SENTIENT DESIGN

CRAFTING INTELLIGENT INTERFACES WITH AI

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VERONIKA KINDRED
bigmedium.com







WE CAN MAKE
EXPERIENCES THAT
WEREN’T POSSIBLE BEFORE

WHAT HAPPENS WHEN YOU WEAVE INTELLIGENCE INTO DIGITAL INTERFACES?

WHOA.

🎬 Describe a scene and watch it come to life...



What's your scene?

Go

🐟 The submarine descends

👯 A graceful, twirling ballet

👻 Scooby Doo in the haunted house

🚀 Rocket to Mars

🍭 Willy Wonka's factory bursts apart

🏴‍☠️ A pirate

This is a cute demo of Sentient Design and radically adaptive interfaces. Learn more about the project.

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SENTIENT SCENES

bigmedium.com/projects/sentient-scenes.html

INTELLIGENT INTERFACES BEYOND CHAT

PERSONALITY WITHOUT ANTHROPOMORPHISM

AWARENESS OF CONTEXT & INTENT

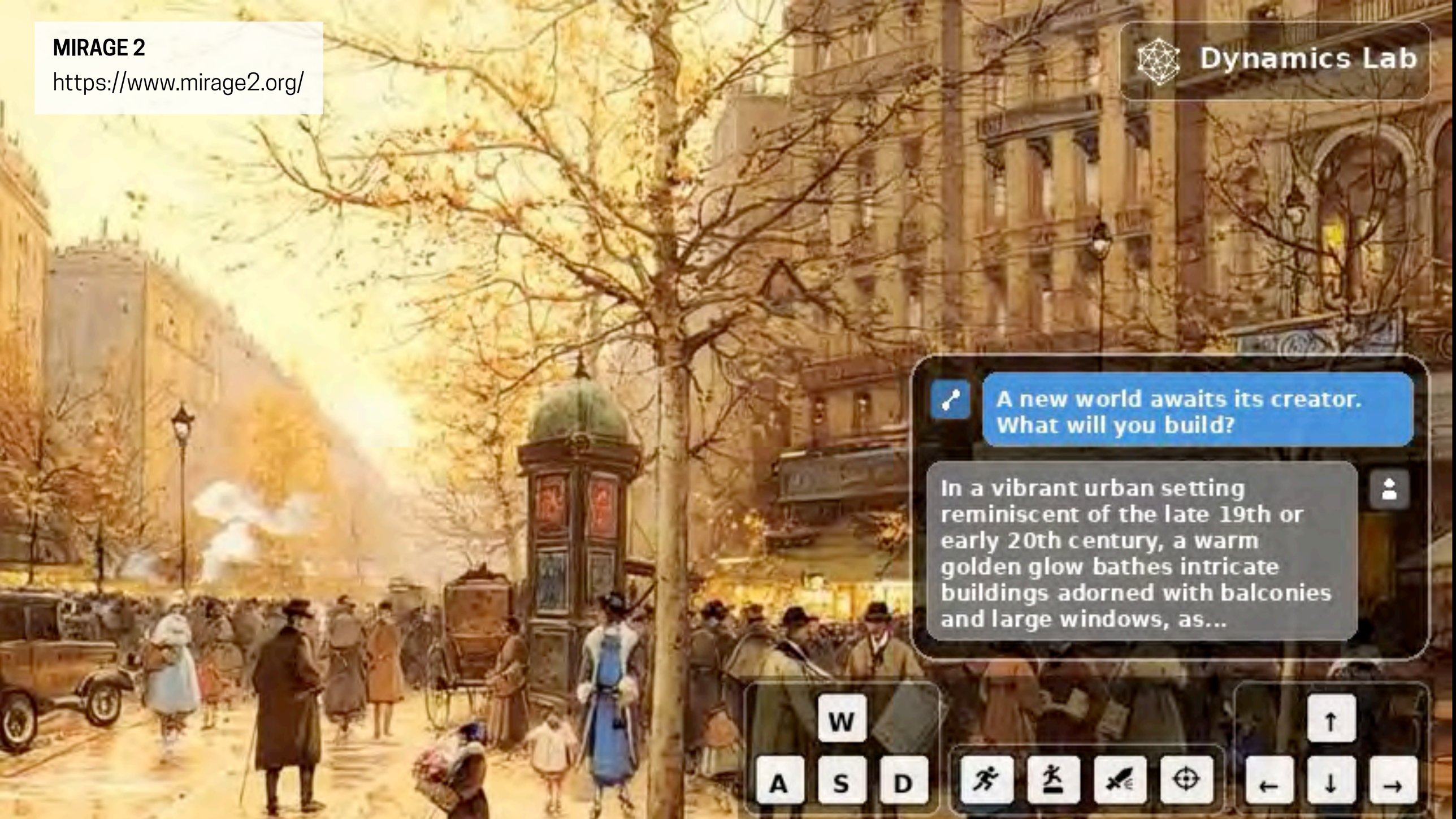
OPEN-ENDED WITHIN CONSTRAINTS



LES GRANDS BOULEVARDS, PORTE SAINT-MARTIN
Eugène Galien-Laloue, circa 1900

MIRAGE 2

https://www.mirage2.org/



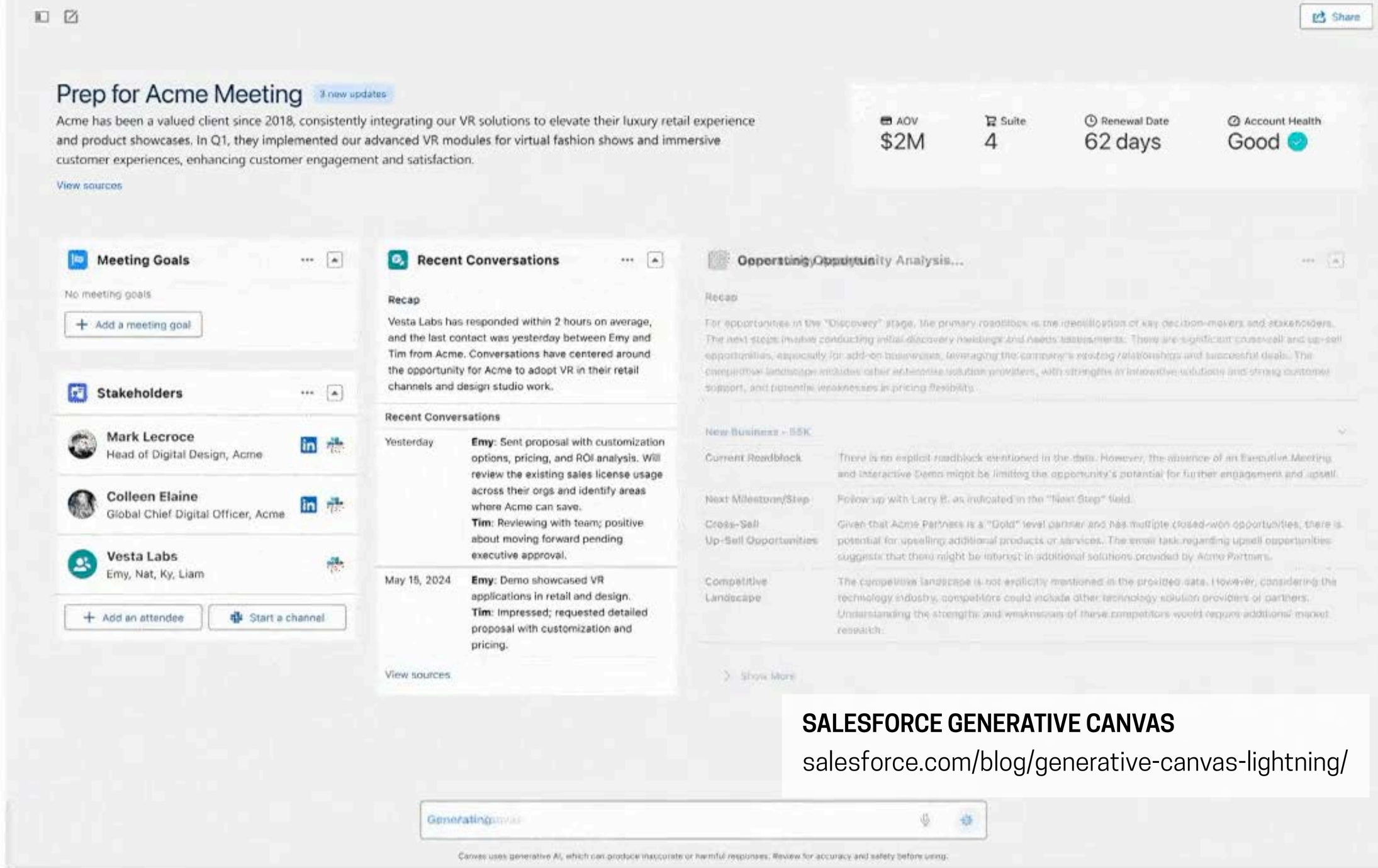
THE WORLD IS CREATED AS YOU EXPLORE IT



WHAT IF ANY DIGITAL EXPERIENCE COULD WORK THIS WAY?

