



Adobe Firefly

Designing a prompting pattern

IDP 2025 - Indiana University

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Hi, I'm Troy



Since learning from Professor Siegel, I've been building creative tools at Adobe for 20 years, and I can tell you: some of the hardest design problems aren't about making a single feature look nice — they're about designing coherence across workflows and contexts.

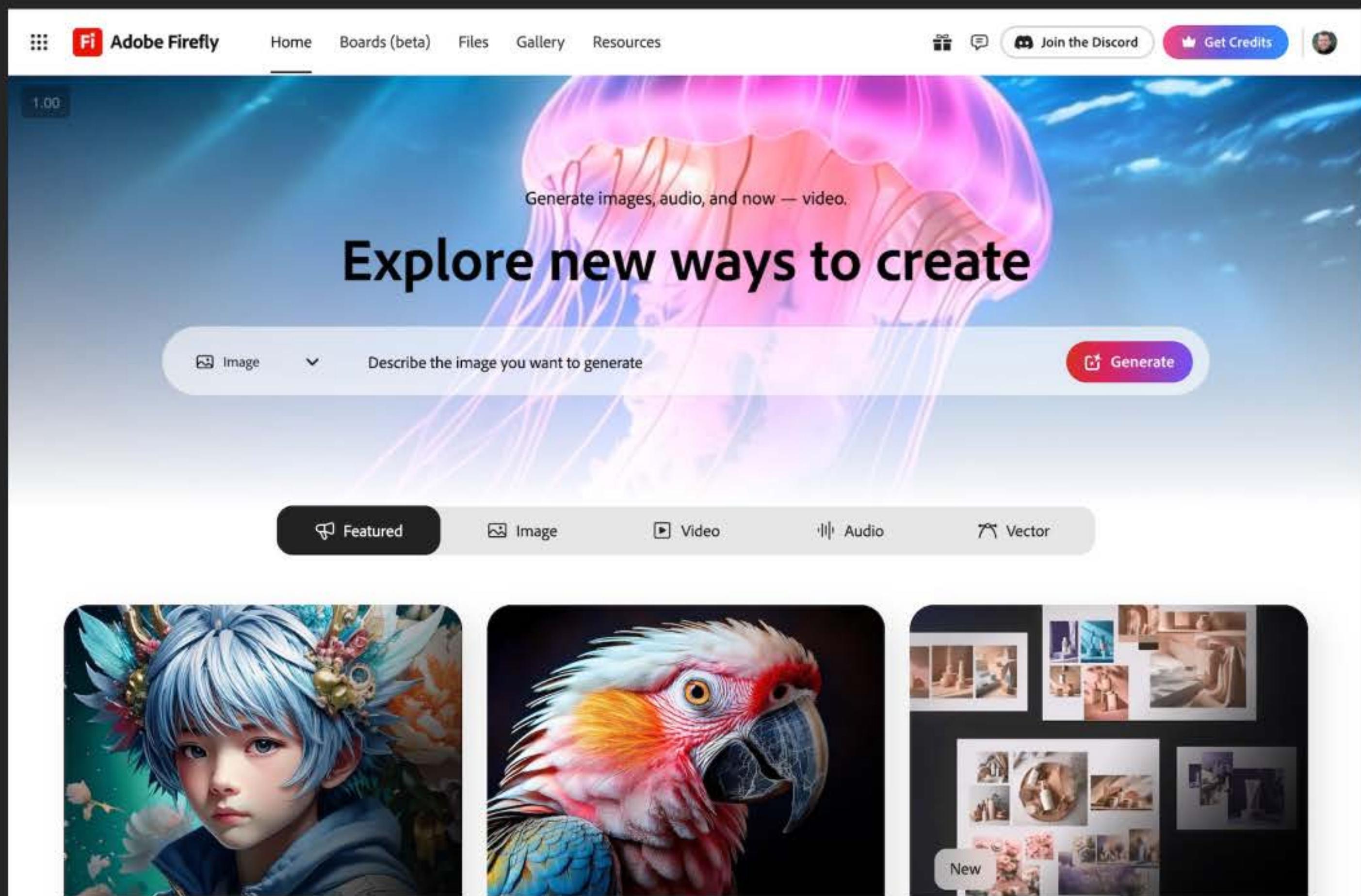
That's exactly the challenge I want to share with you.



Intro and Context

Adobe Firefly is Adobe's generative AI platform for creating images, videos, audio, and graphics.

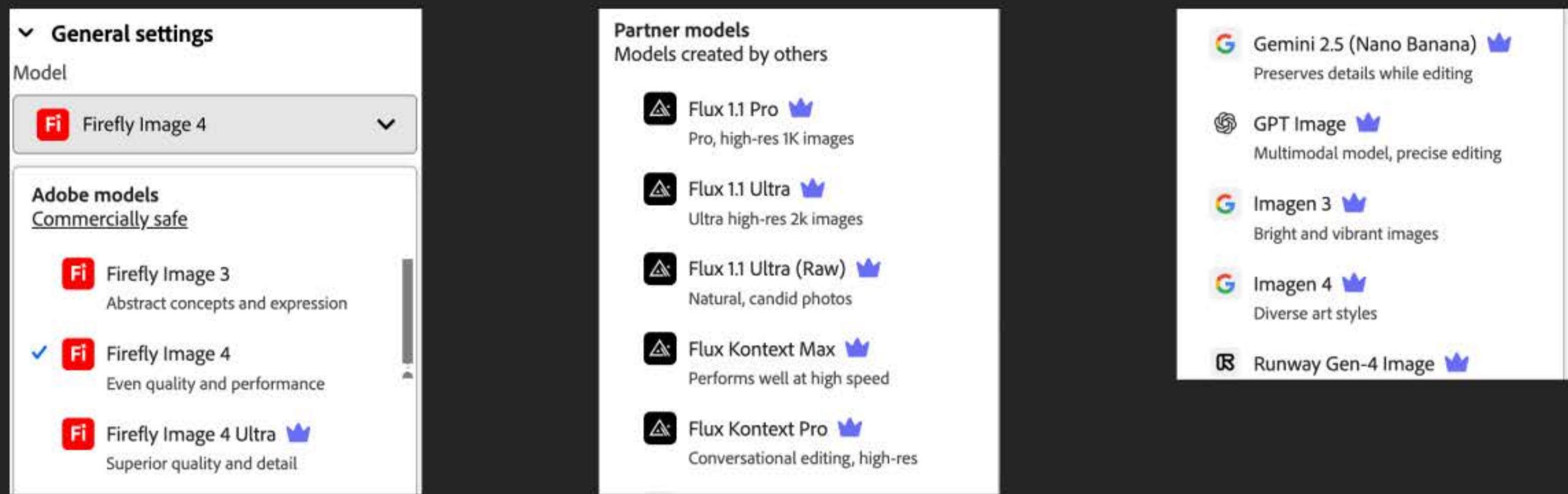
Under the hood, Firefly is powered by a set of foundational AI models (image, audio, video, etc.). On top of those models, we offer user-facing features — like Text to image, Text to video, Generate sound effects (beta) , and various others. Think of AI models as the engines, and the various workflows as the cars you drive to get where you want to go.



3rd Party Models

Adobe is opening Creative Cloud and Firefly to 3rd party AI models, letting creators choose options like Imagen, Flux, Nano Banana, Runway, and more within the Firefly app and Creative Cloud Products.

