AUTOMATING DESIGN REVIEW WITH VISUAL REGRESSION

WHO ARE YOU?
CALLUM SILCOCK
FRONT END DEVELOPER @ ~~WEBANYTIME~~ HOPIN.TO
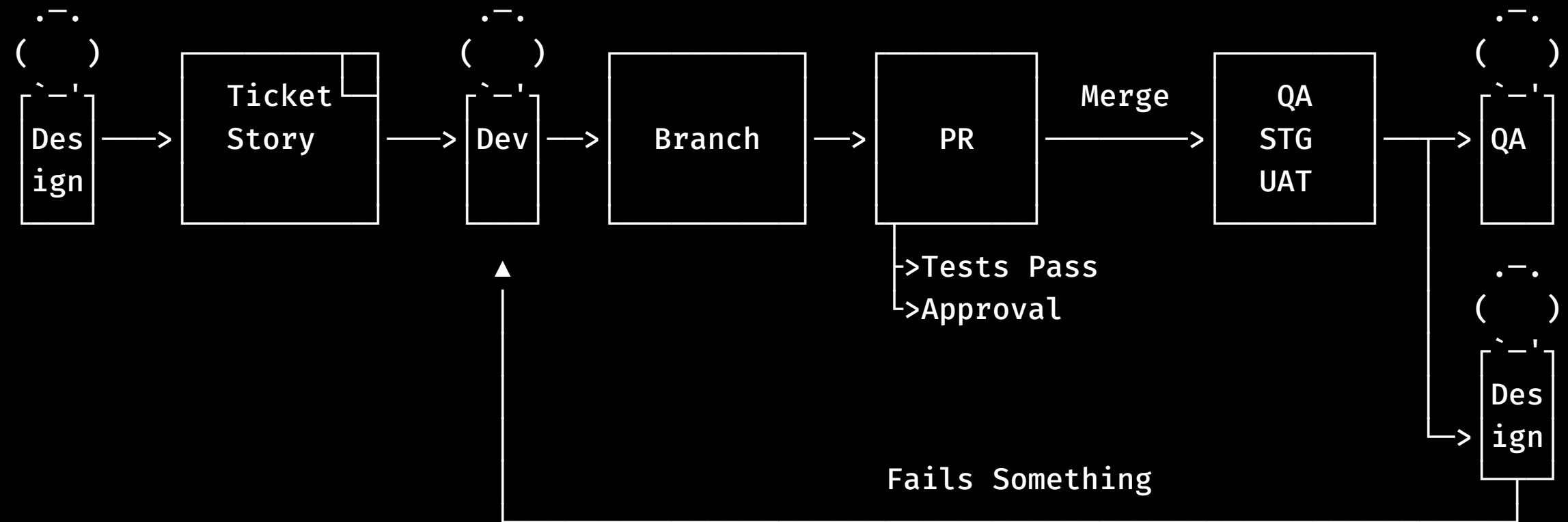## HTTPS://CSI.LK || GITHUB.COM/CSI-LK

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"dartah" = data
"rehpo" = repo

