Brainstorming

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CS 247

THANKS TO SCOTT KLEMMER AND MANEESH AGRAWALA

Congrats on P2

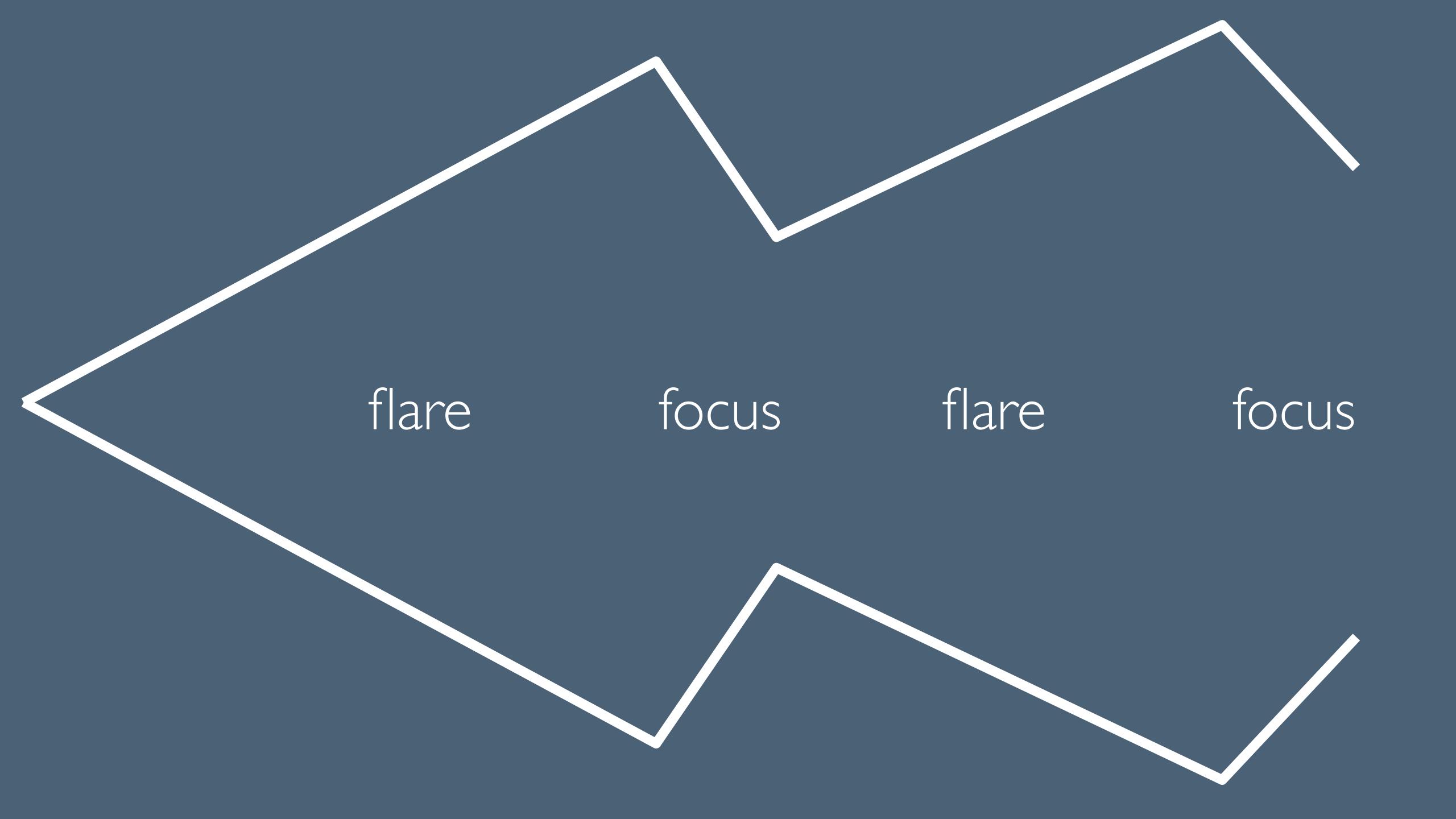
Act III: Prototyping

Forty circles

Sixty seconds. How far can you get?

"Math is easy. Design is hard."