STRANGE & POWERFUL MATERIAL

1. FLUENT IN USER INTENT
2. EXPERT AT MANNER
3. SHAKY ON FACTS
4. PLAYS WELL WITH OTHERS



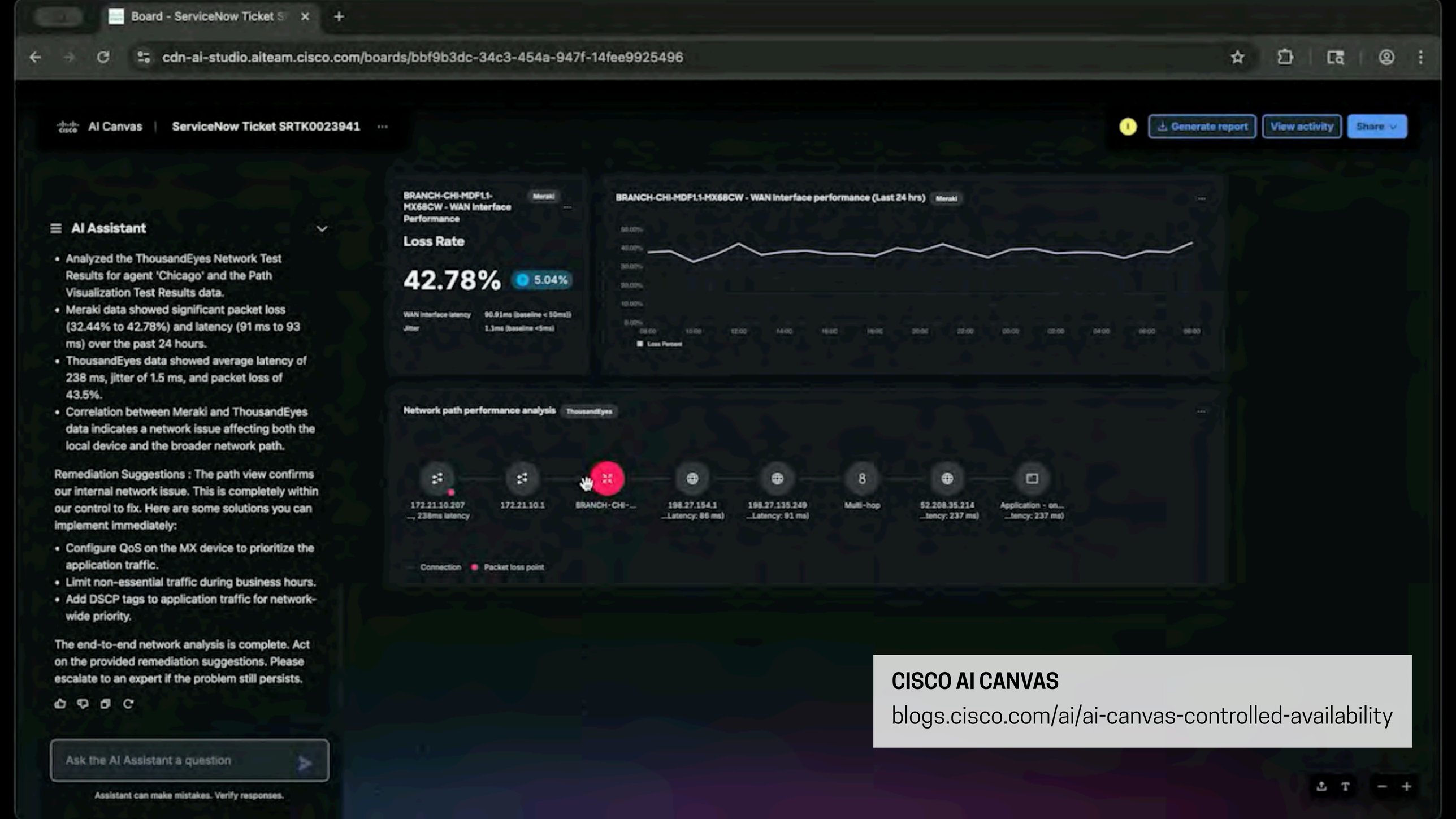
SALESFORCE GENERATIVE CANVAS

salesforce.com/blog/generative-canvas-lightning/

STRANGE & POWERFUL MATERIAL

1. FLUENT IN USER INTENT
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THIS IS THE BESPOKE UI DESIGN PATTERN



CISCO AI CANVAS

blogs.cisco.com/ai/ai-canvas-controlled-availability


Board - ServiceNow Ticket
cdn-ai-studio.aiteam.cisco.com/boards/bbf9b3dc-34c3-454a-947f-14fee9925496
AI Canvas | ServiceNow Ticket SRTK0023941
Generate report
View activity
Share
AI Assistant
Can you compare the application server response duration and availability metrics with the loss metrics and see if there is a correlation?
AI Assistant
D-CHI-MX68CW - Network Loss Statistics Vs Application Performance
Splunk
Request Duration
Ask the AI Assistant a question
Assistant can make mistakes. Verify responses.
BRANCH-CHI-MDF1.1-MX68CW - WAN Interface Performance
Meraki
Loss Rate
42.78%
5.04%
WAN interface latency
90.91ms (baseline < 50ms)
Jitter
1.1ms (baseline <5ms)
BRANCH-CHI-MDF1.1-MX68CW - WAN Interface performance (Last 24 hrs)
Meraki
Loss Percent
Network path performance analysis
ThousandEyes
172.21.10.207
172.21.10.1
BRANCH-CHI-...
198.27.154.1
198.27.135.249
Multi-hop
52.208.35.214
Application - on...
Connection
Packet loss point
Request Duration - 6.75
Http Request Availability - 69.7
Loss Percent - 35.39
Vs Application Performance
Splunk
Request Duration
Http Request Availability
Loss Percent

THE INTELLIGENT CANVAS PATTERN MAKES THE UI EXPLICITLY COLLABORATIVE

THE INTERFACE COMES TO YOU

any additional features?

JC Add zombies

Certainly! Adding zombies to our Asteroids game will create an interesting twist. We'll modify the game to include zombies that chase the player's ship. This will add a new layer of challenge and excitement to the game. Let's update our existing code to incorporate this new element.

Asteroids Game with Zombies
Click to open website

I've updated the Asteroids game to include zombies. Here are the main changes and additions:

1. Added zombies:
   - Created a `zombies` array to store zombie objects
   - Implemented `drawZombies` and `updateZombies` functions
   - Zombies are represented as green circles that chase the player's ship
2. Updated collision detection:
   - Added bullet-zombie collision checks
   - Added ship-zombie collision checks
3. Scoring system update:
   - Destroying a zombie now awards 200 points (asteroids still award 100 points)
4. New zombie creation:
   - Added a `createZombie` function
   - When a zombie is destroyed, a new one is created to maintain a constant number of zombies
5. Game initialization:
   - The game now starts with both asteroids and zombies

