

Testing — *beyond the* — DOM

@colbyfayock

Colby Fayock

Developer Advocate



@colbyfayock





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20 Lb

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Choc... ut Crunch - 6-
2.4 Oz

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Original - 6 Oz

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Hope Original
Hummus - 15 Oz

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\$6.99 / ea ~~\$11.99~~

ARM & HAMMER
Liquid... sh Jug - 150
Fl. Oz.

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\$5.49 /

> 

(\$0.23 /



Safeway Pharmacy Informed Consent/Screening Questionnaire

Tell us about yourself

First name	Daniel
Middle name	
Last name	Levy
Date of Birth	June ▼
Gender	☒ Male ☐ Female
	Day ▼ Year ▼

Your address

Address line 1	
----------------	----------------------

12:15
◀ Messages

AA safeway.medrefill.com

SAFeway

Safeway Pharmacy Informed
Consent/Screening Questionnaire

Tell us about yourself

First name

Daniel

Middle name

Last name

Levy

Date of Birth

June

Gender

☒ Male ☐ Female

Day

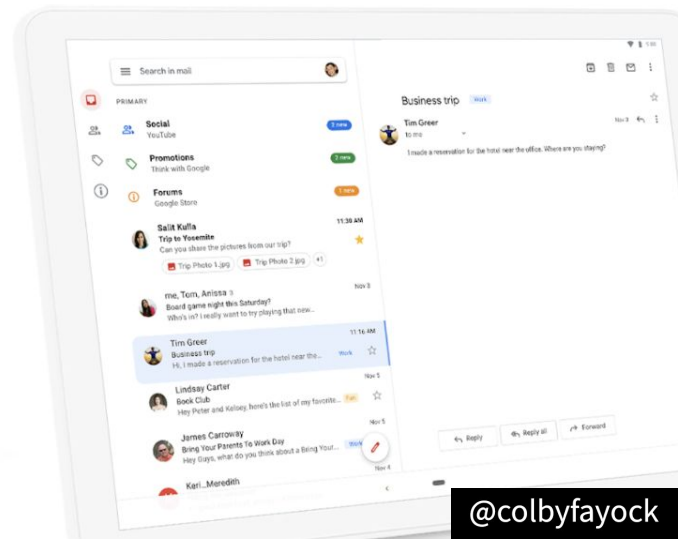
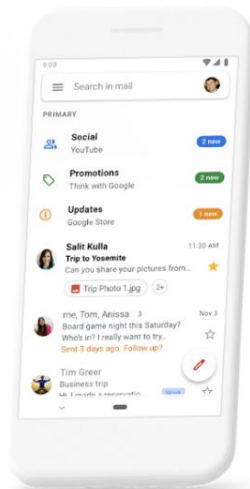
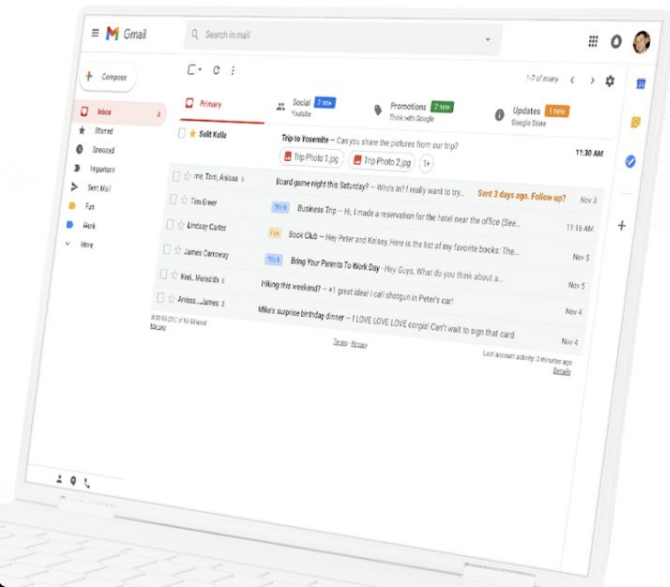
Year