This provides the creators who use our tools with the unique benefits of our Firefly model (commercial safety, IP protection, and provenance) —while celebrating and providing access to the latest generative AI advancements being made across the industry.

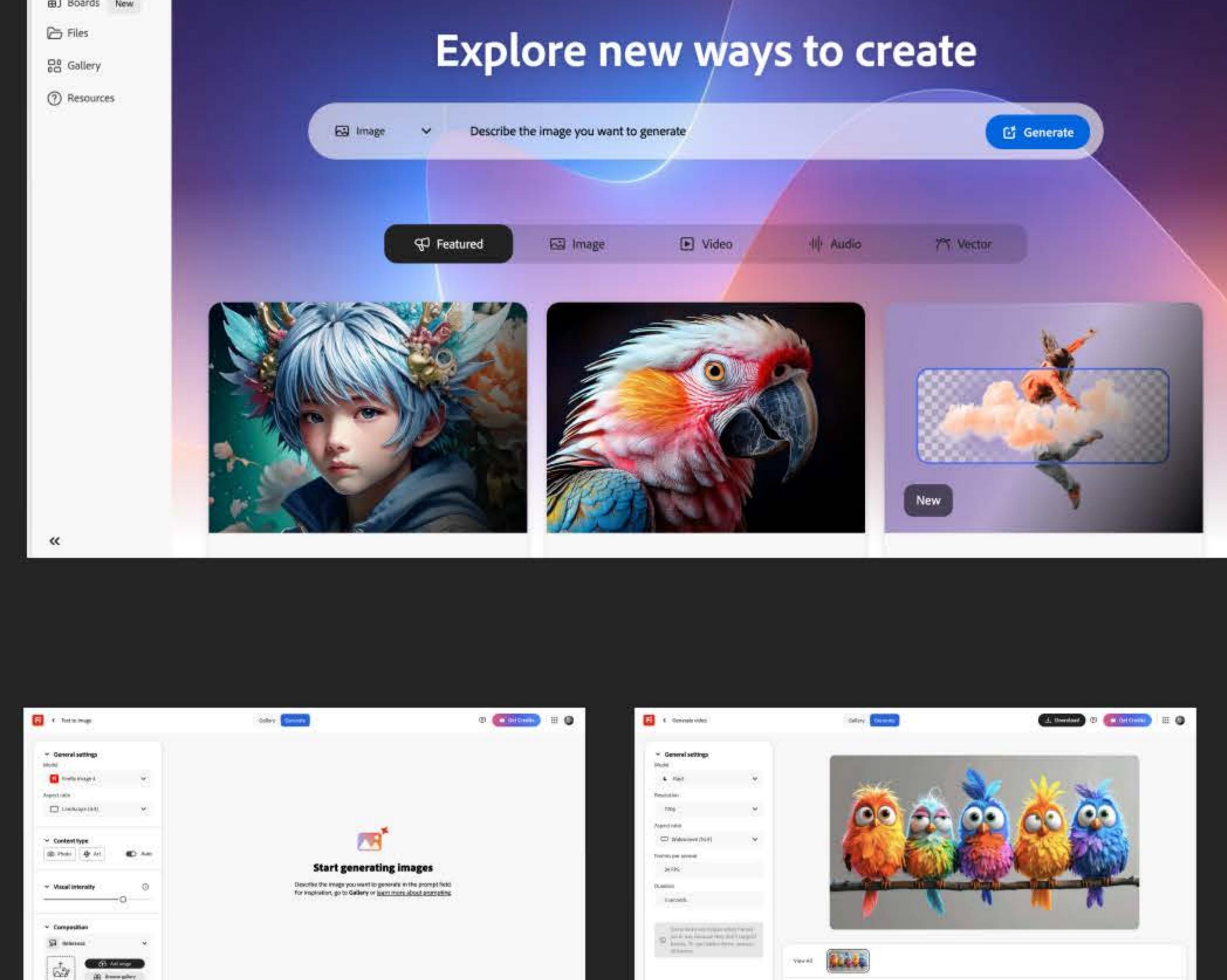


Definitions

Firefly Home

Firefly.adobe.com

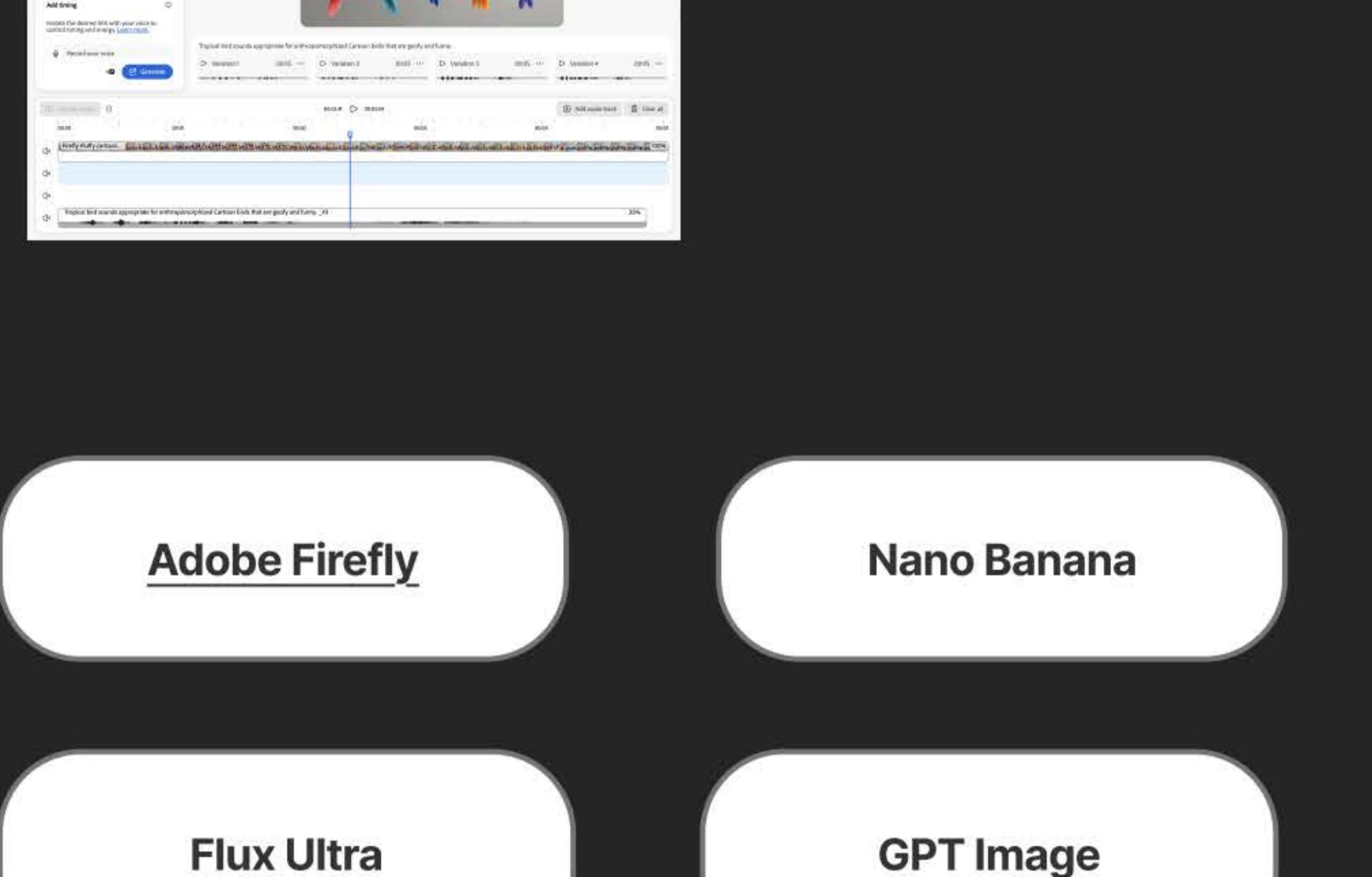
This is the current landing page for Firefly experiences.