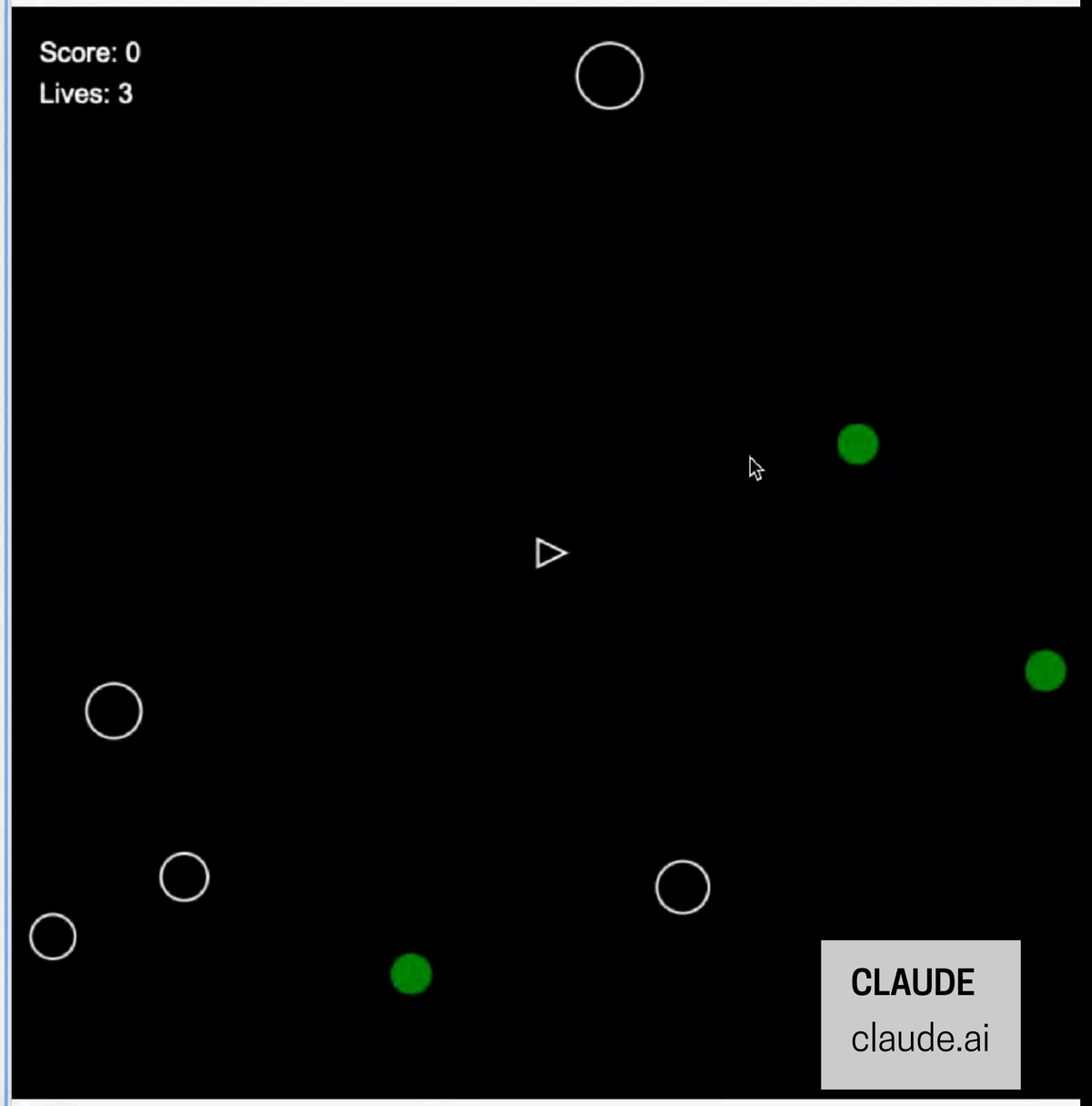
The gameplay remains the same, but with added challenge:

Reply to Claude...

