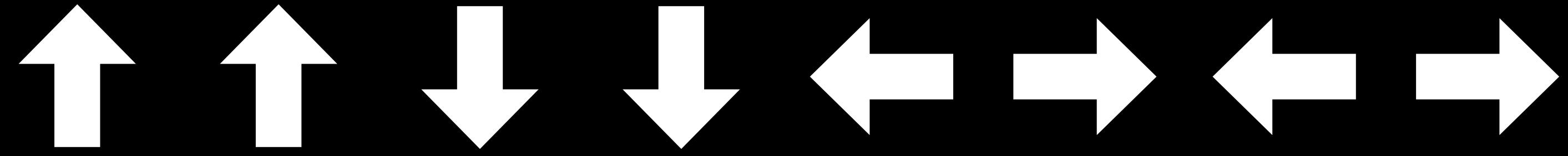




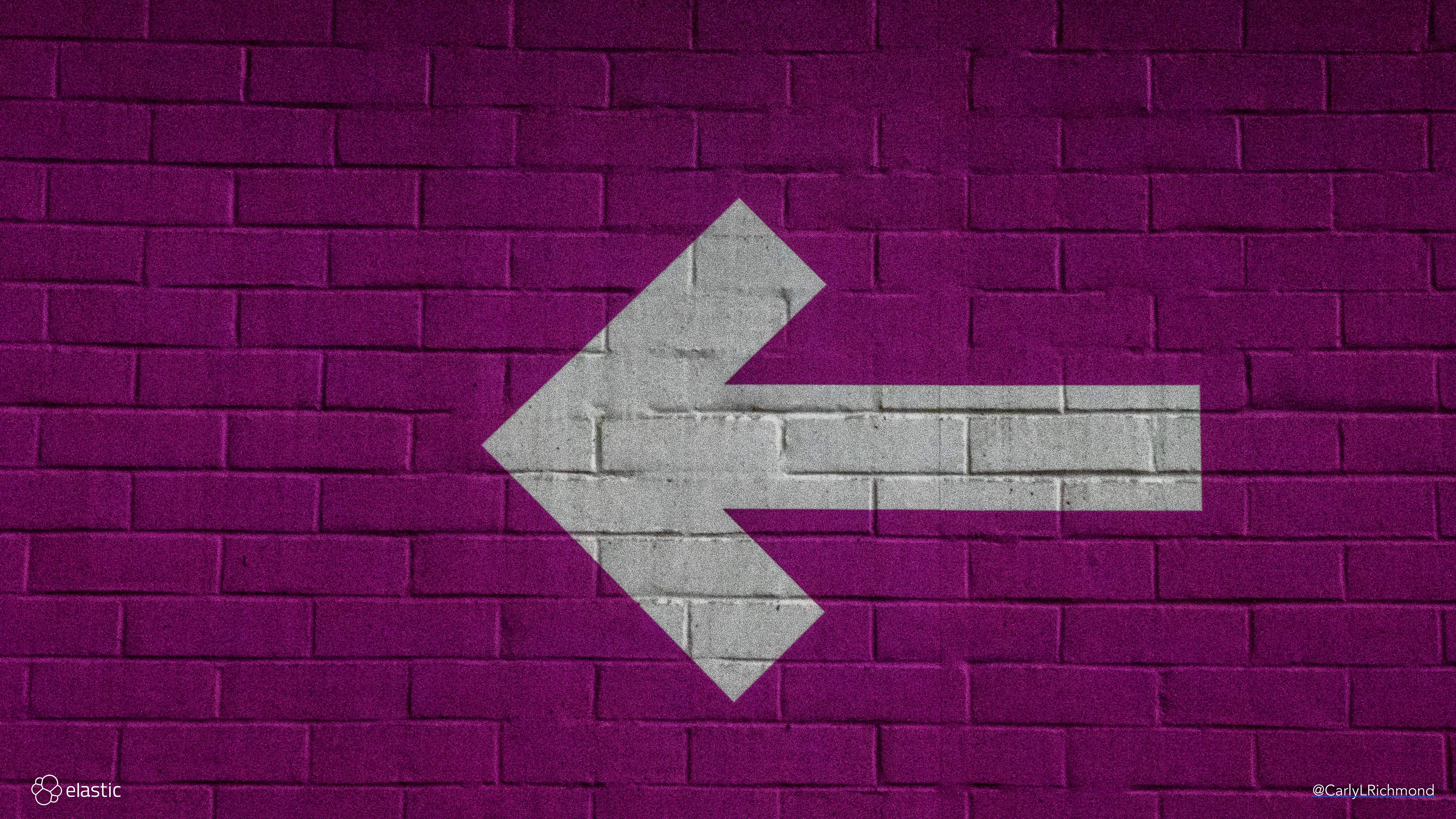
# CTRL > SHIFT > LEFT > RIGHT

## JOINING DEV AND SUPPORT FORCES TOGETHER USING E2E TESTING AND SYNTHETIC MONITORING

CARLY RICHMOND



KONAMI CODE





DON'T  
^  
WIFIE FEAR YOU.







