

PREPARED FOR:



Looking to Test Decoupled Sites?

Get Ready to Be Impressed with Cypress!

Your Presenters



Jonathan Daggerhart

Lead Architect
Daggerhart Lab



Mark Shropshire

Sr. Director of Development
Mediacurrent

Agenda

01 What's Cypress?

02 Why Cypress?

03 Live Demos!

04 Q&A

01

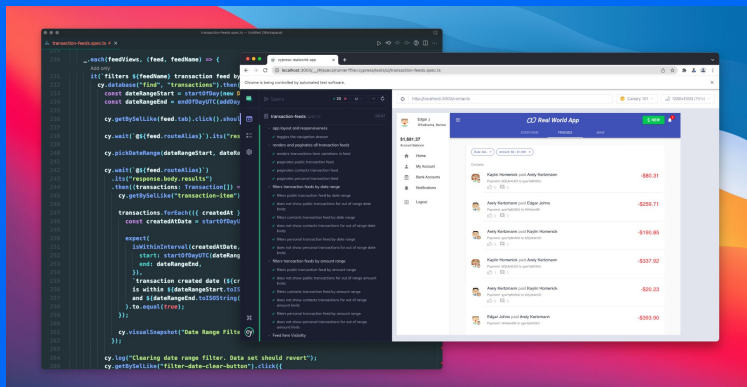
What's Cypress?

“Fast, easy and reliable testing for anything that runs in a browser.”

- Open Source + optional SaaS products
- Fast End-to-end testing solution for browsers
- All-in-one solution
- For any frontend framework
- Includes modern testing features you expect and more
- Designed for developer and QA teams
- Not Selenium-based
- All tests written in JavaScript



Features



- Time Travel
- Debuggability
- Automatic Waiting
- Spies, Stubs, and Clocks
- Network Traffic Control
- Consistent Results
- Screenshots and Videos
- Cross browser Testing

02

Why Cypress?

Open Source + SaaS



Easy Installation - Just Works



```
$ npm install cypress
```

Excellent Documentation

The screenshot shows the Cypress documentation website. The left sidebar contains a navigation menu with the following items: Overview, Getting Started, End-to-End Testing (highlighted), Introduction to E2E Testing, Writing Your First E2E Test (highlighted), Testing Your App, Testing Strategies, Auth0 Authentication, Amazon Cognito Authentication, Okta Authentication, Google Authentication, Working with GraphQL, Migrating from Other Frameworks, Protractor to Cypress, Component Testing, Core Concepts, and Dashboard. The main content area is titled 'Writing Your First E2E Test' and features a section 'What you'll learn' with a list of topics: How to start testing a new project in Cypress, What passing and failing tests look like, and Testing web navigation, DOM querying, and writing assertions. Below this, there is a preview of a Cypress test file and its execution in a browser.

Writing Your First E2E Test

What you'll learn

- How to start testing a new project in Cypress.
- What passing and failing tests look like.
- Testing web navigation, DOM querying, and writing assertions.

The bottom section shows a code editor with a Cypress test file named `sample_spec.js` and a browser window displaying the test results. The code includes:

```
1 describe('My First Test', function() {
2   it('Gets, types and asserts', function() {
3     cy.visit('https://example.cypress.io')
4     cy.contains('type').click()
5     cy.url().should('include', '/commands/actions')
6     cy.get('input').type('fake@email.com')
7     cy.get('#submit').click()
8     cy.get('#form').should('have.css', 'color', 'red')
9   })
10 })
```

The browser window shows the Cypress test runner interface, including the test name 'My First Test', the test steps, and the test results. The test is marked as 'passed'.

Cypress App

The screenshot displays the Cypress test runner on the left and the application under test on the right.

Test Runner (Left):

- Tests:** 6 passed, 0 failed, 17.28s.
- Routes (9):**
 - BEFORE EACH
 - 1 TASK db:seed
 - 2 DATABASE filtering within users data
 - 3 LOGIN BY XSTATE Authenticating | Austen48
 - 4 WAIT @loginUser
 - (XHR) POST 200 /login loginUser
 - (NEW URL) http://localhost:3000/
 - (XHR) GET 200 /bankAccounts
 - (XHR) GET 200 /transactions/public publicTransactions
 - (XHR) GET 200 /notifications notifications
- TEST:**
 - 1 GET [data-test*=new-transaction]
 - 2 - CLICK
 - (NEW URL) http://localhost:3000/transaction/new
 - (XHR) GET 200 /users allUsers
 - 3 WAIT @allUsers
 - 4 GET [data-test*=user-list-item] 4
 - 5 - CONTAINS Delta
 - 6 - CLICK {force: true}
 - 7 GET [data-test*=amount-input]
 - 8 - TYPE 95
 - 9 GET [data-test*=description-input]
 - 10 - TYPE Fancy Hotel
 - 11 GET [data-test*=submit-request]
 - 12 - CLICK
 - (XHR) POST 200 /transactions createTransaction
 - 13 WAIT @createTransaction

Application (Right):

- Real World App** (http://localhost:3000/transaction/new)
- Progress:** 1 Select Contact, 2 Payment, 3 Complete
- Search:** [data-test=user-list-search-input] Search...
- Users List:**
 - Delta Littel
U: Madyson22 • E: Soledad.Boyle15@yahoo.com • P: 733-459-1151
 - Citlalli Herzog
U: Presley_Turner61 • E: Heloise.Medhurst@yahoo.com • P: 151-761-6860
 - Misael Hettinger
U: Gerald.Barton • E: Jackie.Tremblay@gmail.com • P: 515-196-8584
 - Ivory Christiansen
U: Ayana_Schmitt • E: Donnie.Heller53@yahoo.com • P: 508-422-4827
- Built by Cypress**

Cross-Browser Testing



03

Live Demos!

Demo Repos:

- <https://github.com/daggerhartlab/cypress-drupal>
- <https://github.com/mediacurrent/gatsby-drupal-rain>
- <https://bitbucket.org/mediacurrent/ci-tests/pull-requests/45>

Q&A

Thank you for attending our session! We are happy to continue the conversation during and following the camp.

Jonathan Daggerhart – Daggerhart Lab
@daggerhart

Mark Shropshire – Mediacurrent
@shrop