Claude 3.5 Sonnet 1

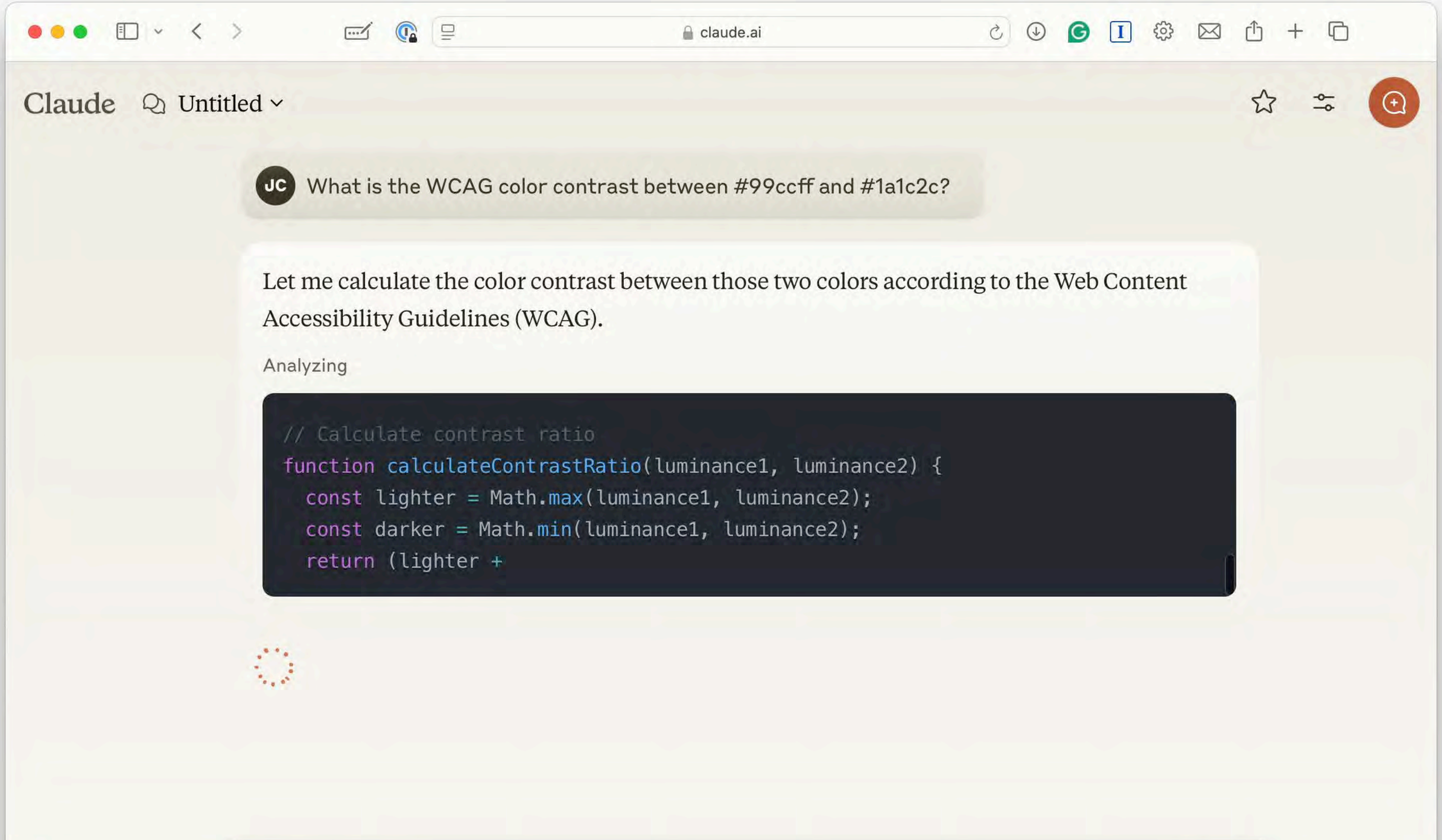
Simple Asteroids Game

Preview Code



Version 4 of 4

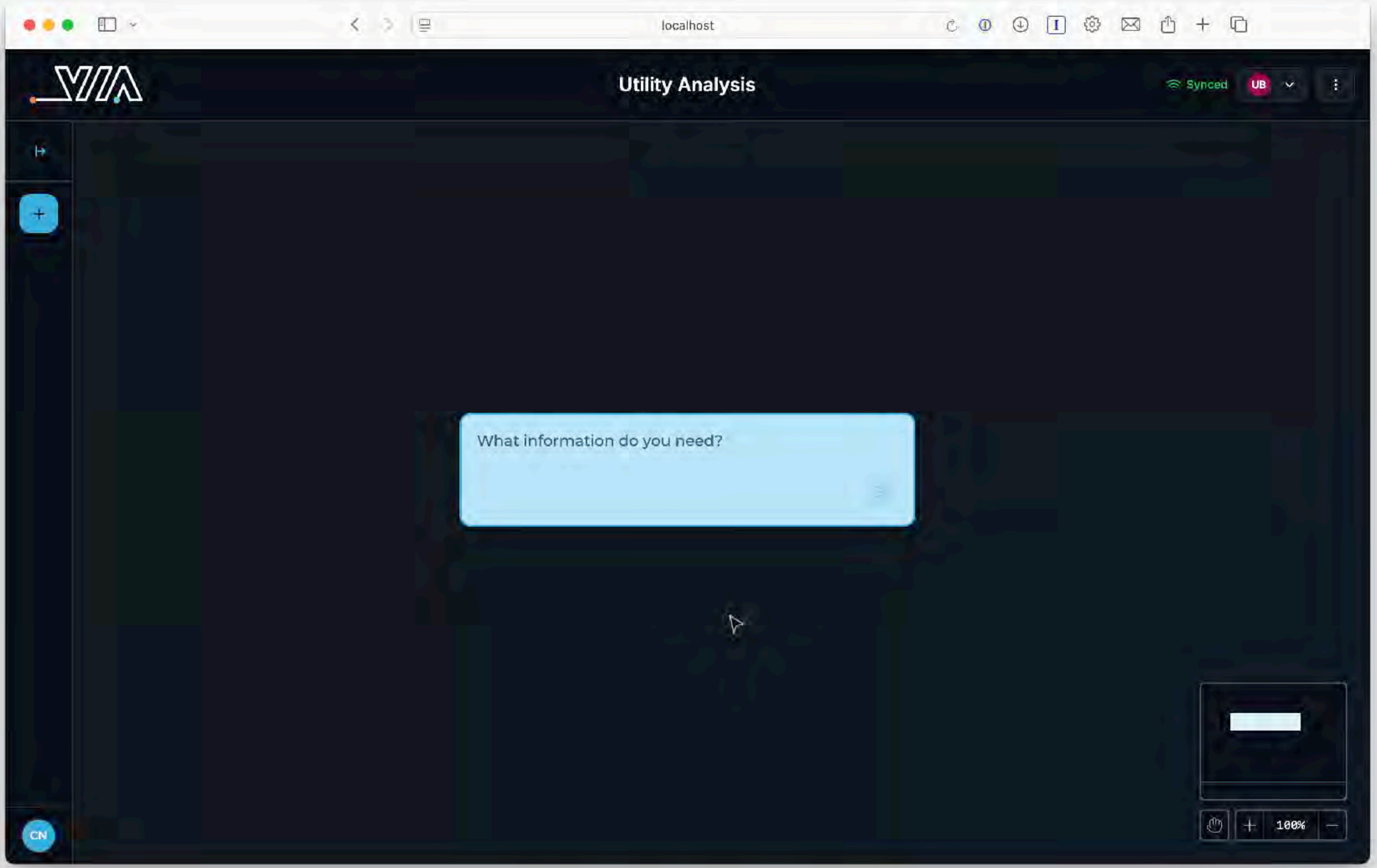
CLAUDE
claude.ai


claude.ai
Claude
Untitled
JC
What is the WCAG color contrast between #99ccff and #1a1c2c?
Let me calculate the color contrast between those two colors according to the Web Content Accessibility Guidelines (WCAG).
Analyzing
// Calculate contrast ratio
function calculateContrastRatio(luminance1, luminance2) {
const lighter = Math.max(luminance1, luminance2);
const darker = Math.min(luminance1, luminance2);
return (lighter +



