Getting Started with Vibe Coding



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Have you tried to put a number on your productivity increase with GenAI?



1000 Hours in 1 Day



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A project that would have taken **7** years (**15K** hours) and **$1M** done in **2** **weeks** with < **$10K** in AI tokens





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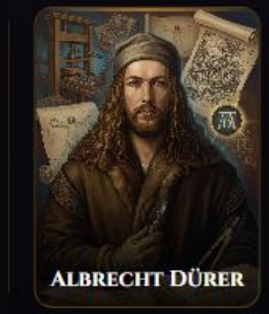
Muse Battle

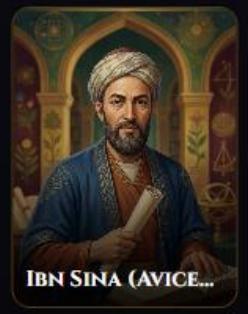
Where Legends of History Compete in Art

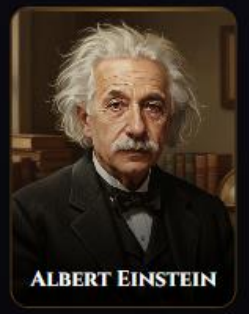
Watch legendary artists, philosophers, and visionaries battle through AI-generated art. Every outcome is **unpredictable**, every creation **unique**.

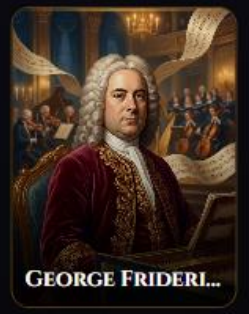
Start Playing Free | Explore Gallery

Content Warning: AI-generated content in this game is unpredictable and may sometimes include depictions of nudity, violence, or other inappropriate content. This game is **NOT recommended for children** without adult supervision.



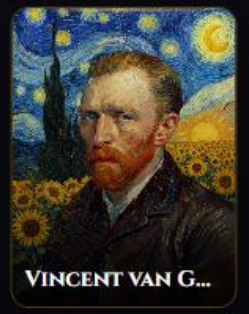
















What happens when Edmonia Lewis battles Scheherazade to impress Merlin with art?

With **410** muses available, **68,417,520** unique battle combinations await!

Do you spend hours

analyzing documents with a rubric?

Save Hours of Time

with LLM-Powered Document Processing

Build reusable checklists that analyze any document. Get complete transparency with detailed reasoning for every decision. Add verification agents to double-check results automatically.