e2e Testing



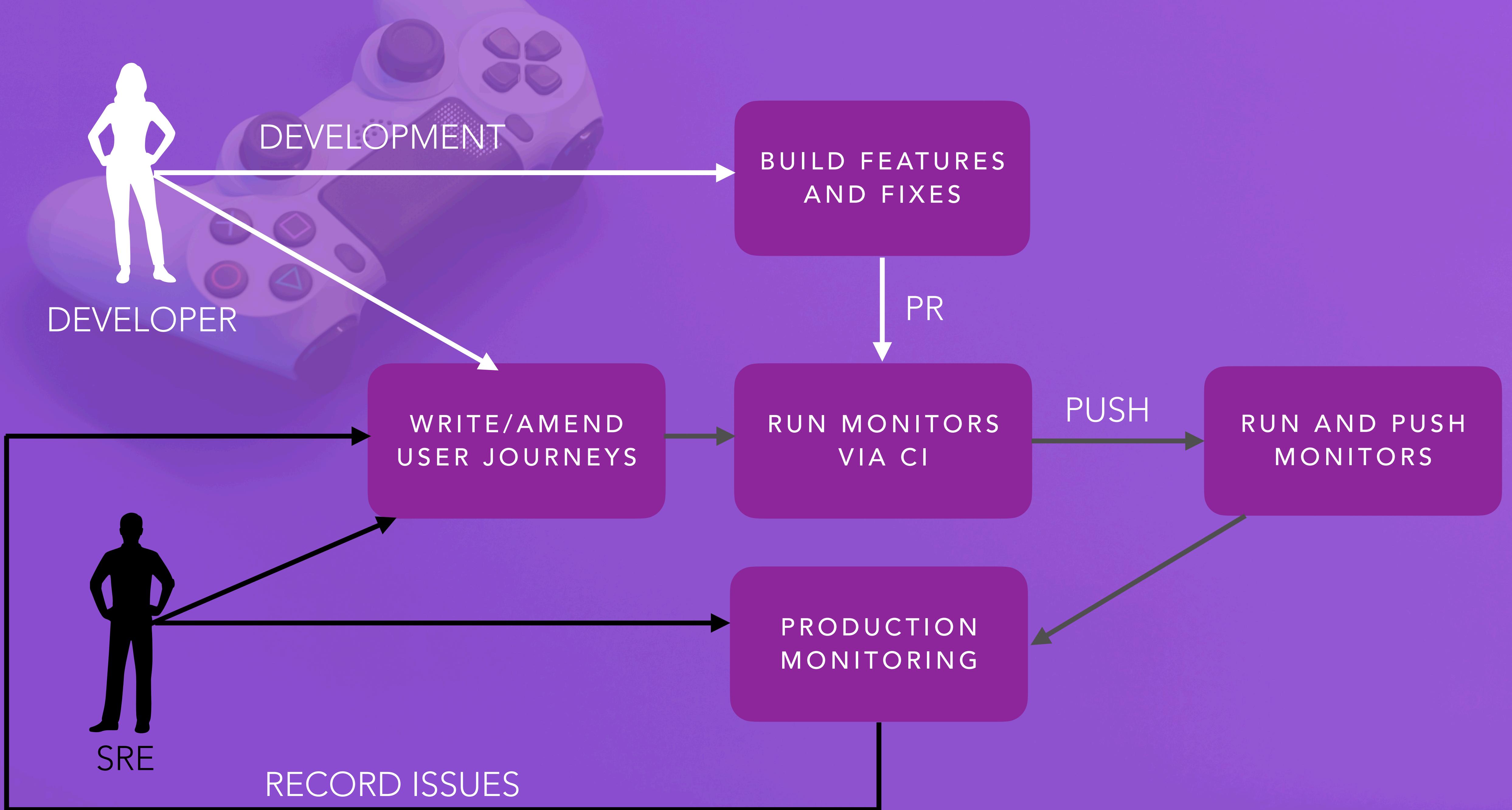
Synthetic  
Monitoring

# Synthetic Monitoring



<https://ela.st/synthetics-replicator>

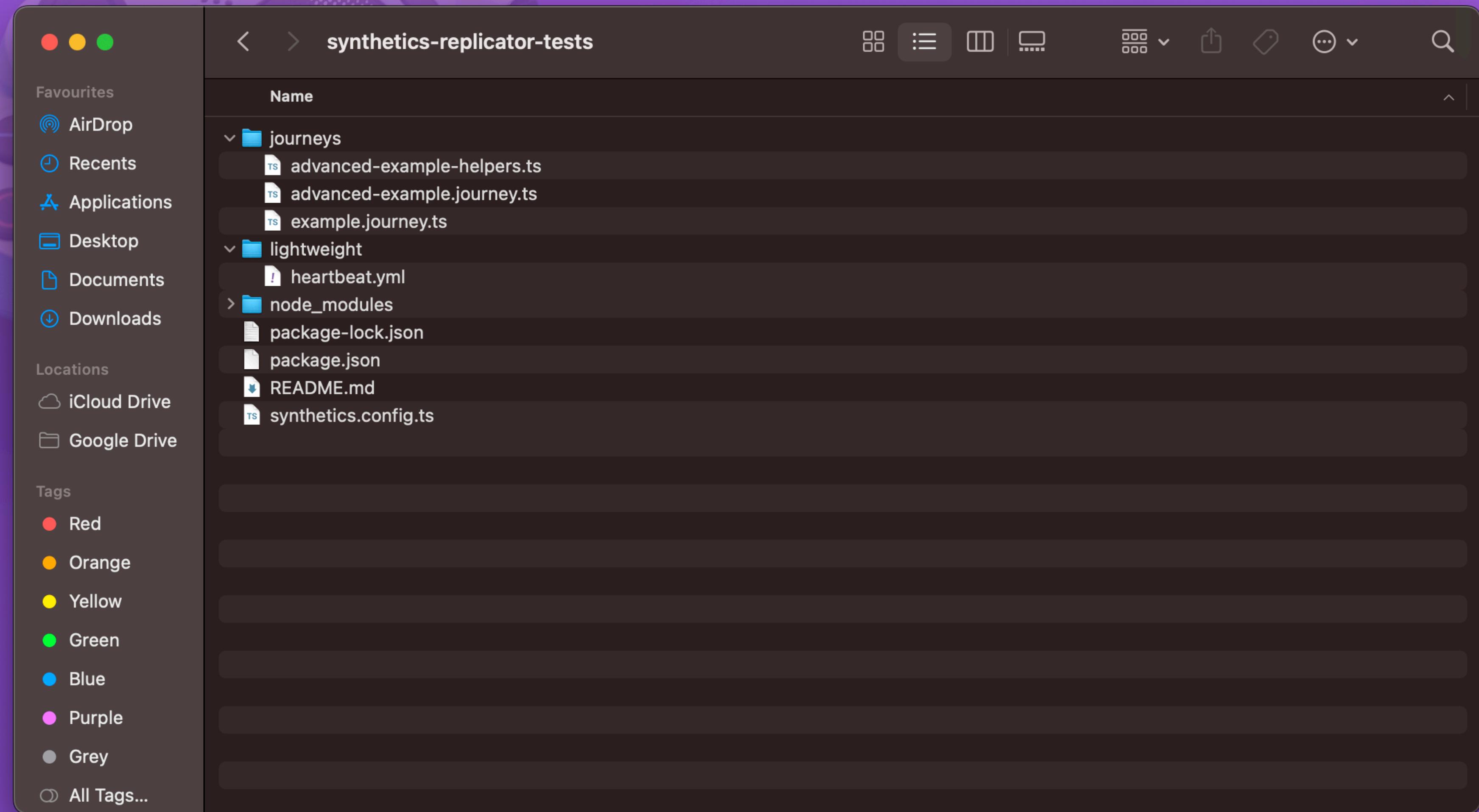






## synthetics-replicator - -zsh

```
> npm install -g @elastic/synthetics
> npx @elastic/synthetics -h
> npx @elastic/synthetics init synthetics-replicator-
test
```





## synthetics.config.ts

```
1 import type { SyntheticsConfig } from '@elastic/synthetics';
2
3 export default env => {
4   const config: SyntheticsConfig = {
5     params: {
6       url: 'http://localhost:5173',
7     },
8     playwrightOptions: {
9       ignoreHTTPSErrors: false,
10    },
11   /**
12    * Configure global monitor settings
13   */
14   monitor: {
15     schedule: 10,
16     locations: ['united_kingdom'],
17     privateLocations: [''],
18   },
19   /**
20    * Project monitors settings
21   */
22   project: {
23     id: 'synthetics-replicator-tests',
24     url: 'https://my-elastic-deployment:port',