HAROLD *and the* PURPLE CRAYON




localhost
Utility Analysis
Synced
UB
What information do you need?
CN
100%

THERE’S SO MUCH MORE

INTELLIGENT INTERFACES
AWARENESS + AGENCY



Sentient Design

CRAFTING INTELLIGENT INTERFACES WITH AI

by JOSH CLARK with VERONIKA KINDRED

foreword by John Maeda

Rosenfeld

JOSH CLARK

OLD SCHOOL

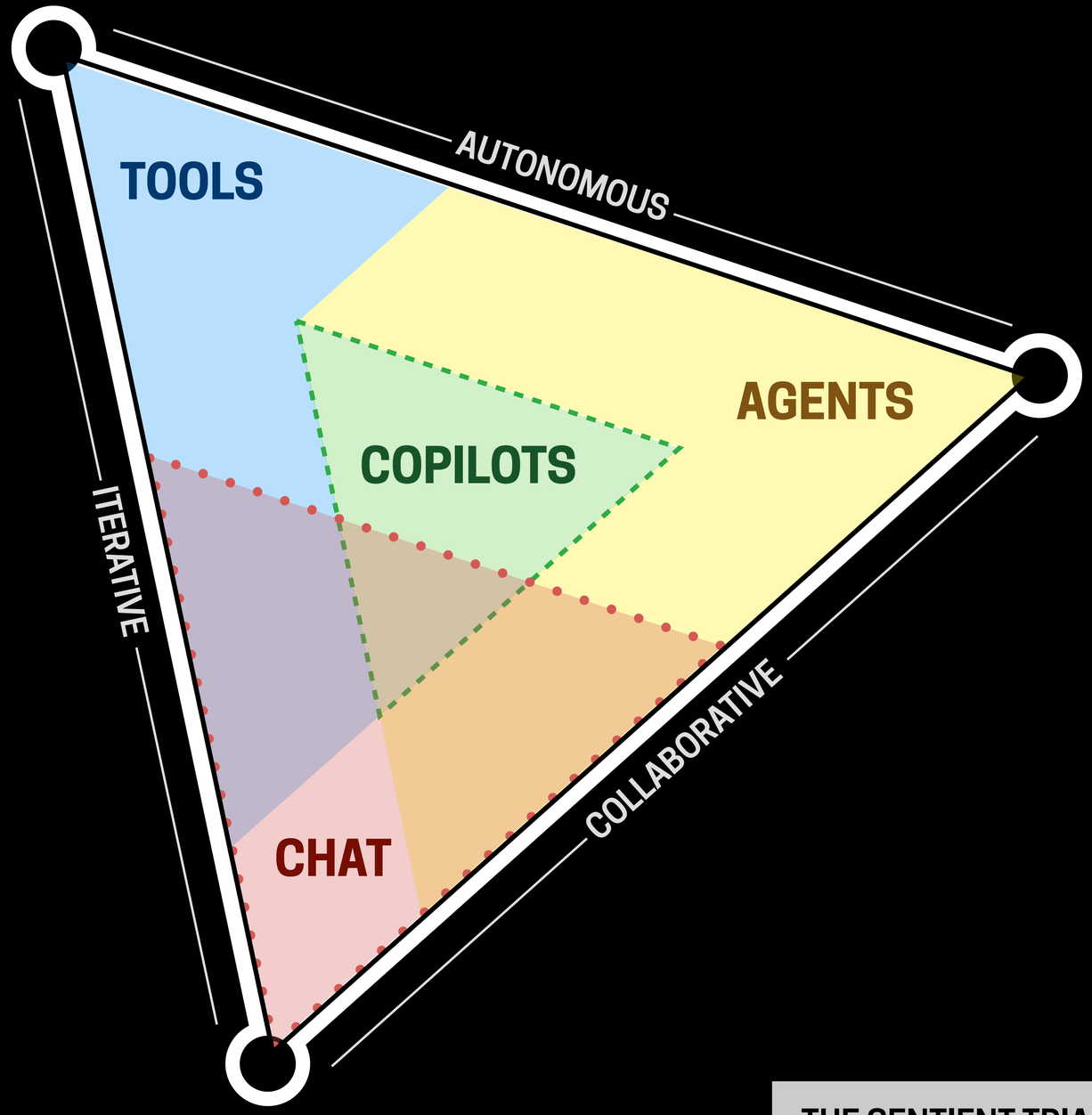
VERONIKA KINDRED

NEW SCHOOL

WHAT DOES A.I. MEAN FOR THE NEXT GENERATION OF EXPERIENCE DESIGN?