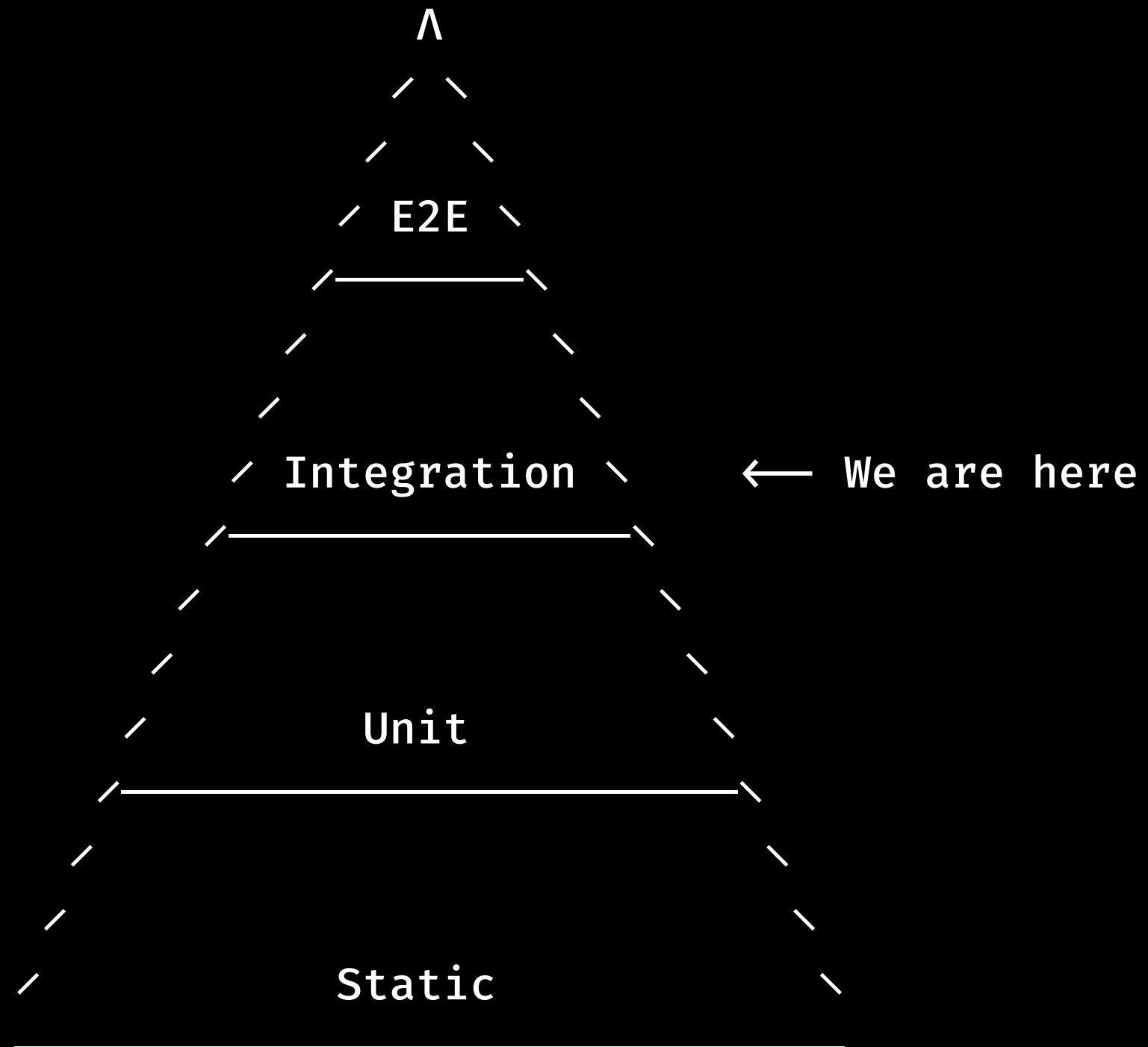# WHAT ARE WE TRYING TO SOLVE?

- CSS Sucks [insert family guy blinds gif here]

- Manual regression sucks

- UAT sucks

Design → Ticket Story → Dev → Branch → PR → Merge → QA STG UAT → QA

PR:
  →Tests Pass
  →Approval

QA STG UAT → Design

Fails Something

SO WHAT IS VISUAL REGRESSION TESTING?