25     space: 'default',
26   },
27 };
28 if (env === 'production') {
29   config.params = { url: 'https://synthetics-replicator.app/' }
30 }
31 return config;
32 };
33
```





orders.journey.ts

```
1 import { journey, step, monitor, expect, before } from '@elastic/synthetics';
2
3 journey('Replicator Order Journey', ({ page, params }) => {
4   // Only relevant for the push command to create
5   // monitors in Kibana
6   monitor.use({
7     id: 'synthetics-replicator-monitor',
8     schedule: 10,
9   });
10
11 before(async ()=> {
12   await page.goto(params.url);
13 });
14
15 step('assert home page loads', async () => {
16   const header = await page.locator('h1');
17   expect(await header.textContent()).toBe('Replicatr');
18 });
19
20 step('assert move to order page', async () => {
21   const orderButton = await page.getByTestId('order-button');
22   await orderButton.click();
23
24   const url = page.url();
25   expect(url).toContain('/order');
26
27   const menuTiles = await page.getByTestId('menu-item-card');
28   expect(await menuTiles.count()).toBeGreaterThan(2);
29 });
30
31 step('assert adding to order', async () => {
32   const addItemButtons = await page.getByTestId('add-item-button');
33   expect(await addItemButtons.count()).toBeGreaterThan(10);
34
35   const cartCount = await page.getByTestId('cart-count-label');
36   expect(await cartCount.innerText()).toBe('0');
37
38   await addItemButtons.first().click();
39   expect(await cartCount.innerText()).toBe('1');
40
41   await addItemButtons.nth(4).click();
42   await addItemButtons.last().click();
43   expect(await cartCount.innerText()).toBe('3');
44 });
45 });
```





synthetics-replicator — zsh — 99x27

```
carly.richmond@Carlys-MBP synthetics-replicator % npm run test
```

```
> synthetics-replicator@0.0.0 test
> cd apps/synthetics-replicator-tests && npm run test
```

```
> synthetics-replicator-tests@1.0.0 test
> npx @elastic/synthetics journeys
```