GROUNDED

Accurate and reliable



INTEROPERABLE

Works across systems

RADICALLY ADAPTIVE

Conceived and delivered in real time

THE SENTIENT TRIANGLE

bigmedium.com/ideas/shape-of-sentient-design.html

SENTIENT DESIGN POSTURES

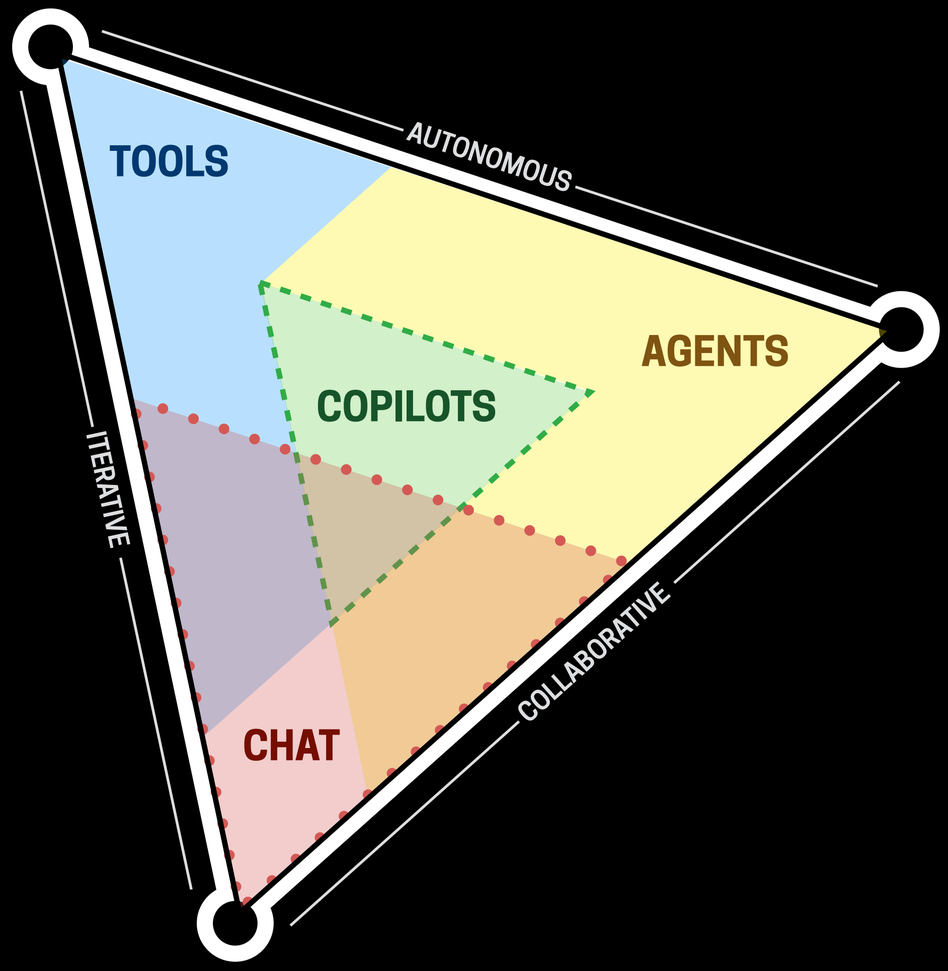
TOOLS
CONTROL AND PRECISION

CHAT
OPEN-ENDED EXPLORATION AS A PEER

AGENTS
AUTONOMOUS, PRO-ACTIVE TASKS

COPILOT
QUIET, CONTINUOUS COLLABORATION

GROUNDED
Accurate and reliable

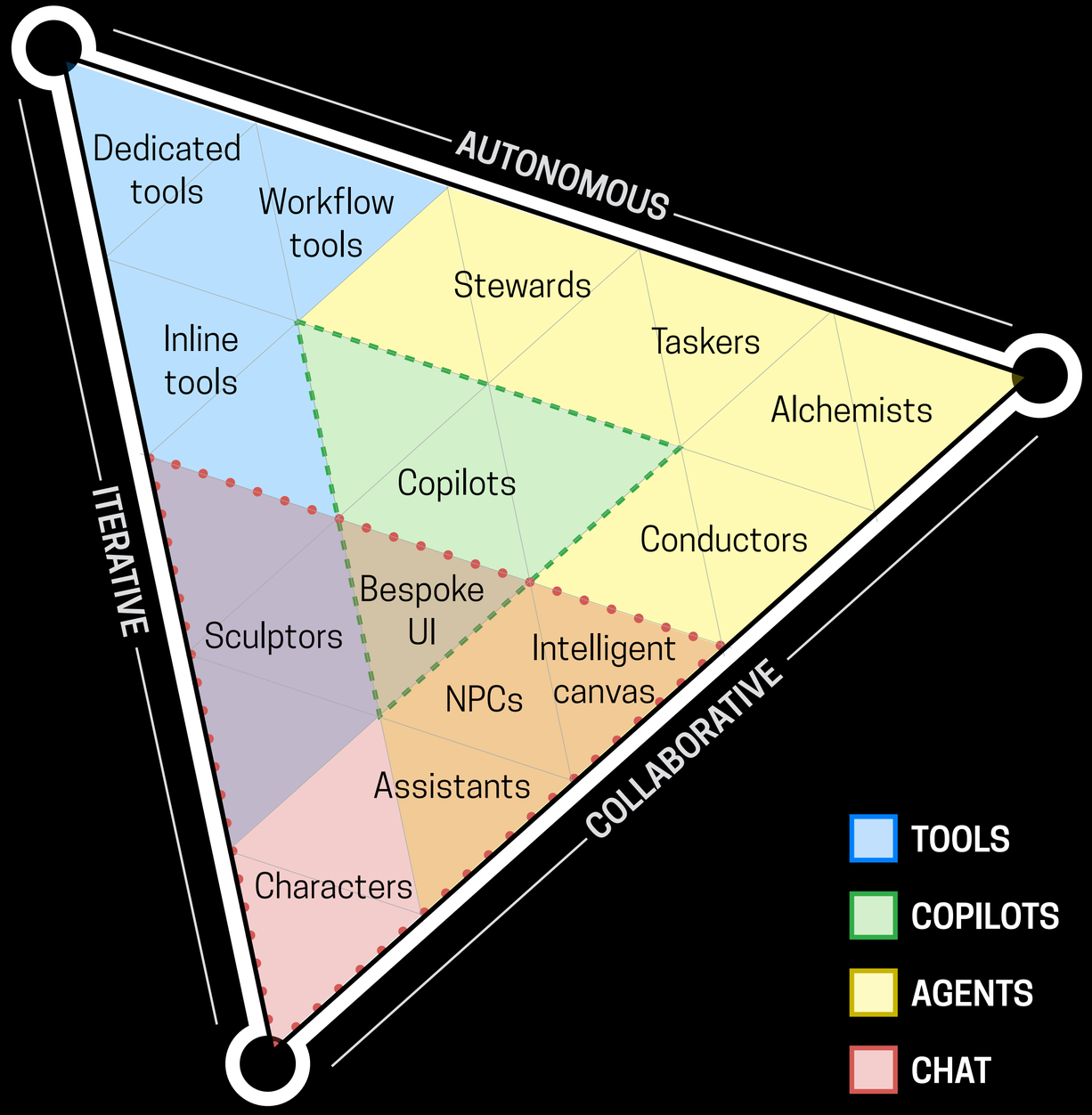


INTEROPERABLE
Works across systems

RADICALLY ADAPTIVE
Conceived and delivered in real time

GROUNDED

Accurate and reliable



INTEROPERABLE

Works across systems

TOOLS

COPILOTS

AGENTS

CHAT

RADICALLY ADAPTIVE

Conceived and delivered in real time

YOU DELEGATE
REAL-TIME DESIGN DECISIONS
TO THE SYSTEM

THIS IS DELEGATION, NOT ABDICATION

YOU ARE THE CREATIVE DIRECTOR
WHO GIVES THE SYSTEM ITS BRIEF

AGENTS WORK IN THE BACKGROUND, BUT THEY SHOULDN’T BE INVISIBLE

HOO-HA



YOUR BRAIN ON AGENTS

FROM USER EXPERIENCE TO MANAGER EXPERIENCE

Delegating work to agents shares similarities assigning work to people, whether those people are toddlers, teens, or colleagues. Agent experiences should support the five stages of delegation and management shown in Figure 7.5.