REUSABLE · TRANSPARENT · VERIFIED

→ Get Started



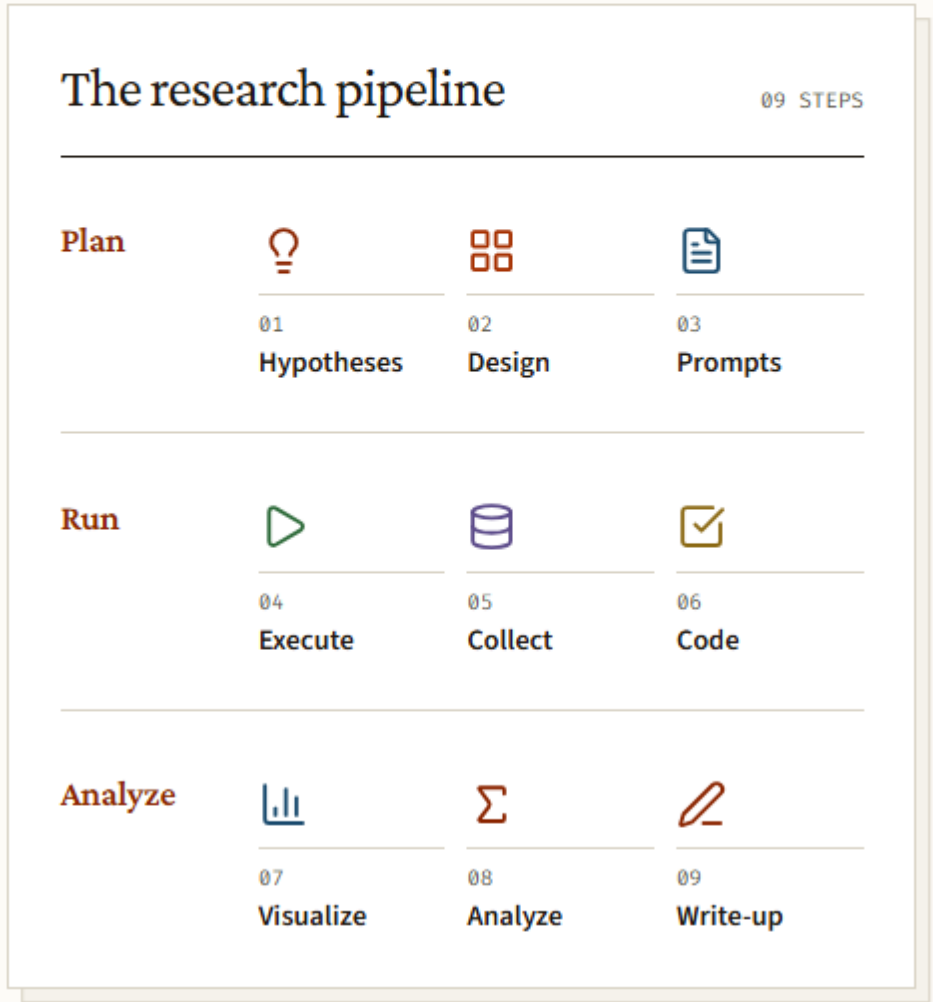
LLM-as-a-subject research, made easier

The easier way to study LLM behavior.

LLMs shape how people learn, work and decide. Understanding their behavior takes more than a few prompts. AIScholar gives you everything you need to design controlled studies, collect repeated responses, code and analyze results, and report what you find in one easy-to-use workspace.

Start a study →

See an example study





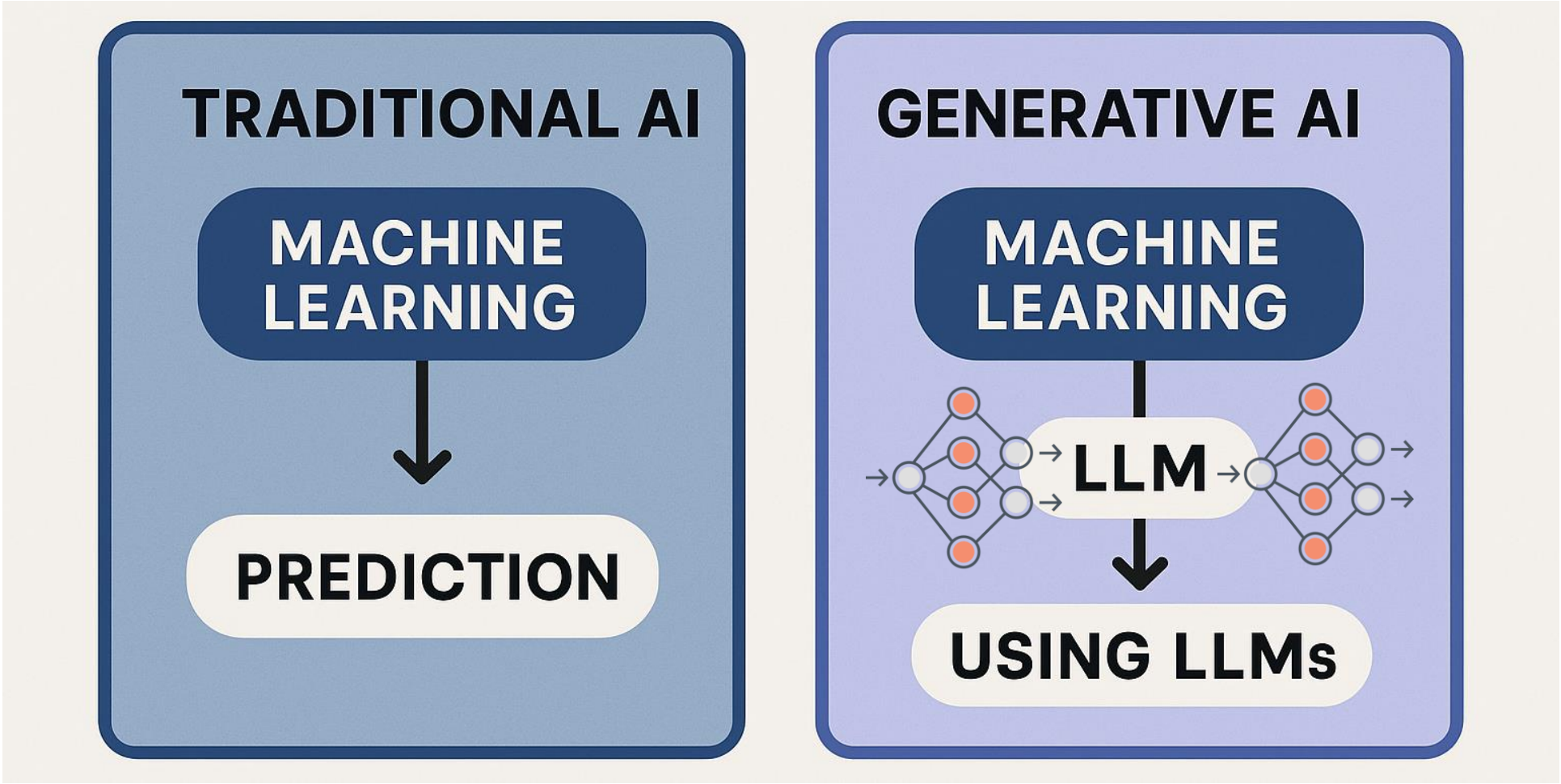
3D Visualization of a Simple Neural Network by Marijn van Vliet