#### Journey: Replicator Order Journey

- ✓ Step: 'launch application' succeeded (2030 ms)
- ✓ Step: 'assert home page loads' succeeded (48 ms)
- ✓ Step: 'assert move to order page' succeeded (132 ms)
- ✓ Step: 'assert adding to order' succeeded (150 ms)

#### Journey: Recorded Order journey

- ✓ Step: 'Go to order items page' succeeded (1752 ms)
- ✓ Step: 'Add item to cart successfully' succeeded (99 ms)
- ✓ Step: 'Add 2nd item to cart successfully' succeeded (66 ms)
- ✓ Step: 'Add 3rd item to cart successfully' succeeded (67 ms)

```
8 passed (5388 ms)
```

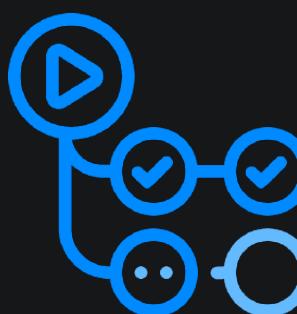
```
carly.richmond@Carlys-MBP synthetics-replicator %
```





## push-build-test-synthetics-replicator.yml

```
1 name: Push Workflow- Elastic Synthetics With Svelte Replicator
2 on:
3   push:
4     branches: [main, master]
5   jobs:
6     test:
7       env:
8         NODE_ENV: development
9       runs-on: ubuntu-latest
10      steps:
11        - uses: actions/checkout@v3
12        - uses: actions/setup-node@v3
13          with:
14            node-version: 18
15        - run: npm install
16        - run: npm start &
17        - run: "npm install @elastic/synthetics && SYNTETICS_JUNIT_FILE='junit-synthetics.xml'
18          npx @elastic/synthetics . --reporter=junit"
19          working-directory: ./apps/synthetics-replicator-tests/journeys
20        - name: Publish Unit Test Results
21          uses: EnricoMi/publish-unit-test-result-action@v2
22          if: always()
23          with:
24            junit_files: '**/junit-*.xml'
25            check_name: Elastic Synthetics Tests
26      push:
27        env:
28          NODE_ENV: production
29          SYNTETICS_API_KEY: ${{ secrets.SYNTETICS_API_KEY }}
30      needs: test
31      defaults:
32        run:
33          working-directory: ./apps/synthetics-replicator-tests
34        runs-on: ubuntu-latest
35      steps:
36        - uses: actions/checkout@v3
37        - uses: actions/setup-node@v3
38          with:
39            node-version: 18
40        - run: npm install
41        - run: npm run push
```



## Observability

Overview

Alerts

Cases

Logs

Stream

Anomalies

Categories

Infrastructure

Inventory

Metrics Explorer

Hosts

APM

Services

Traces

Dependencies

Uptime

Uptime Monitors

TLS Certificates

 Synthetics BETA

# Monitors BETA

Create Monitor

Refresh

[Overview](#) [Management](#)