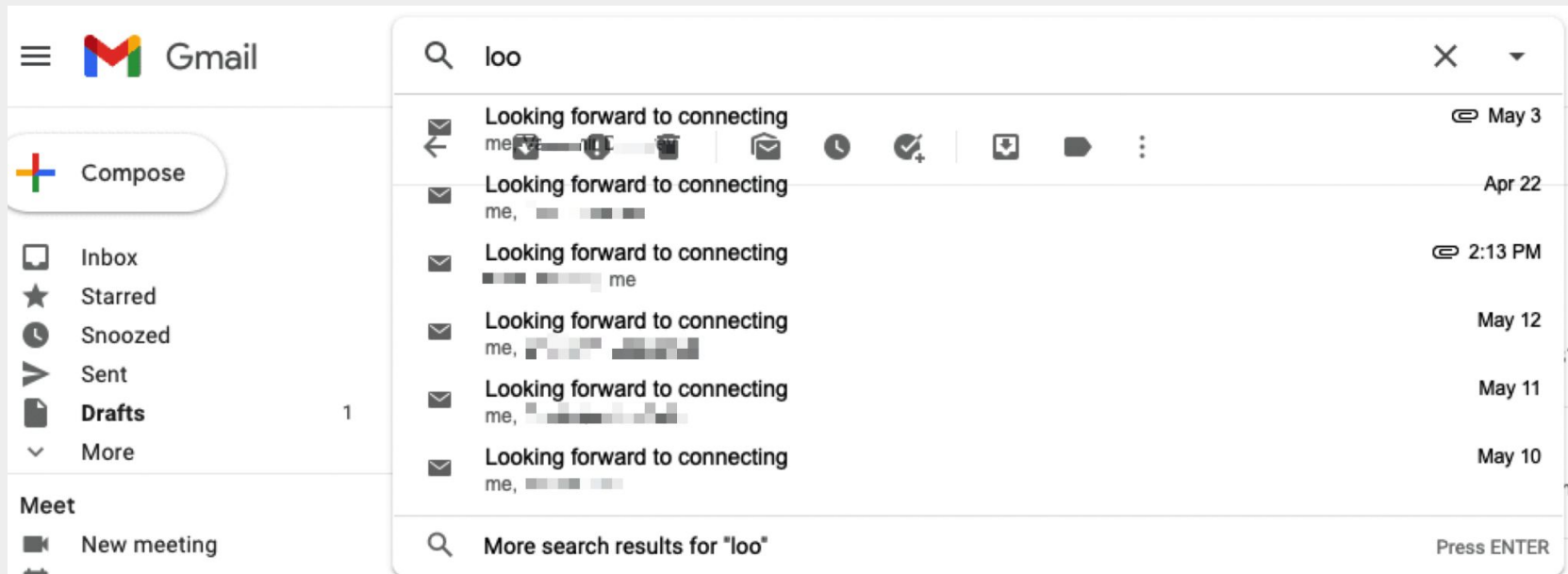
Your address

Address line 1

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INTRODUCING

All New Webex

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9:41 Mon Jun 3

100%

Barbara German's Personal Room



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Food



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Tools

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In Stock

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\$12.99 ✓prime

In Stock

1

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You could have earned \$225.19
in the last year with 5% back. Plus, get a
\$60 gift card upon approval.

Saved for later (20 items)

Bugs Happen

Why is testing hard?

Tests Require Lots of Code



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit

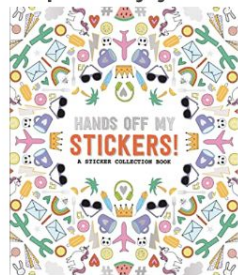


End to End

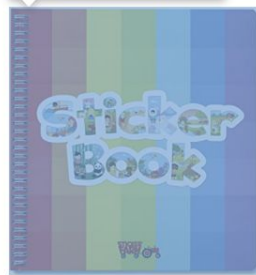
Tests Can Be Fragile



Inspired by your search history



img.product-image 188 x 200



```
<div class="a-section feed-carousel viewport">
  <ul class="a-unordered-list a-nostyle a-horizontal">
    ::before
    ><li data-sgproduct="{\"asin\":\"1523504803\"}" c
      role="listitem" aria-setsize="30" style="displ
    ><li data-sgproduct="{\"asin\":\"B08K7G2J38\"}" c
      role="listitem" aria-setsize="30" style="displ
    ><li data-sgproduct="{\"asin\":\"B01I0IT5AE\"}" c
      role="listitem" aria-setsize="30" style="displ
```

```
<span class="a-list-item">
```

```
><a class="a-link-normal" href="/Sticker-F
82-4fbc-9b06-25fe4f7fde87&pd_rd_wg=kDH20&rc
```

```

</span>
</li>
```

Cut element

Copy element

Paste element

Copy outerHTML

Copy selector

Copy JS path

Copy styles

Copy

Hide element

Force state

Break on

Expand recursively

Collapse children

Capture node screenshot

```
#feef4b56-5085-4c1b-b4cf-b750dd7d7993 > div.a-section.a-spacing-none.feed-carousel >
div > ul > li:nth-child(3) > span > a > img
```

```
max-width: 270px;
max-height: 200px;
vertical-align: middle;
```

@colbyfayock

“Tests Aren’t Features”





Testing Beyond the DOM

Testing Beyond the DOM

 cypress.io  applitools



Safeway Pharmacy Informed Consent/Screening Questionnaire

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COCTIONE Submersible Pump 400GPH
Fountain Water Pump for Aquariu...
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amazon Prime
You could have earned \$225.19
in the last year with 5% back. Plus, get a
\$60 gift card upon approval.