Firefly workflows

Various features such as:

- Text to image
- Create video
- Generate sound effects (beta)
- etc...



Models (Firefly and 3rd Party)

AI systems trained on large datasets of visual, audio, or multimodal content that can generate new media (images, videos, audio, 3D assets, etc.) from text prompts, and other inputs.

Adobe Firefly

Nano Banana

Flux Ultra

GPT Image

UX Pattern - common definition

A User experience (UX) pattern is a reusable solution to a recurring user experience problem.

It's more than just a single component (like a button or dropdown) — it's a structured grouping of components, interactions, and behaviors that solve a common task in a way that's recognizable, efficient, and consistent across experiences.

Actions menu (example of shipping UX pattern in a Figma component form.)

Basic object commands

Visibility actions

Layer/ Object ordering

Menu section header

Menu item

Menu item

Menu item

Replace me

Learn more about this component. Apply auto-layout to your local component, setting it to hug context for both components and their parent components. Then, swap this component with the one you created.

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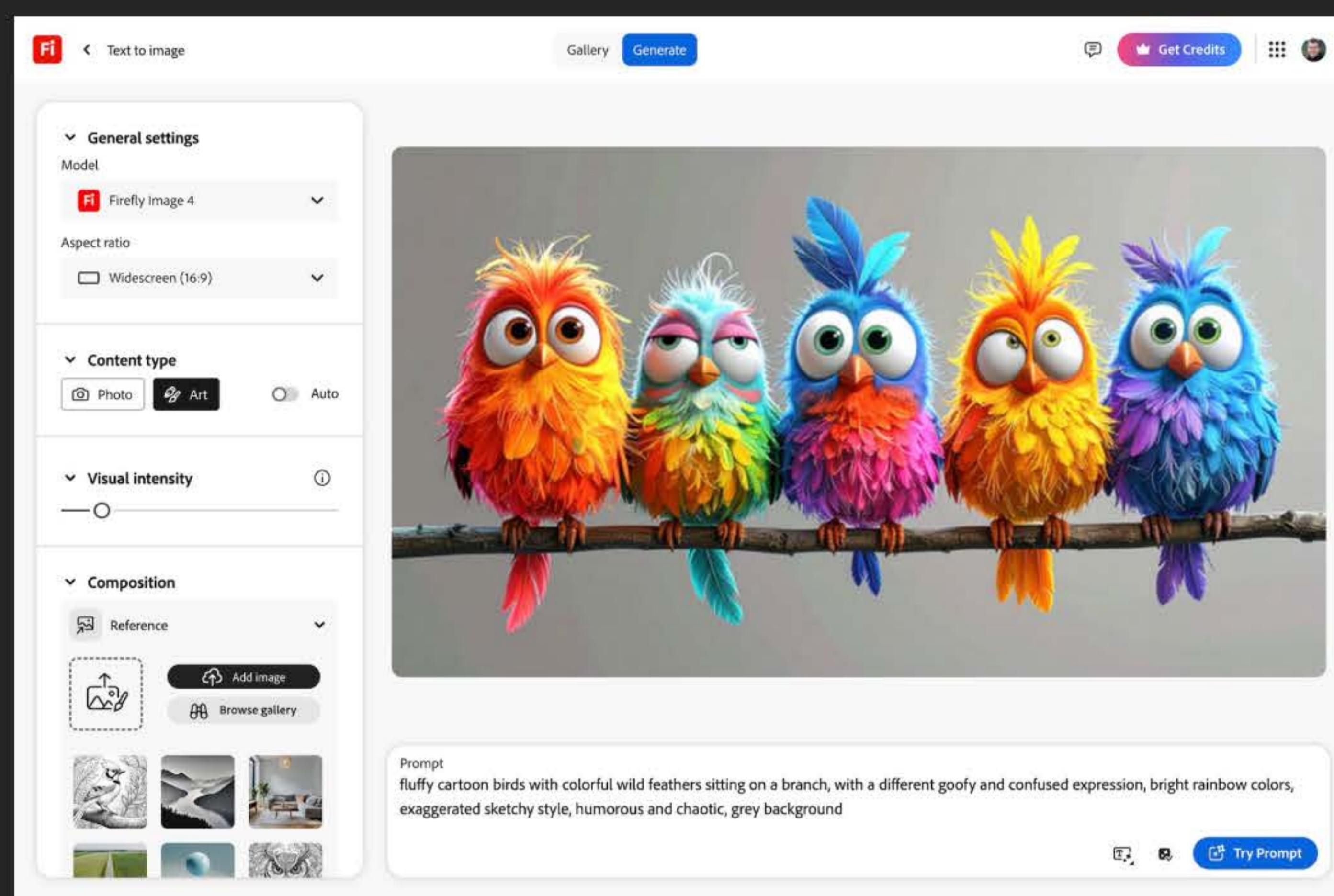
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Menu section header</