Search by name, url, host, tag, project or location

Up Down Disabled

Type

2

▼

Location

1

▼

Tags

0

▼

Frequency

2

▼

Project

1

▼

## Current status

3 Up    0 Down    0 Disabled

## Last 6 hours

0 Errors

## Last 12 hours

1 Alerts

Showing 3 Monitors

Sort by Status ▼ Group by None ▼

## Recorded Order journey

Europe - United Kingdom

 Duration Avg.  
**3 s**

## Replicator HTTP ping

Europe - United Kingdom

 Duration Avg.  
**129 ms**

## Replicator Order Journey

Europe - United Kingdom

 Duration Avg.  
**3 s**

Showing all monitors

@CarlyLRichmond

 **Observability**

Overview

Alerts

Cases

**Logs**

Stream

Anomalies

Categories

**Infrastructure**

Inventory

Metrics Explorer

Hosts **APM**

Services

Traces

Dependencies

**Uptime**

Uptime Monitors

TLS Certificates

 **Synthetics** BETA

&lt; Recorded Order journey

# Test run details

**Location**

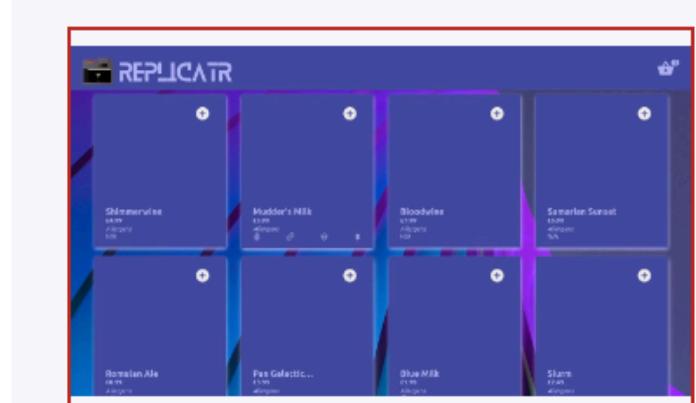
Europe - Unit

 **Error running test**

error executing step: expect(received).toMatch(expected) Expected substring: "2" Received string: "3"

**Step 4 of 4**

&lt; Previous 4 / 4 Next &gt;

**Step name**

Add 3rd item to cart successfully

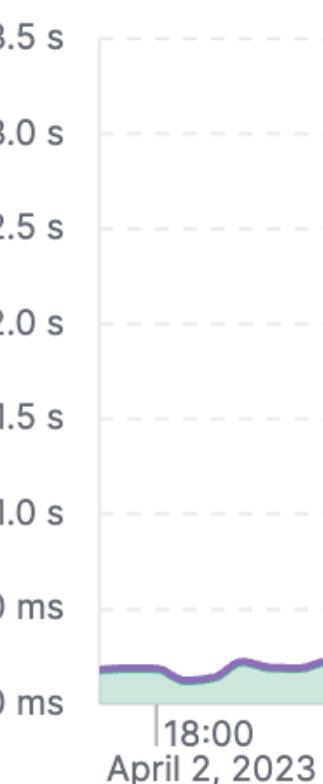
Failed After 267 ms [View error details](#) [View performance breakdown](#)[Stacktrace](#) [Code executed](#) [Console](#)

Error: expect(received).toMatch(expected)

Expected substring: "2"

Received string: "3"