Two Different Worlds: Traditional AI vs Generative AI

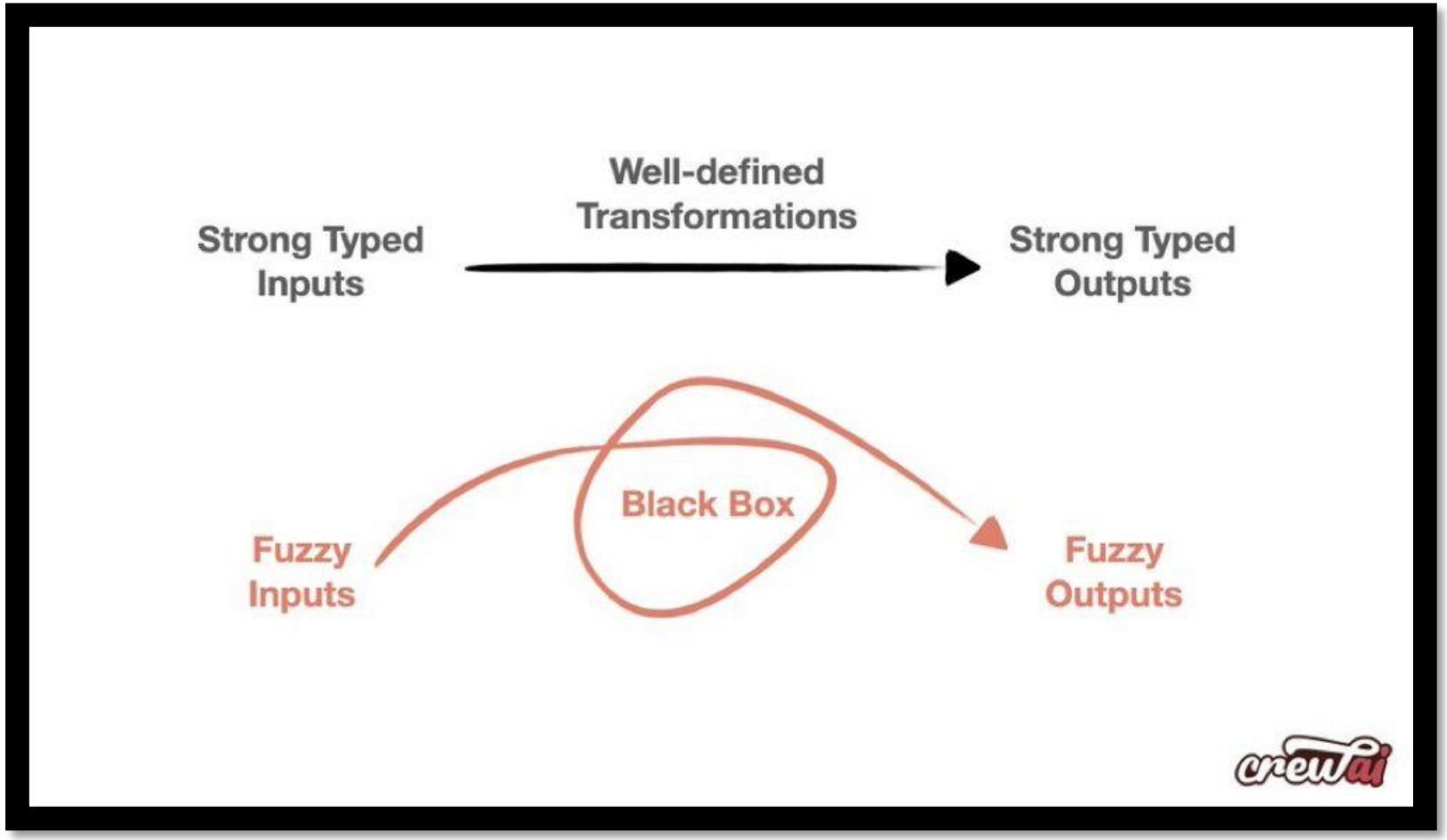
Don't confuse what we meant by "AI" before the emergence of Large Language Models



The rise of Judgment-Powered Software

a.k.a. AI Agents




Well-defined
Transformations
Strong Typed
Inputs
Strong Typed
Outputs
Black Box
Fuzzy
Inputs
Fuzzy
Outputs
crewai



Application Programming Interface (API)

APIs are how computer programs talk to each other.

An API is like a waiter in a restaurant:

- **You** (the customer) make an order (a request).
- **The waiter** (API) delivers your request to the kitchen (a system or service).
- **The kitchen** prepares the meal (processes the request).
- **The waiter** brings back your dish (the response).