Input and output

Current user experience

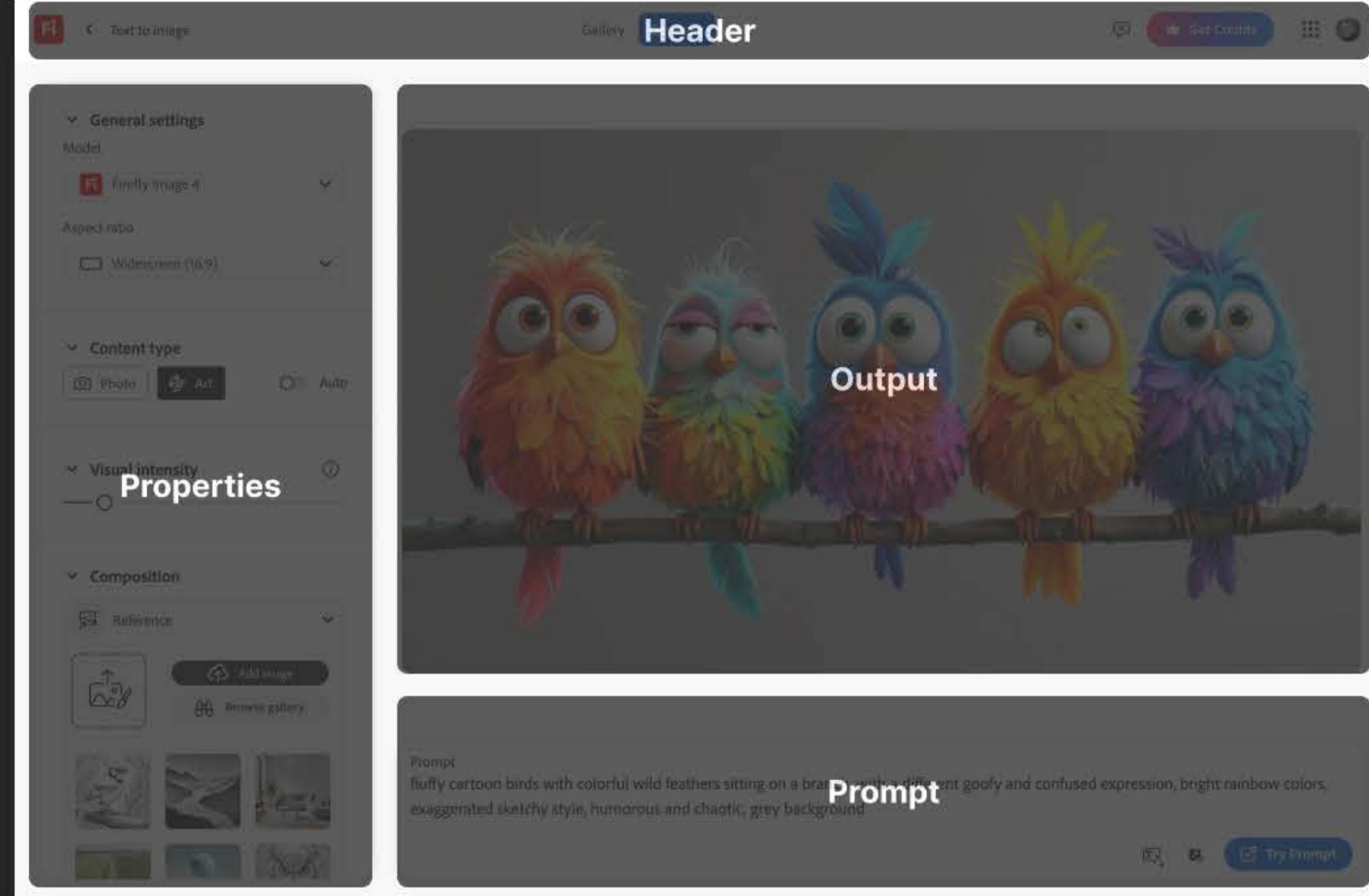
This is the current Firefly “Text to image” interface.



4 patterns

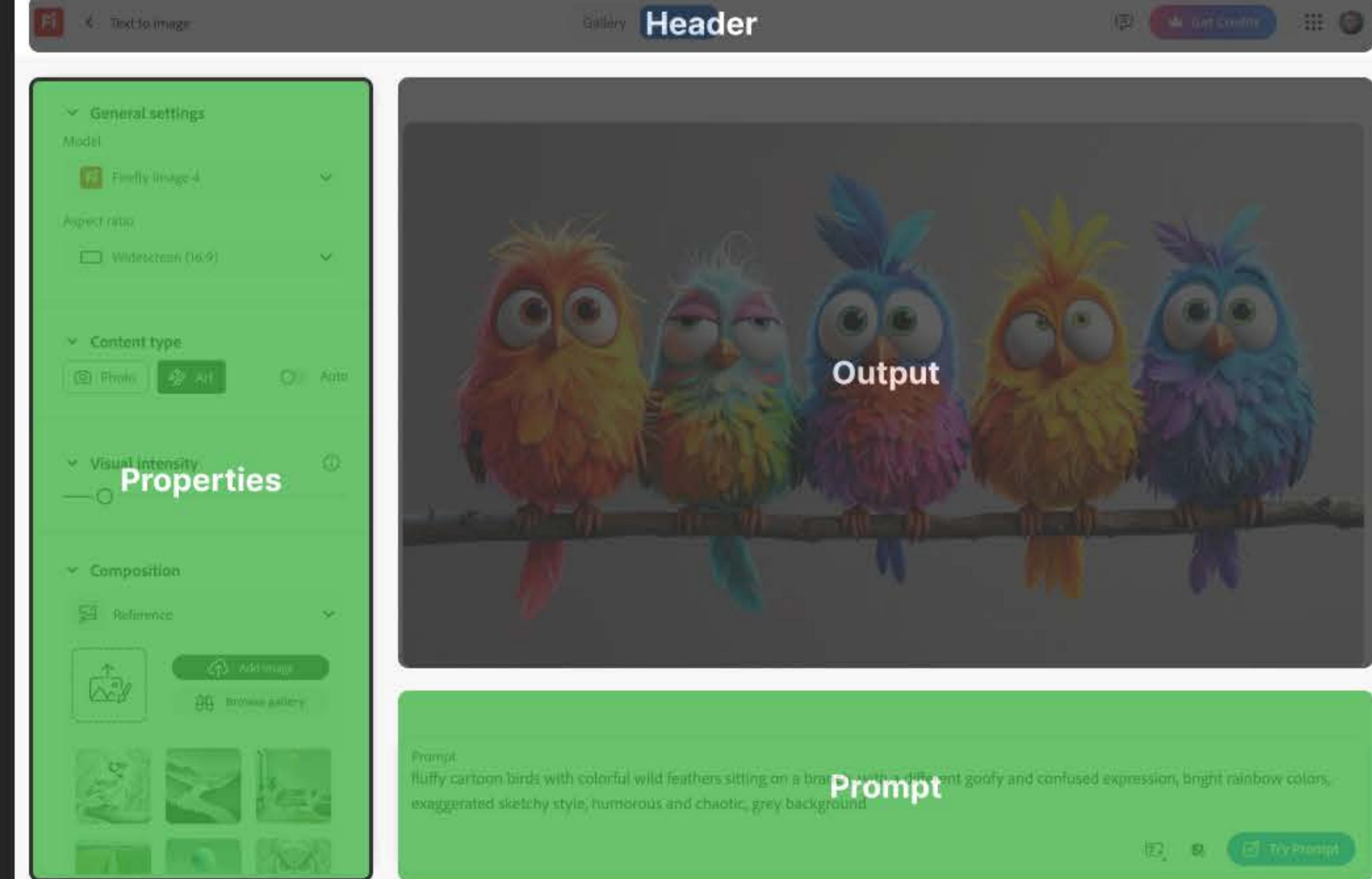
If you squint, you see 4 major affordance groups or “patterns”:

