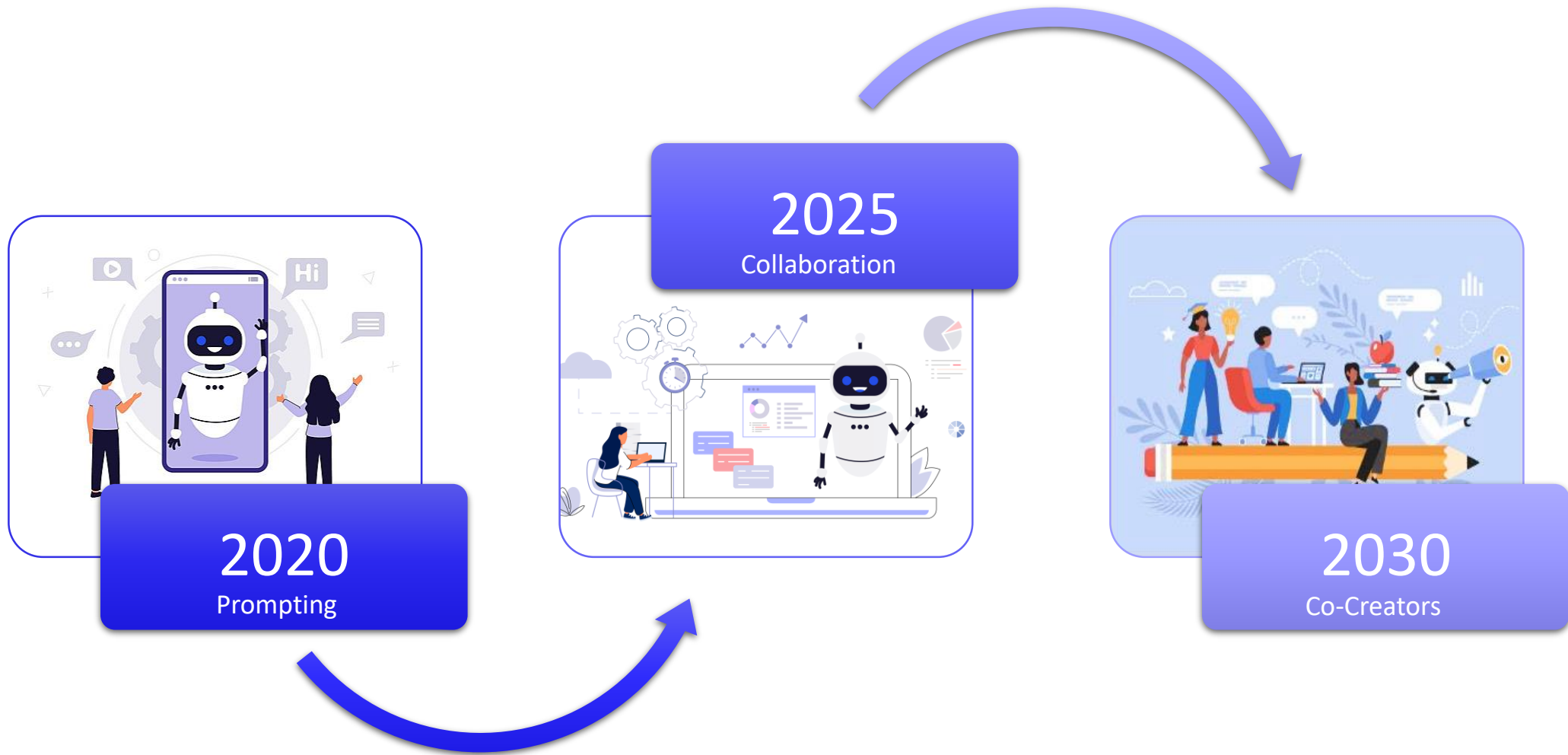
Quote

Designers who learn with AI won't be replaced by AI — they'll be leading it.

- Adapted from Thomas Friedman



Future Collaboration



Key Takeaways

- Don't stop at the prompt
- Embed AI into your feedback loops
- Use AI to teach you as much as it helps you
- Build your own micro-tools for workflow automation



Now it's your turn...