Examples in everyday life:

- Booking a flight online (API connects airline databases to travel sites).
- Checking the weather app (API links your app to weather data providers).
- Logging in with Google or Facebook (API securely connects different apps together).



judge.py

```
22              # File is being written to, wait a bit and
                retry
23              time.sleep(0.1)
24
25
26  def play_audio(text):
```

judge.py analyze_image

```
42          {
43              "role": "user",
44              "content": [
45                  {"type": "text", "text": "Describe this image"},
46                  {
47                      "type": "image_url",
48                      "image_url": f"{base64_image}"
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh

```
(venv) → narrator git:(main) ✗
```

```
(venv) → narrator git:(main) ✗
```



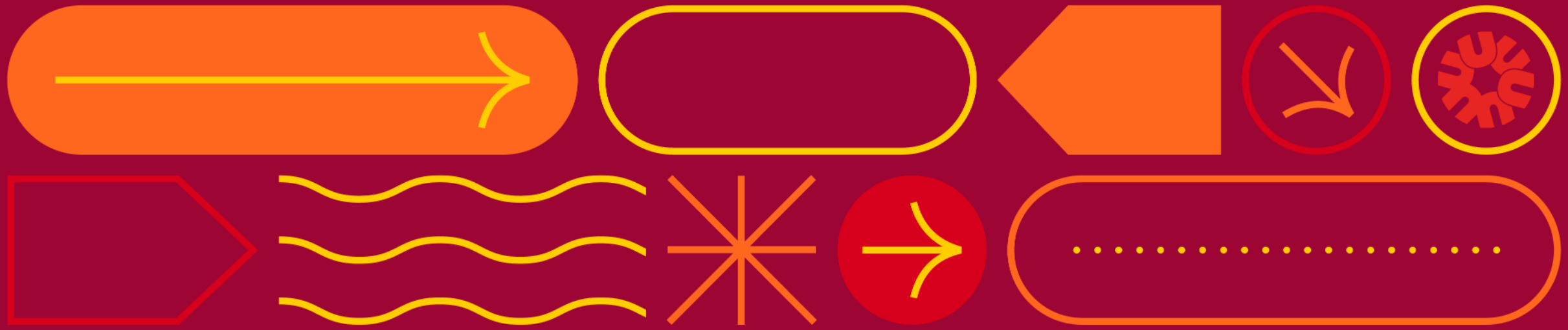


undefined to generate a command

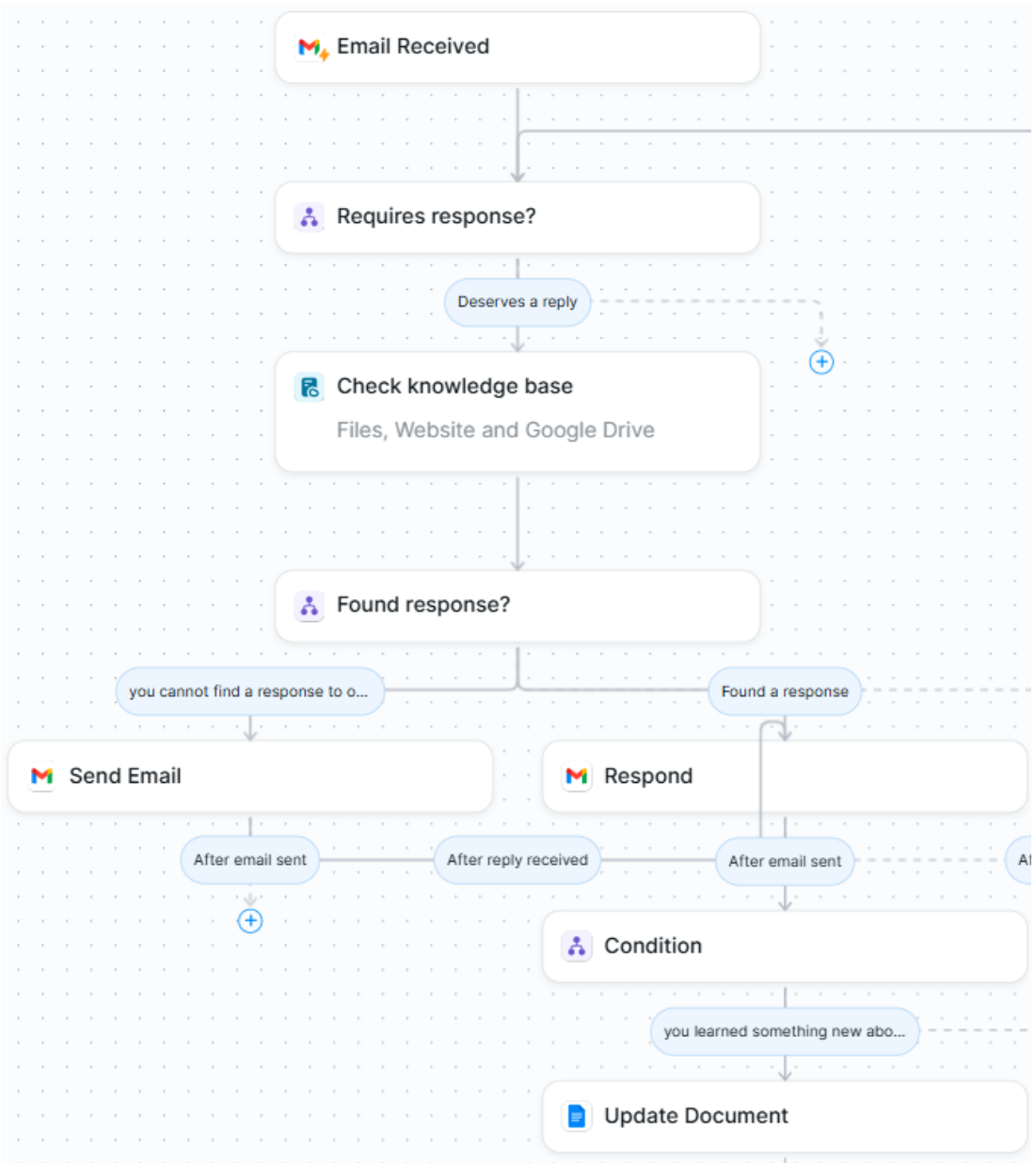
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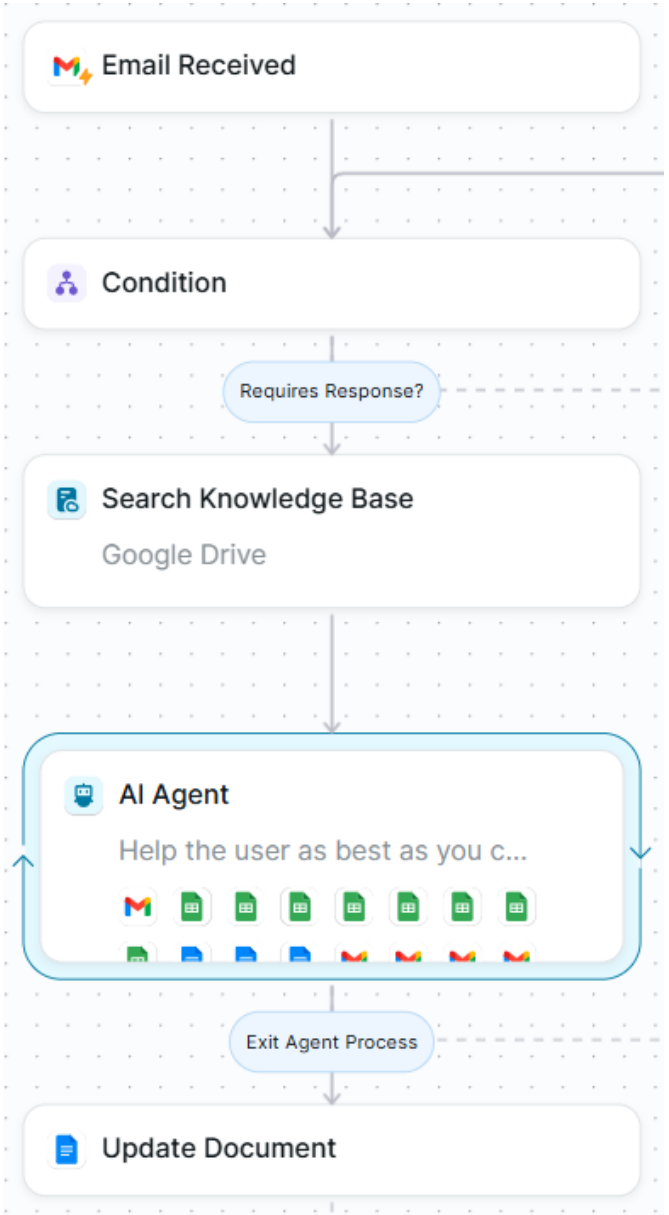
Exercise: Explore Public APIs