- Header bar
- Properties panel
- Output viewer
- Prompt bar



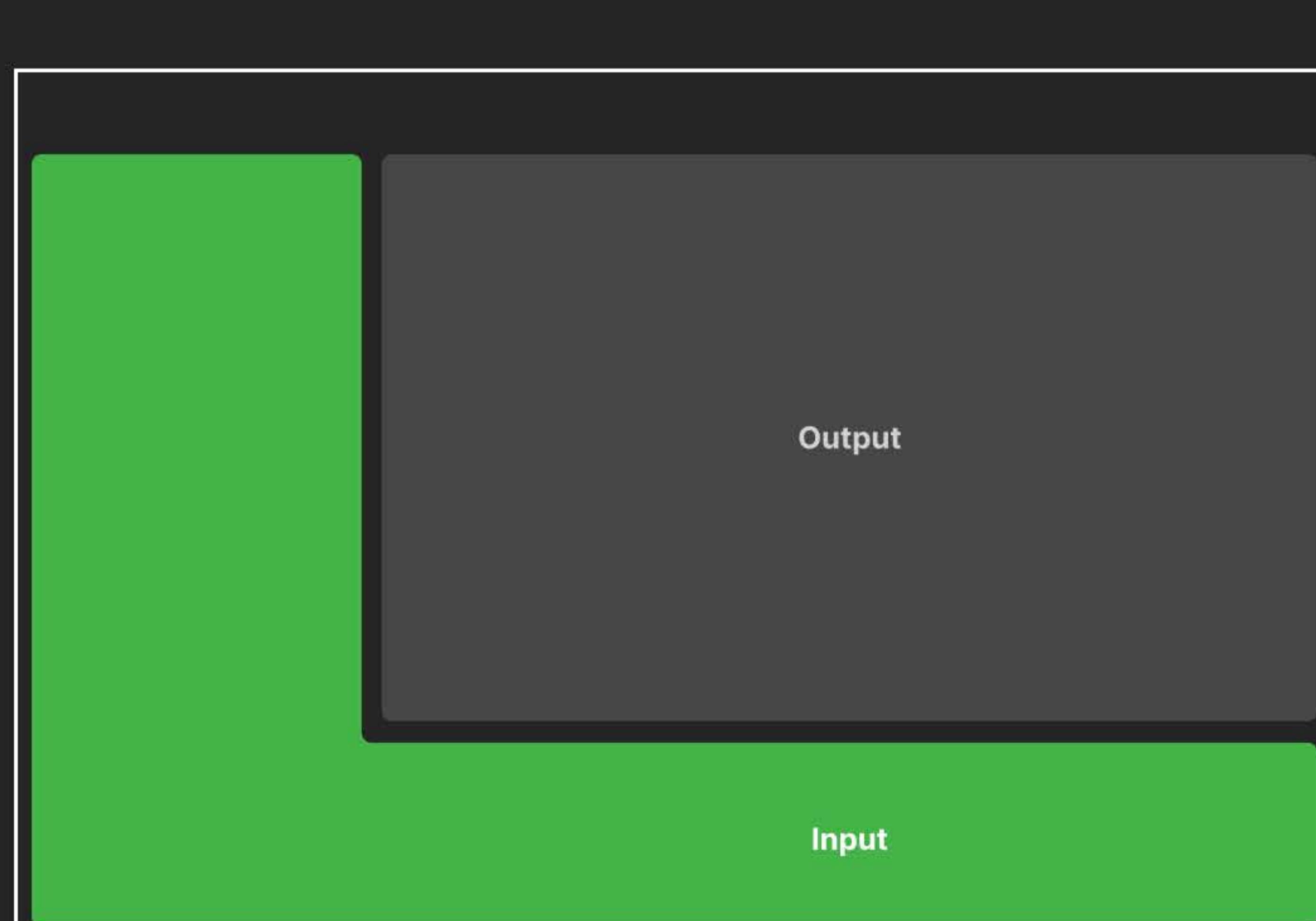
Prompting input happens in only 2 of these 4 patterns

- Properties panel
- Prompt bar



Think of it this way

The properties panel and the prompt bar are both part of the same system: the set of input affordances that make up the prompting experience. While the prompt bar is often little more than conversational text, it sometimes contains affordances for multimodal input. In generative AI, multimodal prompting means combining different types of data—like text, images, or audio—into a single prompt, giving the AI richer guidance and enabling more accurate or creative outputs.