Saved for later (20 items)

Cypress



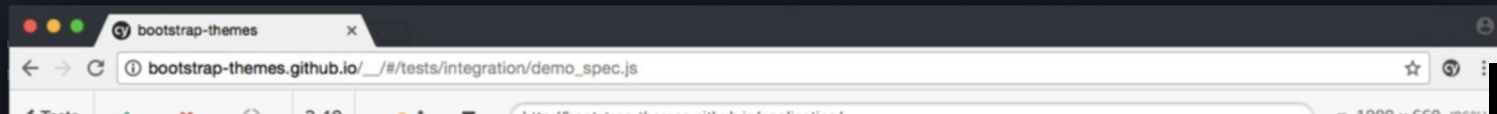
The web has evolved. Finally, testing has too.

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

```
$ npm install cypress
```

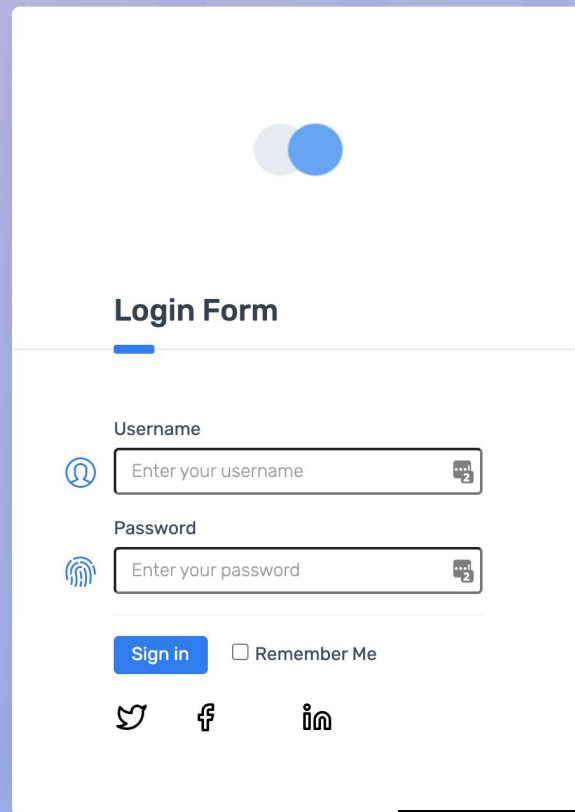
or [Download now](#) 

Install Cypress for Mac, Linux, or Windows, then [get started](#).



Cypress

```
describe("Login", () => {  
  it('should log into the application', () => {  
    cy.visit('https://demo.applitools.com/');  
    cy.get('#username').type('colbyfayock');  
    cy.get('#password').type('Password1234');  
    cy.get('#log-in').click();  
    cy.get('.element-header').contains('Financial');  
  });  
});
```



A screenshot of a login form on a website. At the top, there is a blue toggle switch. Below it, the title "Login Form" is displayed with a blue underline. The form contains two input fields: "Username" with a user icon and "Password" with a fingerprint icon. Both fields have placeholder text "Enter your username" and "Enter your password" respectively. Below the password field is a "Sign in" button and a "Remember Me" checkbox. At the bottom, there are three social media icons: Twitter, Facebook, and LinkedIn.

Cypress

```
describe("Login", () => {
  it('should log into t
    cy.visit('https://d
    cy.get('#username')
    cy.get('#password')
    cy.get('#log-in').c
    cy.get('.element-he
  });
});
```



Safeway Pharmacy Informed Consent/Screening Questionnaire

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First name	Daniel
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Last name	Levy
Date of Birth	June ▼
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Your address