https://free-apis.github.io/

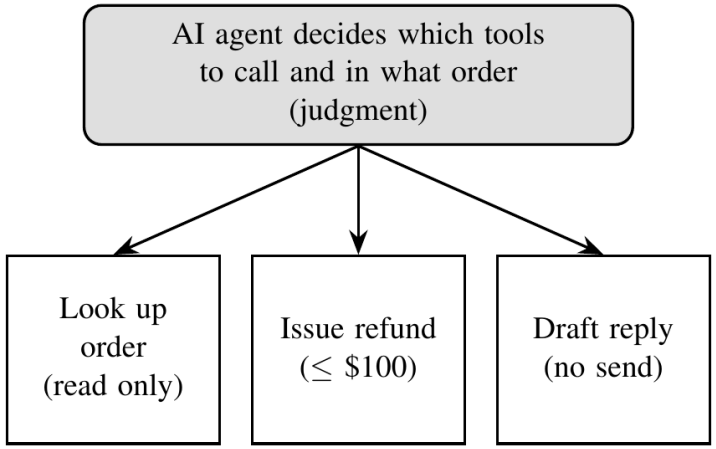


Non-Agentic Lindy vs. Agentic Lindy



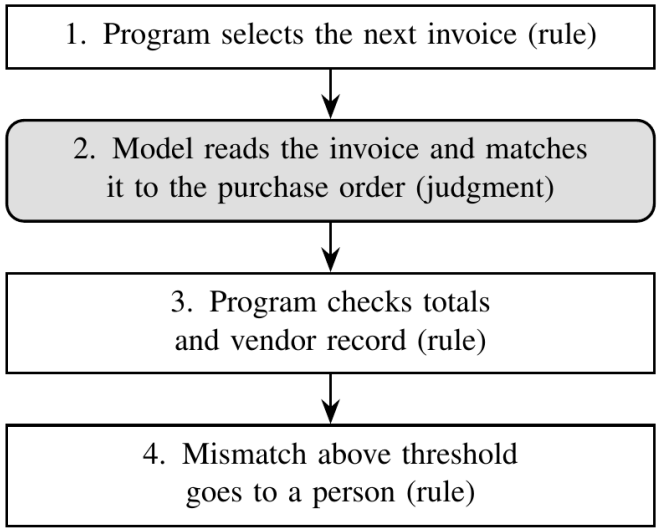


A. Tools: judgment on top



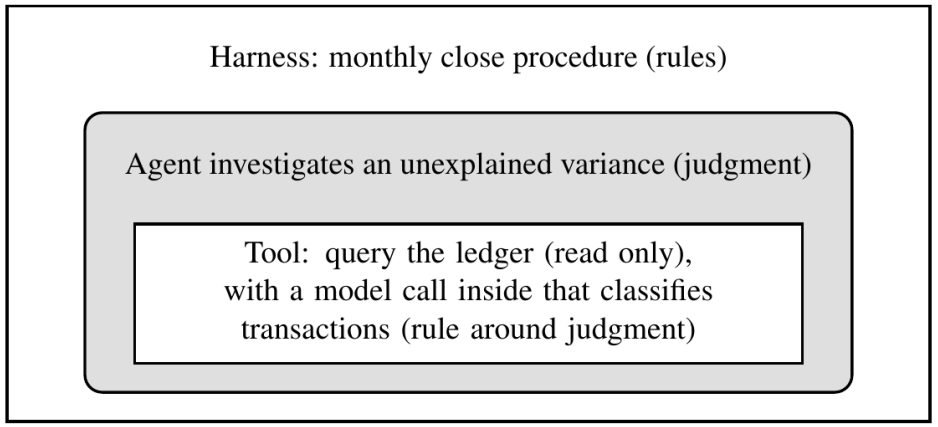
Each tool is conventional code that validates inputs and enforces limits (rules)

B. Harness: rules on top



The program owns the process; the model is called only at defined steps, and its output is checked

C. Nesting



Leading AI-Assisted Programming Tools

- → Replit AI Agent
- → Cursor.com
- → Lovable.dev
- → Antigravity.Google
- → Bolt.New
- → Rork.App
- → Mgx.Dev
- → Vly.ai
- → Chef by Convex
- → Windsurf by Codeium
- → AugmentCode
- → Devin by Cognition
- → Continue.Dev
- → Aider.Chat
- → Softgen.ai
- → GitHub CoPilot
- → Rosebud.ai (games)
- → And many more…



Claude

Untitled

MK I want to make a mobile app with react and css that is just an ASMR sensory experience where touching the screen produces beautiful patterns or shapes that move around in mesmerizing patterns. The more you press, the more shapes sprout from under your finger. All graphics should be css with no image assets needed. When testing the app on desktop computers, mouse clicks should have the same effect as mobile touch actions.