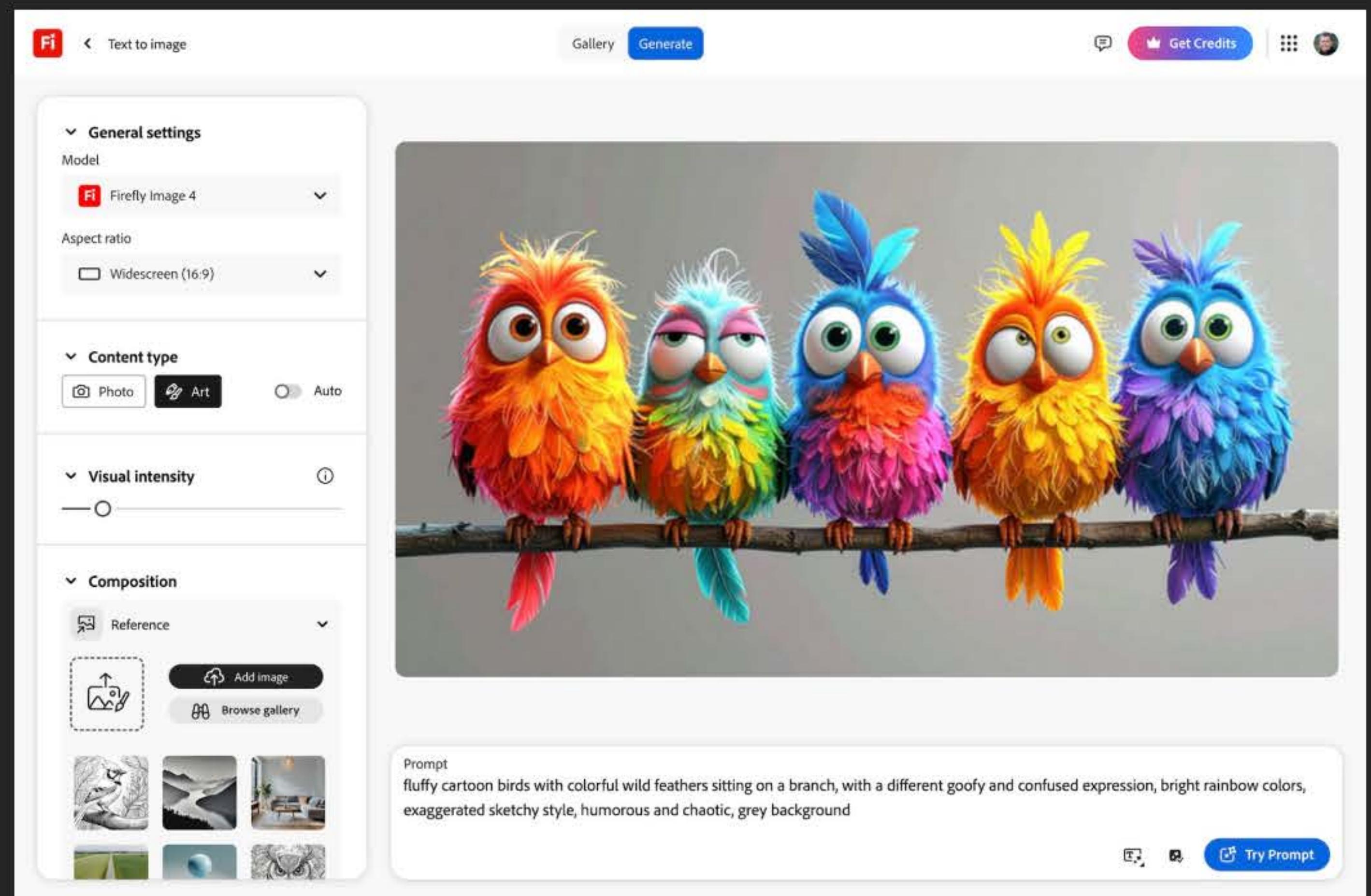


Here's the nuance

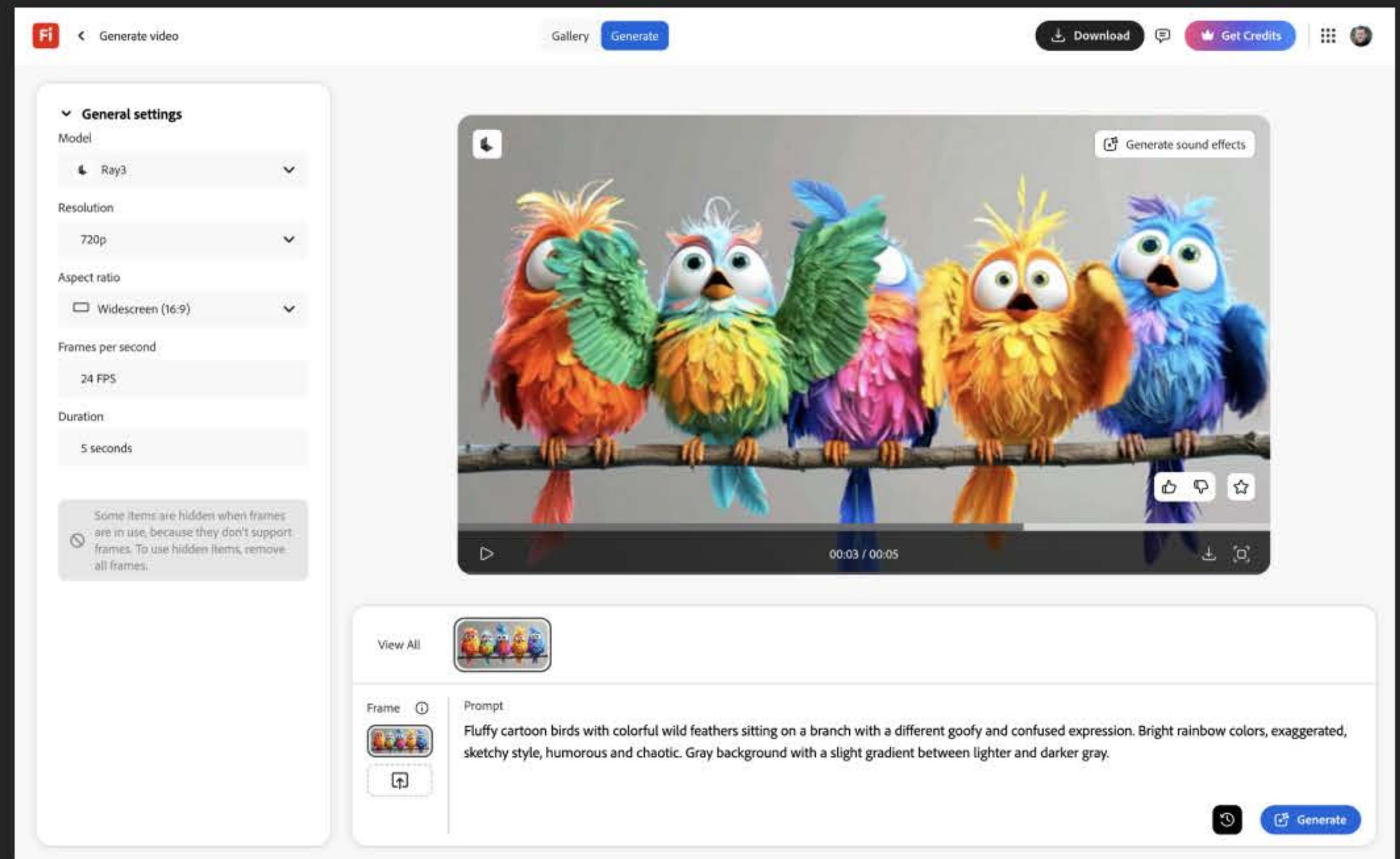
Workflow-specific needs

Each generative workflow or quick action needs something slightly different. **Video** prompts might need camera guidance. **Sound** prompts might need timing or emotion cues. **Image** prompts might need references for style or composition. If we're not careful, each workflow develops its own quirky version of prompting (and associated UX) — and suddenly Firefly feels like a collection of mismatched tools instead of a coherent family.