Jeffrey Veen, former VP of Product Design at Adobe



Cardinal rules of brainstorming

- · Go for quantity
- · Defer judgment
- Enforce a time limit
- · Riff and build on others' ideas

Roles in brainstorming

- Facilitator
 - · Not the manager or leader!
 - Keeps the conversation flowing
- Recorder
 - · Gets everything up on the whiteboard (or sketchbook)
- Participant

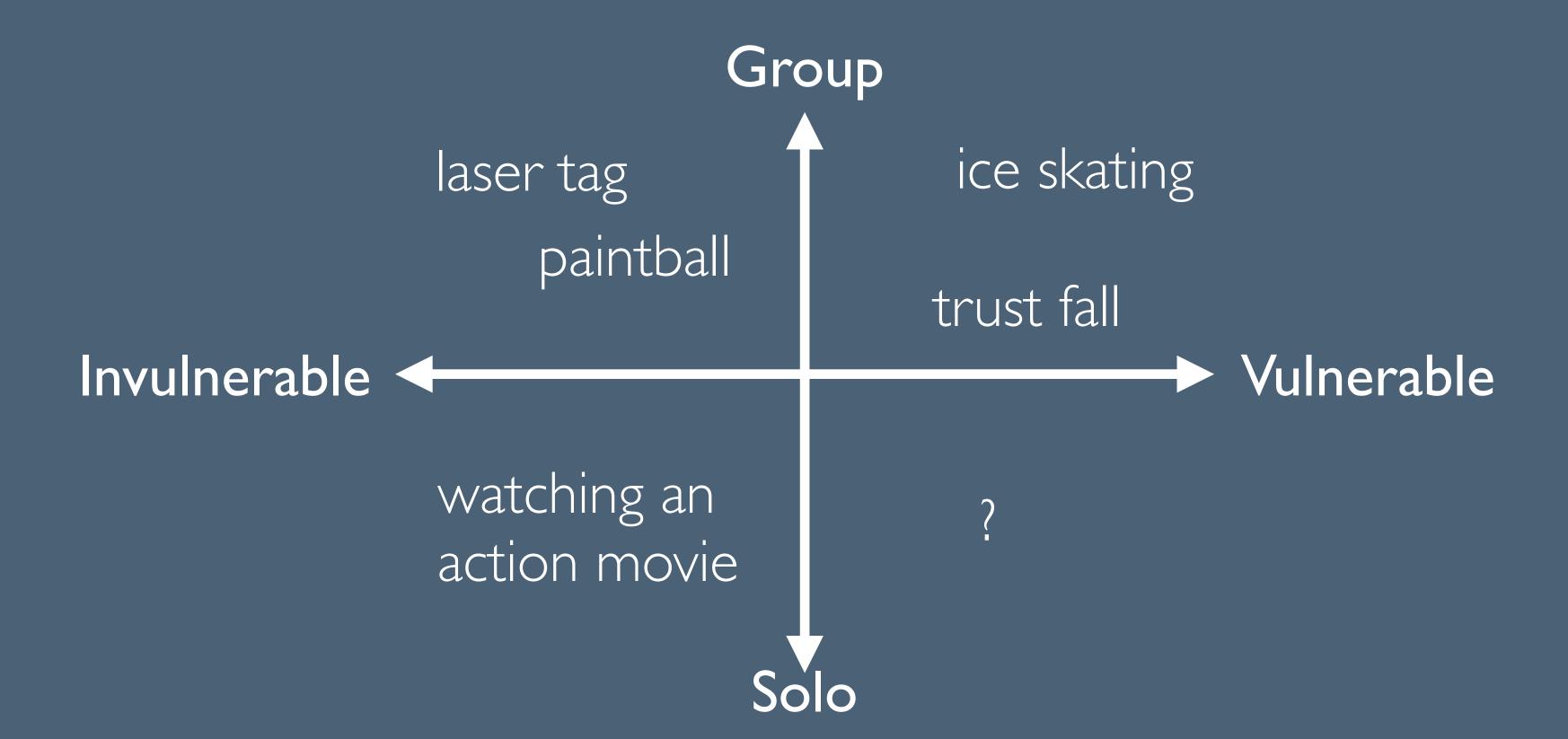
Brainstorming strategies

One tactic: Powers of Ten

- When you're considering a question, scale it up and scale it down
- · Ice skating as a deliberate controlled vulnerability...
 - · Could 1000 people at once engage in a controlled vulnerability activity? Could someone do it alone?
 - · Could we do this in extreme heat environments?