I'll help you create a mesmerizing ASMR-like visual experience using React and CSS animations. Since this is a complete interactive component with complex animations, it's a good candidate for an artifact.

Reply to Claude...

Claude 3.5 Sonnet

https://support.anthropic.com/en/articles/8525154-claude-is-providing-incorrect-or-misleading-responses-what-s-going-on

Plan before Code

→ Use regular AI tools to research everything about your idea, find potential competitors, see if it is worth building.

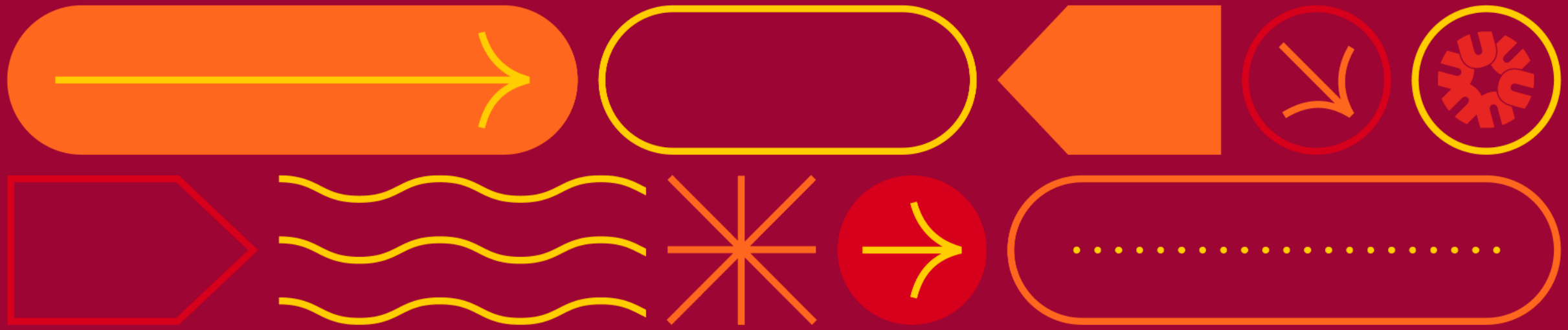


Powerful Planning Prompt

→ "I have the following rough idea for an app I want to build with Replit AI agent. Please review and critique the idea and help me work through it until you have enough information to write a complete Product Requirements Document as a markdown file. Here's the idea I have so far: _____"



Exercise:



Powerful Brand Kit Prompts