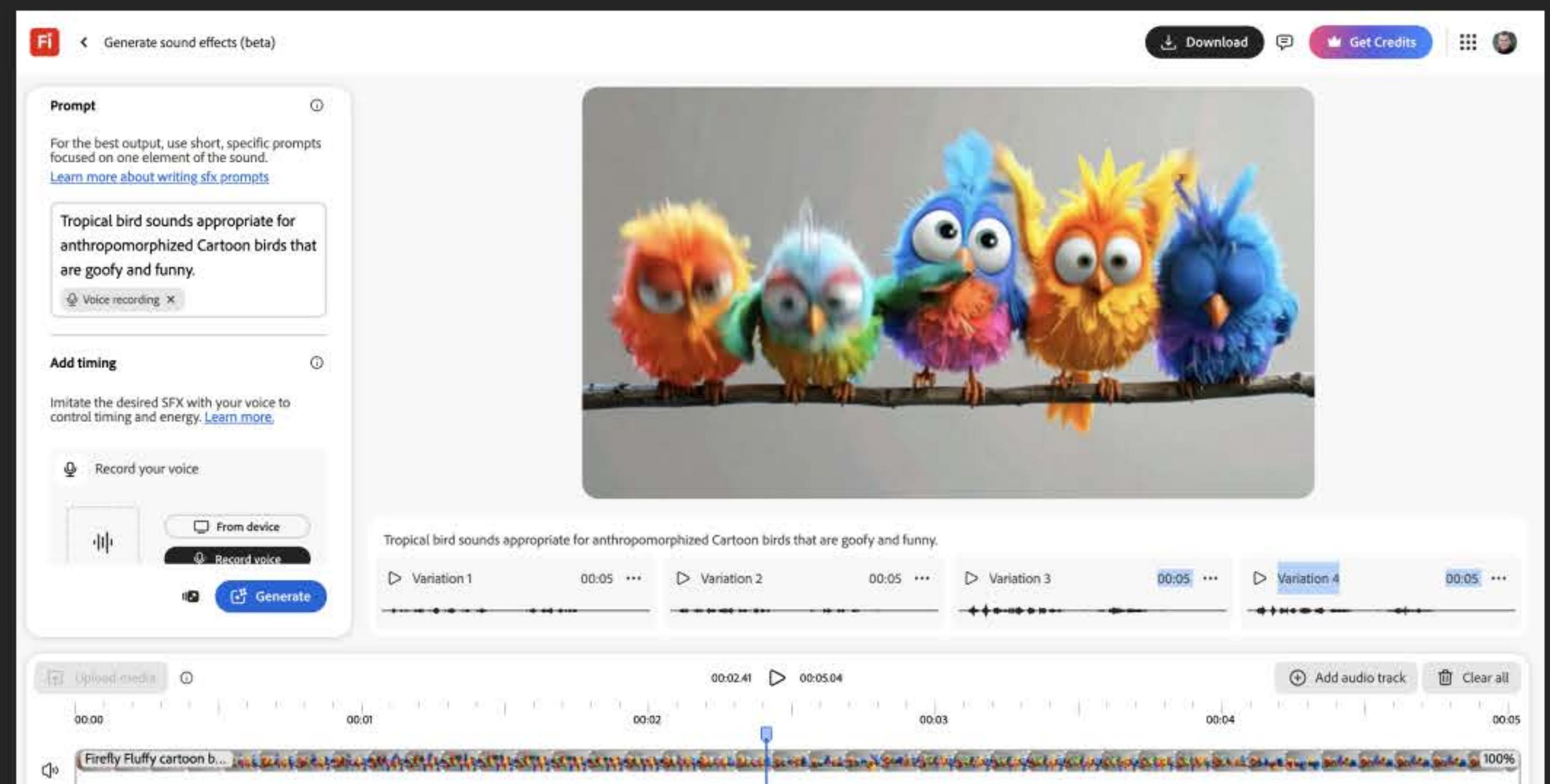
Text to image



Generate video



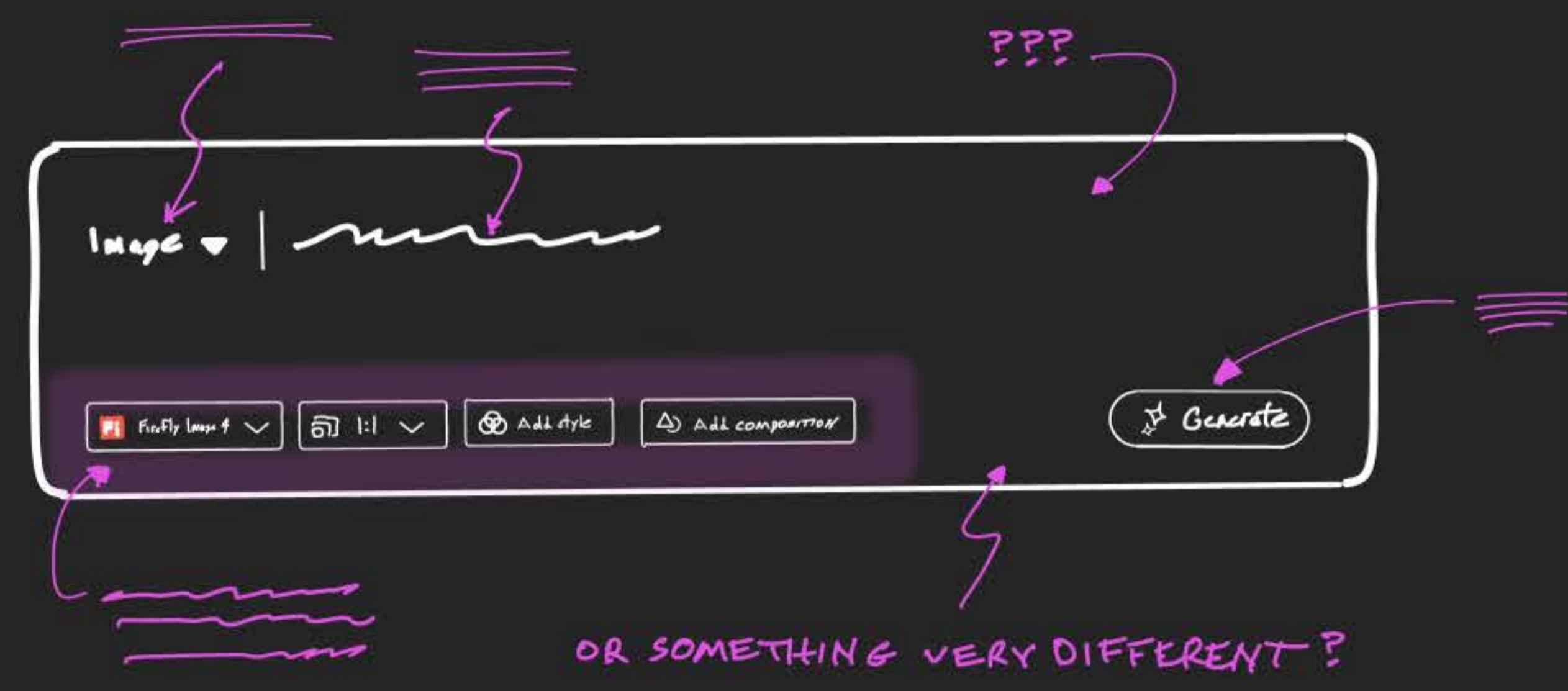
Generate sound effects (beta)



Challenge & requirements

Challenge

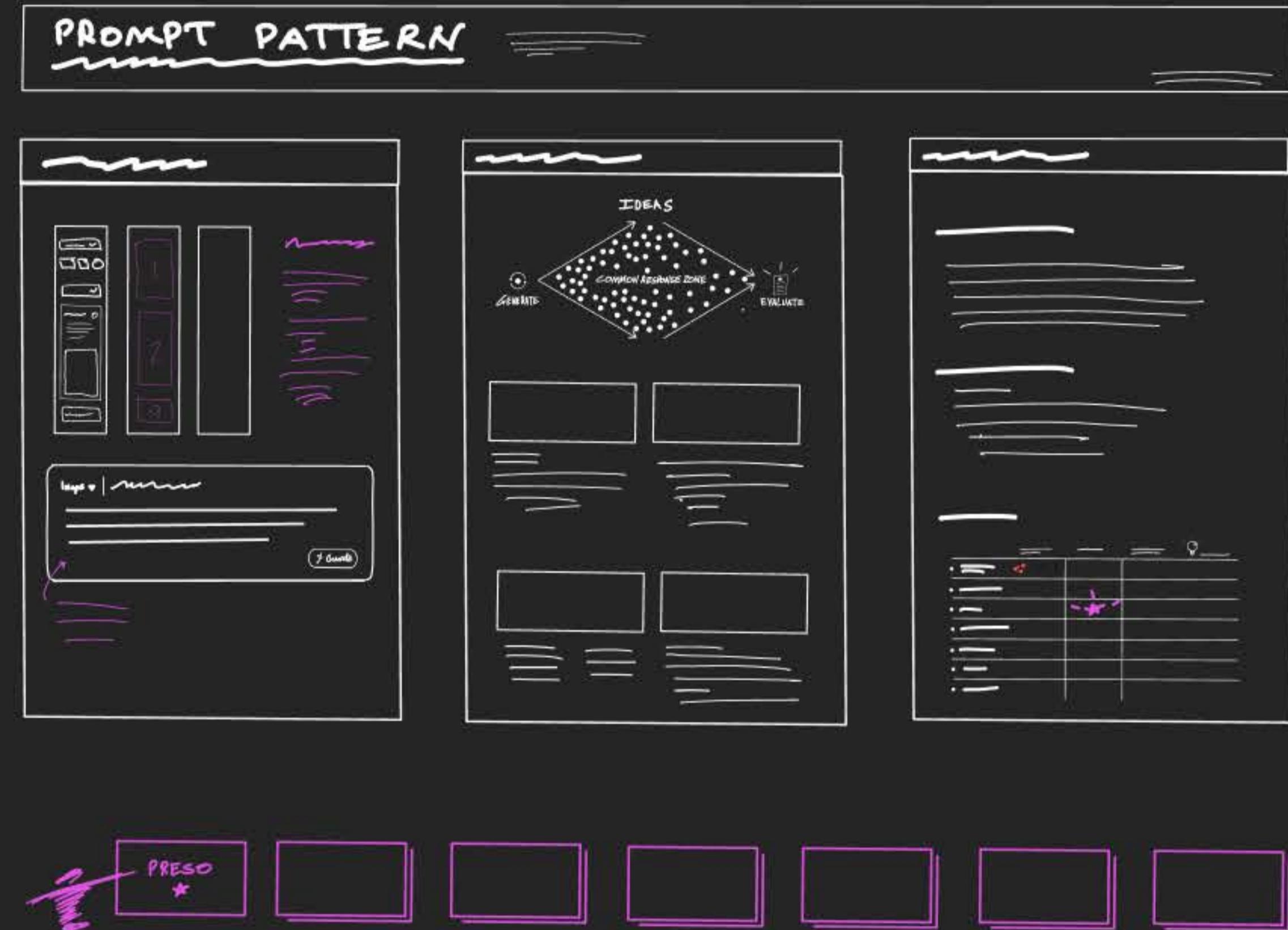
Design a Firefly prompting pattern that defines a conceptual blueprint for use across Text to image, Text to video, and Generate sound effects (beta) workflows, then express it in two forms: annotated hand-drawn sketches (digital or analog) and representative Figma component(s).