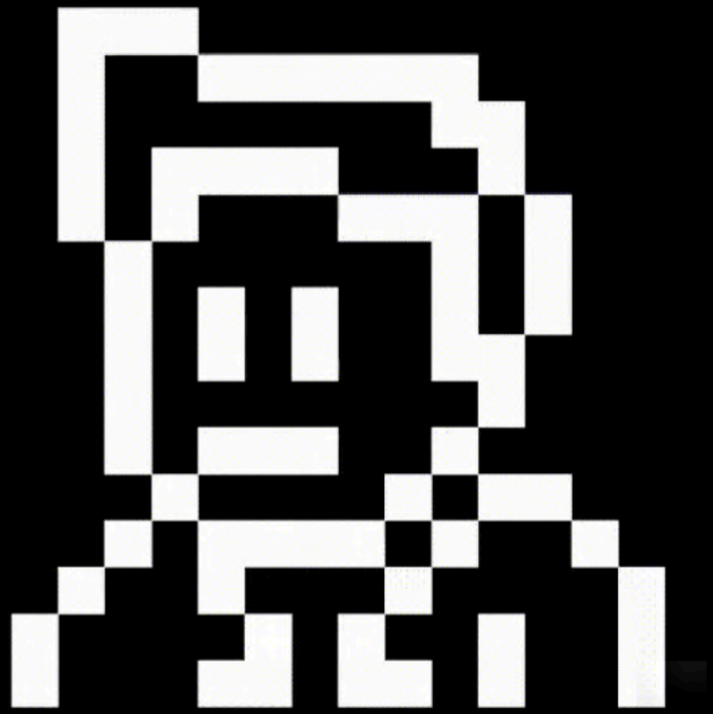


FIGURE 7.5

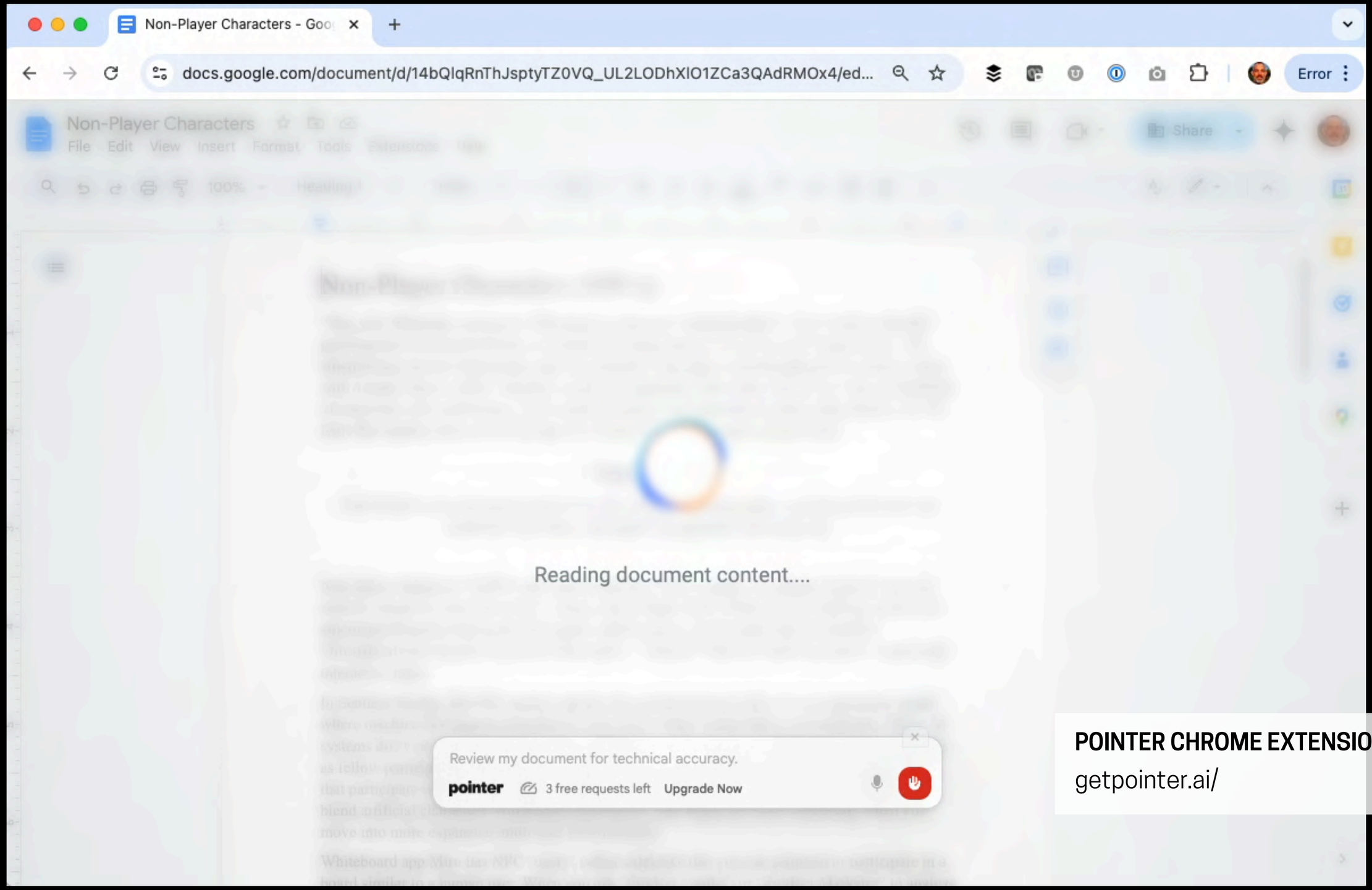
A successful manager experience supports five stages of delegation.

- **Role and** and a clear end
- **Constraints:** The user giving it guidelines for what account for. What's the scope of straints that should inform the ag room for agent improvisation wh uncertainty that the agent should if the cost is over $100").
- **Context:** If the agent is writing repository and guidelines. If it's national forest, it needs access t patterns, and current staffing le
- **Success:** How will the agent kn than just the actions to take or t result should accomplish. For a just that an event is on the cale at least 80 percent of attendees success by saying what *not* to rentals for me to review, but d

For the designer, helping the user the same challenges that nudge p seek to answer for assistants (ref Conversational



THE NPC EXPERIENCE PATTERN



POINTER CHROME EXTENSION

getpointer.ai/


FILIP HAVELENA

A.I. IS OUR NEW DESIGN MATERIAL

THE FUTURE SHOULD NOT BE SELF-DRIVING

YOU ARE
NEEDED MORE
THAN EVER

THANK YOU!



BIG MEDIUM
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NEWSLETTER
“A Little Big Medium”

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linkedin.com/in/joshclark

VERONIKA LINKEDIN
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