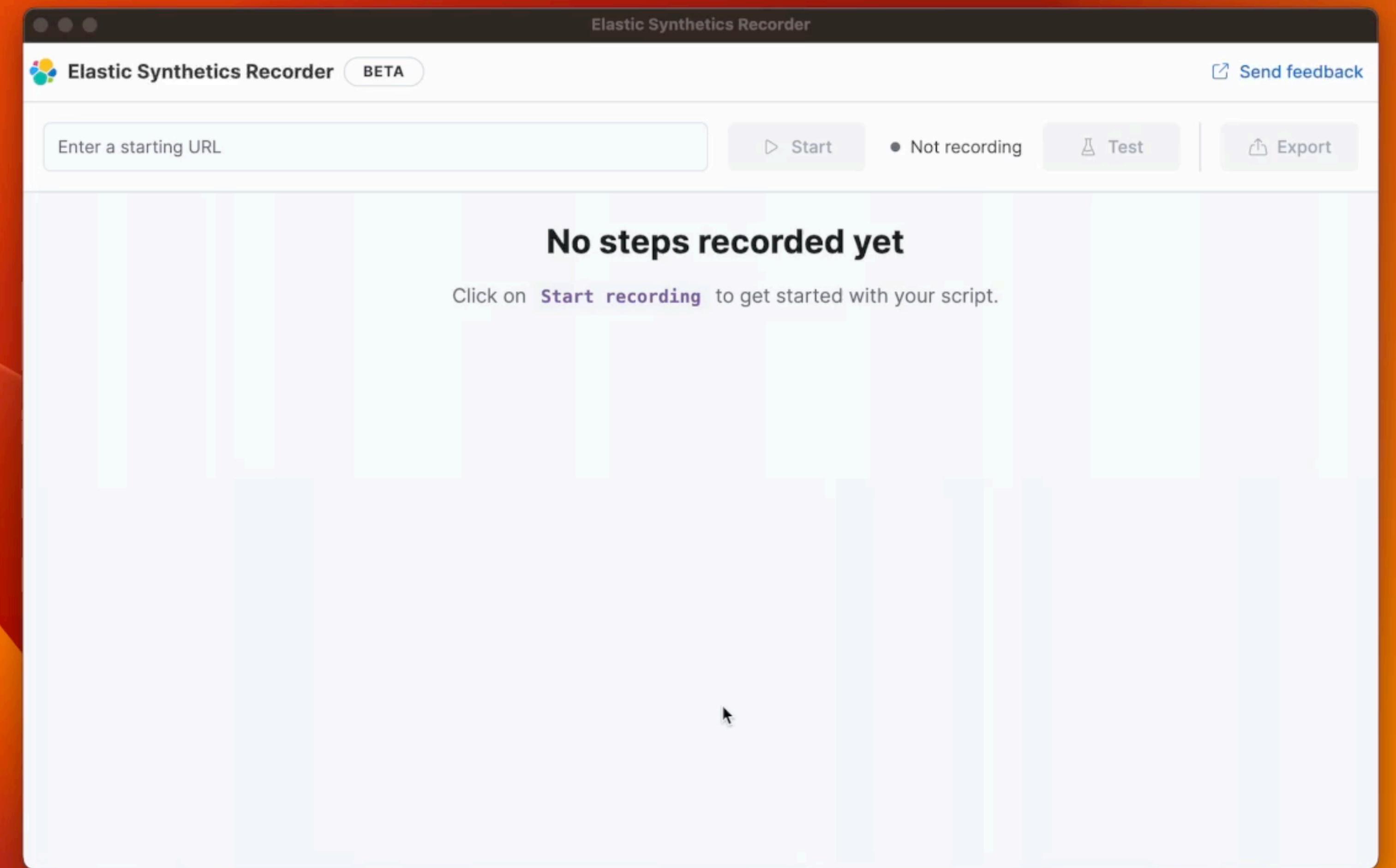
```
at Step.callback (/tmp/elastic-synthetics-unzip-384981578/journeys/journeys/orders-generated.journey.ts:33:72)
at Runner.runStep (/usr/share/heartbeat/.node/node/lib/node_modules/@elastic/synthetics/src/core/runner.ts:211:7)
at Runner.runSteps (/usr/share/heartbeat/.node/node/lib/node_modules/@elastic/synthetics/src/core/runner.ts:261:16)
at Runner.runJourney (/usr/share/heartbeat/.node/node/lib/node_modules/@elastic/synthetics/src/core/runner.ts:351:27)
at Runner.run (/usr/share/heartbeat/.node/node/lib/node_modules/@elastic/synthetics/src/core/runner.ts:445:11)
at Command.<anonymous> (/usr/share/heartbeat/.node/node/lib/node_modules/@elastic/synthetics/src/cli.ts:133:23)
```

**Duration by step** Add 2nd item to cart successfully Add item to cart

@CarlyLRichmond



HELP!



Do it together  
Never alone

CHEERS