Requirements (3 parts)

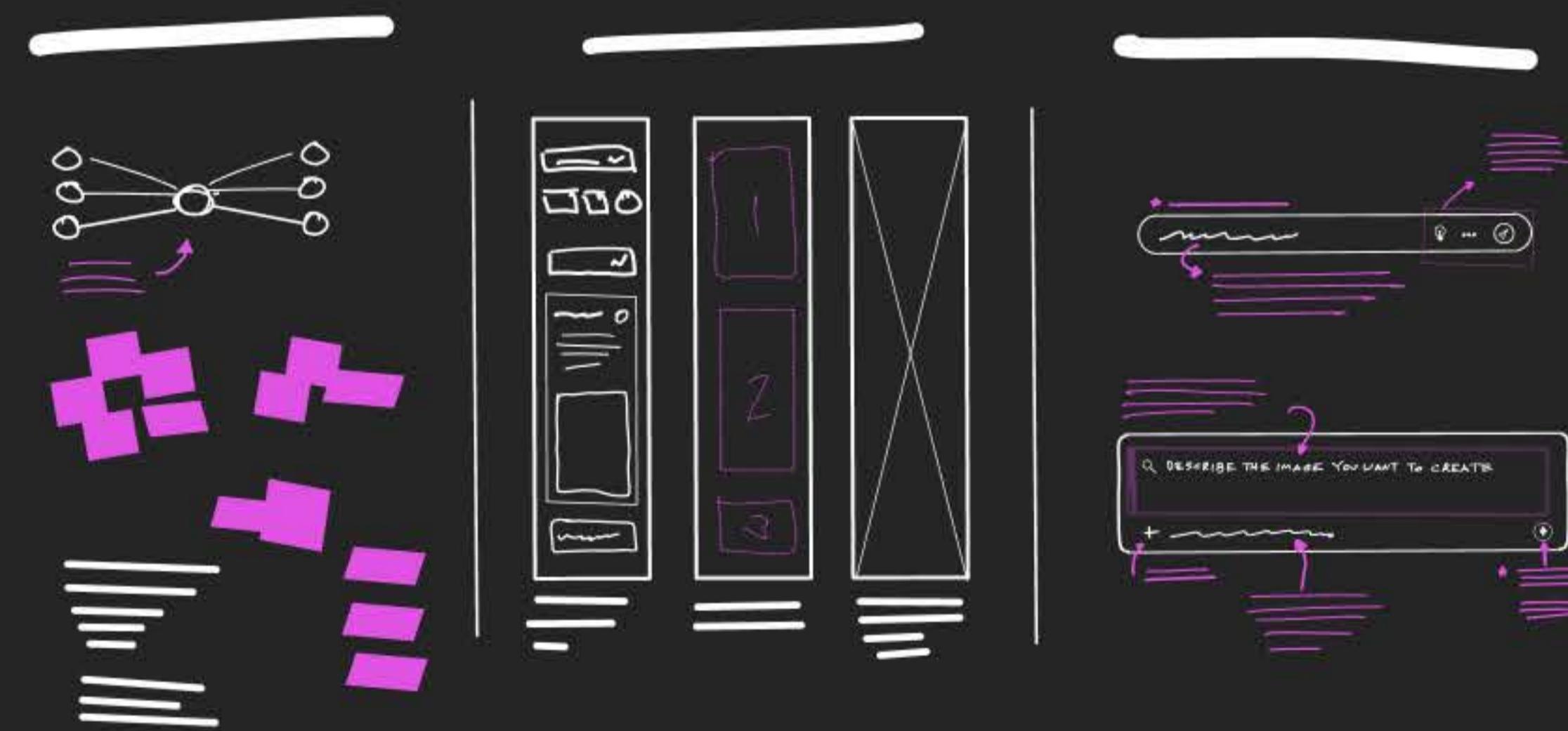
1. Conceptual pattern (blueprint)

- Document a prompting pattern that is flexible enough to coherently work across different media types and workflows - particularly Text to image, Text to video, and Generate sound effects. Define the key objects, relationships, calls to action, and attributes that make up the pattern.
- Demonstrate understanding of the definitions and nuance mentioned previously by explicitly stating how they are incorporated in your design.



2. Sketch instantiation

- Hand-drawn sketches and annotations that demonstrate your:
 - Learning and research
 - Design explorations
 - Details and nuances of your design
- This serves as the first tangible representation of the blueprint.



3. Figma instantiation

- Working Figma component(s) that demonstrate the conceptual pattern.
- Shows how the blueprint translates into a usable design system asset.

YOUR ACTUAL
Figma
COMPONENT(S)

All this results in a succinct hierarchy: **Conceptual idea** → **Sketch** → **Figma component**

Questions to consider

What are the **key elements** of a prompting experience?

What **attributes and calls to action** are most important. And **how do you prioritize** them in the interface?

What flexes, and why? For instance can/should the prompting experiences change depending on media type, Ai Model, or other contextual factors (input type, screen size, etc..., etc...).

Minimal → Complex: Show how **the pattern can scale** from a very simple prompt experience (just text + generate button) to a richer prompt with style references, advanced attributes, or presets.

Consistency vs. Flexibility: Too much consistency = boring or limiting. Too much flexibility = chaos. Where's the sweet spot?

How do you decide what belongs in an affordance such a “prompt bar” vs. a properties panel or similar?

How do you help a beginner feel comfortable while still affording more advanced users power and control?

Final thought

Multi-modal prompting—guiding AI models with combinations of text, images, audio, or video—is emerging as a shared language of creative AI.

At Adobe, we believe designers should help shape that language so it stays approachable, empowering, and coherent across tools.

That means thinking not just about individual prompts, but about the system of interactions that tie them together.

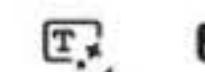
I'm excited to see how you explore this challenge, what you learn, and how you design the future of prompting.

-Troy



Prompt

fluffy cartoon birds with colorful wild feathers sitting on a branch, with a different goofy and confused expression, bright rainbow colors, exaggerated sketchy style, humorous and chaotic, grey background



Try Prompt