→ I want to build a web application that [DESCRIBE FUNCTIONALITY]. The main audience for this is [DESCRIBE AUDIENCE]. Can you help me come up with three different suggestions for a color palette and visual styling guide for the brand kit? Ask me any details you need to know before making your final suggestions.

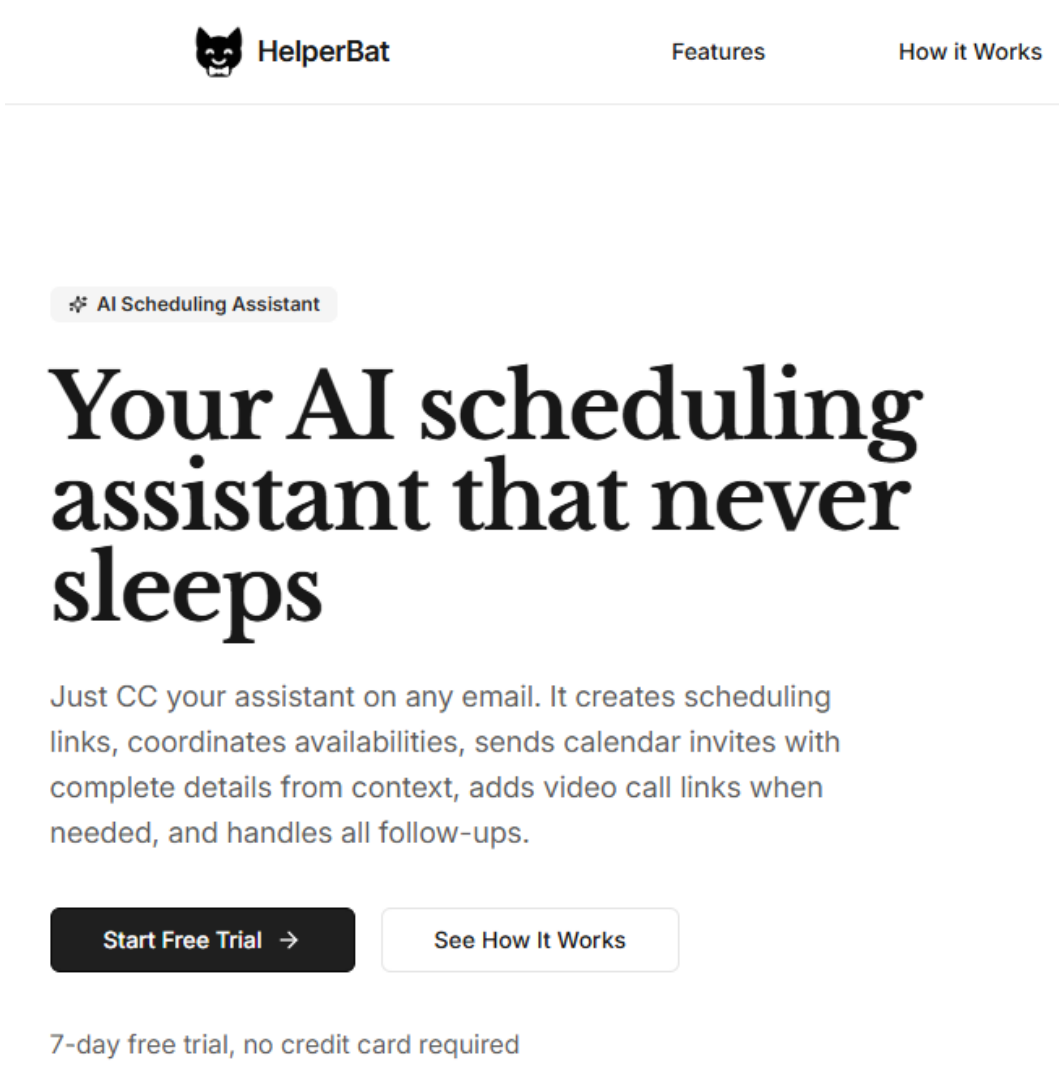
→ Based on the options for color palette and visual styling guide provided above, create a comprehensive brand kit as an interactive react component such that I can choose between the three options and see everything change on the screen. The brand kit should have many details and examples so I can see how it would look in practice with buttons and cards and html pages.

→ I really like the [CHOSEN OPTION FOR COLOR PALETTE AND VISUAL GUIDE]. Can you create a detailed markdown document that describes the full brand kit based on this?



Powerful Spec-Driven Development Prompt

→ "please refer back to the PRD and compare it with the current state of the codebase, then plan the next development sprint."



Powerful Testing Prompt

→ Don’t turn on Automatic Testing on Replit. Instead, use this:

→ "Can you develop a comprehensive testing framework with various use cases and edge cases to test the _____ features of the app? Design and run a comprehensive test suite as a script and record logs to understand behavior and identify any bugs. Create test endpoints if you need to. If you find any bugs work autonomously to improve them. If you run into authentication or login issues or lack of users find workarounds like synthetic data, mock users, or direct database entries. "

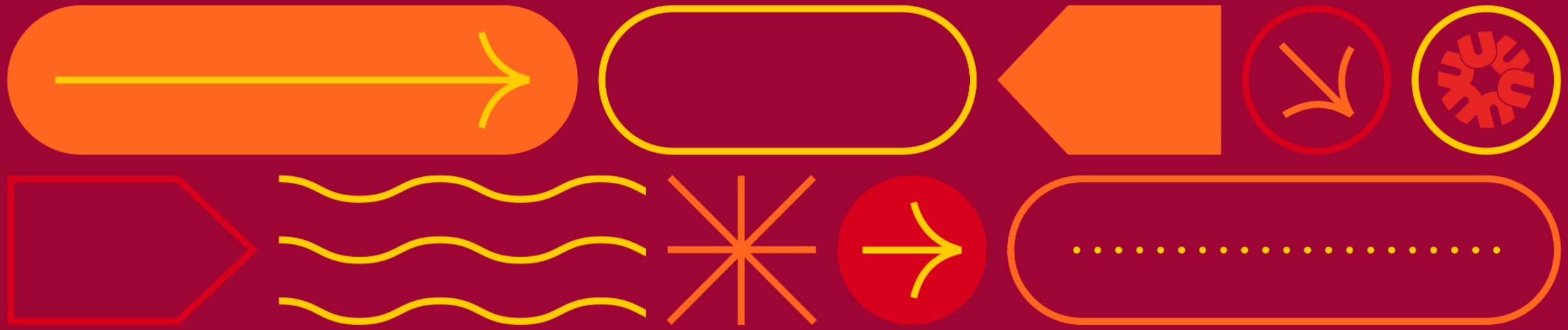


Powerful Accessibility Prompt

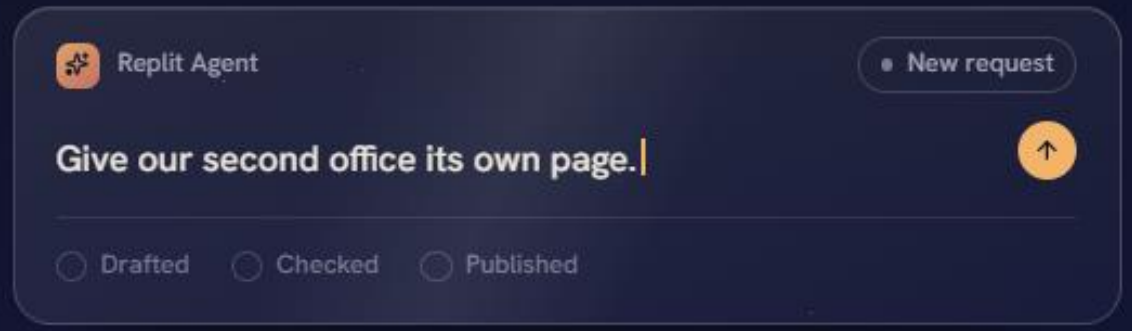
→ "Let's focus on _____. Please redesign this page to be as compliant as possible with accessibility standards such as Web Content Accessibility Guidelines (WCAG) 2.1 (**https://lnkd.in/gDKqZ8w3**), the US government ADA Standards for Accessible Design (**https://lnkd.in/g6UiHhFK**) and the Accessibility for Ontarians with Disabilities Act (**https://www.aoda.ca/**). Do this while maintaining as much of the on-brand style as you can."



Replit Walkthrough



AIDrivenSites.com





MohammadKeyhani.com/feedback/