- Screenshot diffing

- Gold (master) vs new (feature branch)

- Expose unintended changes
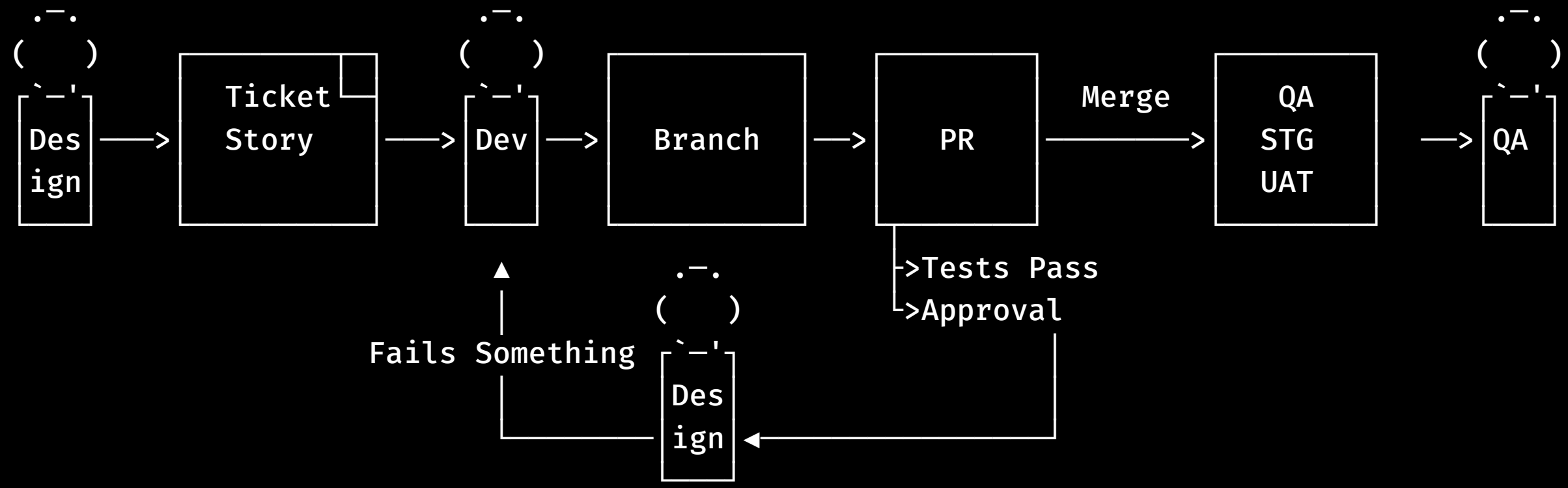
- Give us a review process for the visual

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                  ╱   ╲
                 ╱ E2E ╲
                ╱───────╲
               ╱         ╲
              ╱           ╲
             ╱ Integration ╲   ←── We are here
            ╱───────────────╲
           ╱                 ╲
          ╱       Unit        ╲
         ╱───────────────────╲
        ╱                     ╲
       ╱       Static          ╲
      ───────────────────────────
```

EXAMPLES

- Companion Repo - https://github.com/csi-lk/visual-regression-how-to/

- Percy.io (Interface Example)

  - Ready made examples, easy setup

  - Supports parallelisation

- Happo.io (Interface Example)

  - Supports all browsers

  - Founder (Henric) is awesome

EXAMPLE - STORYBOOK COMPONENTS

- Storybook

- HTML Components

- <u>Example PR with review step</u>

- Pairs well with a design system or component library

EXAMPLE - RESPONSIVE WEBSITE

- Eg. Jekyll, Gatsby etc.

- Build out to HTML files

- Breakpoints is where things go wrong

- Example PR with review step

- Pairs well with full page designs

Design ──→ Ticket Story ──→ Dev ──→ Branch ──→ PR ──Merge──→ QA STG UAT ──→ QA

PR ─>Tests Pass
─>Approval

Fails Something

Design

PROS

- Reduce manual QA time

- Include designers in the process

- Reduce the feedback loop

- Get it right once

CONS

- Extra step in a PR

- Extra tool to manage

- Train designers on PR process

- Takes time to run

THANKS

GITHUB.COM/CSI-LK/VISUAL-REGRESSION-HOW-TO

❤️ CALLUM SILCOCK