Design space axes

· Pull out high-level dimensions along which your observations or ideas vary, then look for holes



Good ideas can be bad

· Ideas intended to address the How Might We's often end up as local fixes or "safe" solutions

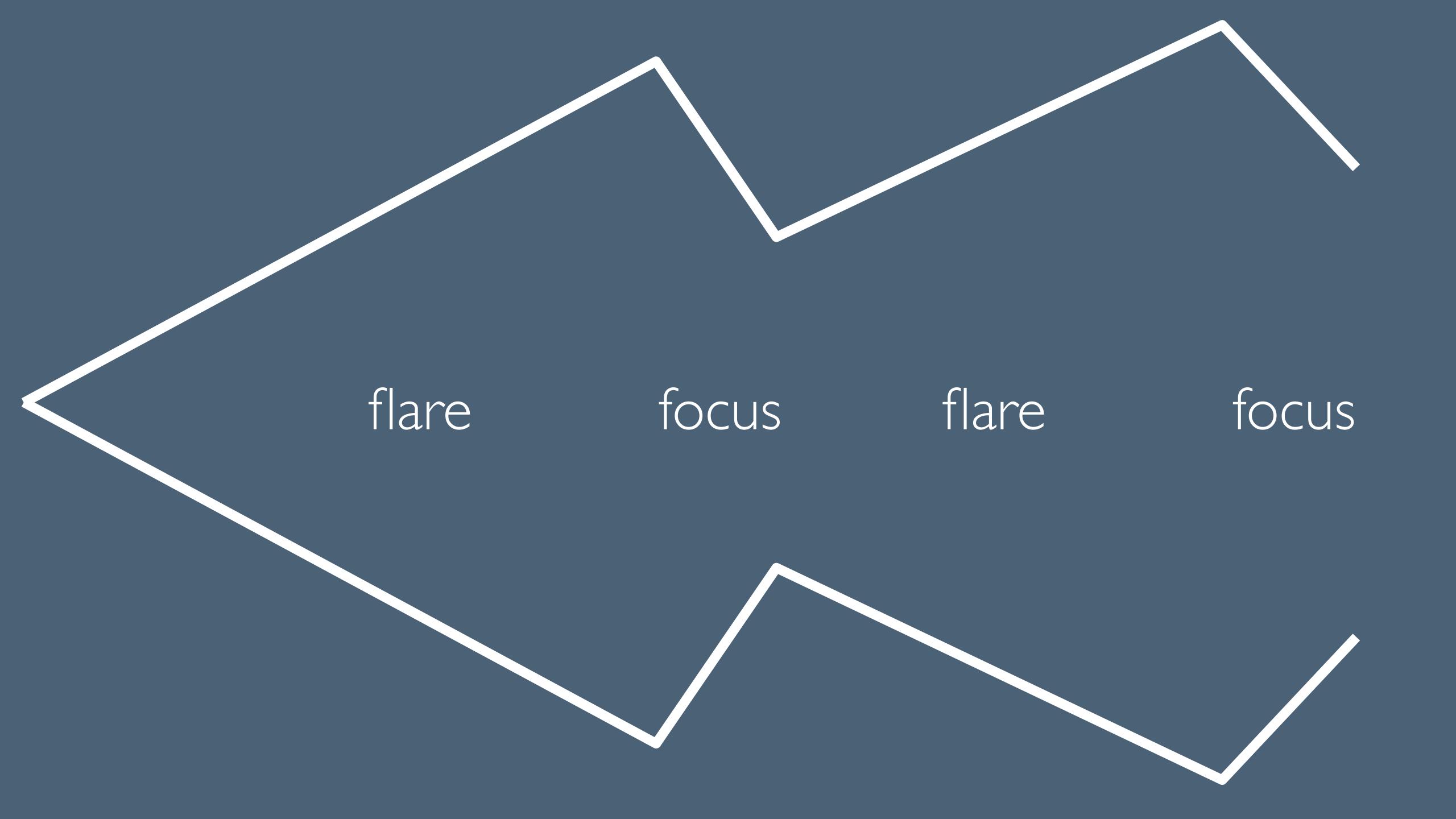
 They are right, but boring. These ideas often become the targets of design fixation.

Dark horse prototyping

· Include one idea and prototype that is intentionally far out or nearly impossible. Sometimes, it wins.

 Even when it doesn't win, it helps prevent design fixation.

You will be doing this in P3



P3: Prototyping

- · Goal: fluency with ideation and prototyping
 - · Picking the right elements to prototype
 - · Ideating and iterating rapidly across multiple prototypes
- Out today
 - · Form a team with at most one other person from your P2 team