Address line 1	

Login Form

☐

Username

Password

Sign in

☐ Remember Me

Twitter

Facebook

LinkedIn

Cypress

```
describe("Login", () => {
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Safeway Pharmacy Informed Consent/Screening Questionnaire

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Middle name	
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Date of Birth	June
Gender	☒ Male ☐ Female Date Year

Your address

Age	
Address line 1	

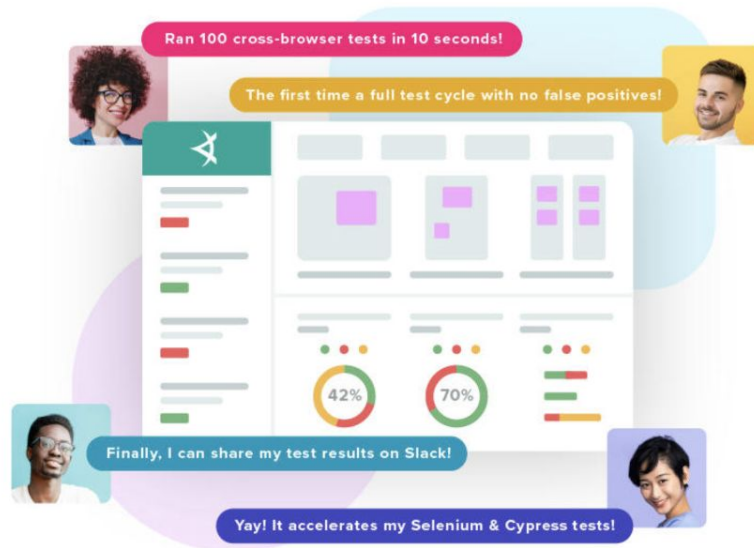
Login Form

Username	Enter your username
Password	Enter your password
Sign in ☐ Remember Me	
Twitter Facebook LinkedIn	

Applitools

Next generation test automation platform powered by Visual AI

Increase quality, accelerate delivery and reduce cost with the world's most intelligent test automation platform.

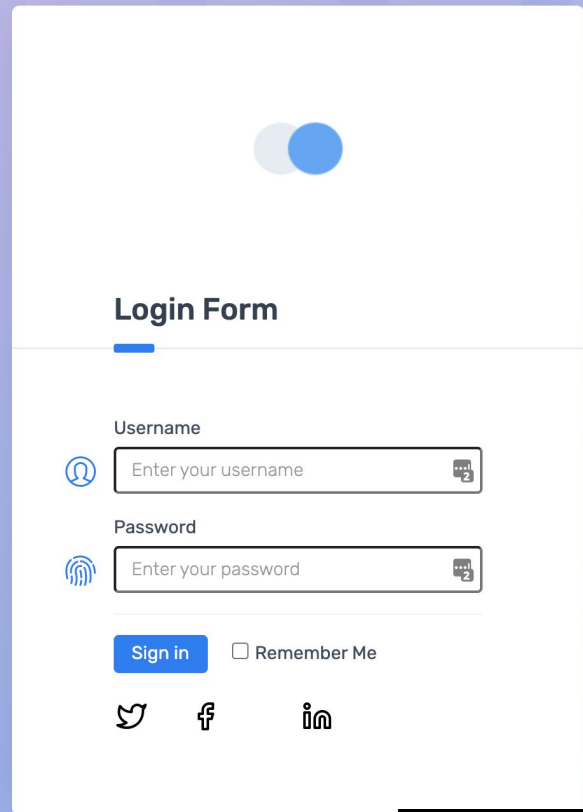
[GET STARTED](#)
[REQUEST A DEMO](#)


Announcing the Automation Cookbook – free bite-sized videos aimed to upskill developers and test engineers of all experience levels.

[Access the Cookbook](#)

Applitools

```
it('should log into the application', () => {  
  cy.visit('https://demo.applitools.com/');  
  cy.eyesOpen({ appName: 'Demo App' testName: 'D  
  cy.eyesCheckWindow('Login');  
  cy.get('#username').type('colbyfayock');  
  cy.get('#password').type('Password1234');  
  cy.get('#log-in').click();  
  cy.eyesCheckWindow('App');  
  cy.get('.element-header').contains('Financial  
  cy.eyesClose();  
});
```



A screenshot of a web application's login form. At the top, there is a blue toggle switch. Below it, the title "Login Form" is displayed with a blue underline. The form contains two input fields: "Username" with a user icon and "Password" with a fingerprint icon. Both fields have placeholder text "Enter your username" and "Enter your password" respectively. Below the password field, there is a "Sign in" button and a "Remember Me" checkbox. At the bottom, there are three social media icons: Twitter, Facebook, and LinkedIn.

Applitools

Test results 



Last 150 batch runs

Unresolved

Test results of batch: Login



Step 1/2: Login Window

Test: Login





















AUTO MAINTENANCE

Scope: Default 

ACCESSIBILITY





Baseline | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop





Login Form

Username



Password



Sign in

☐ Remember Me

Checkpoint | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop





Login Form

Username



Password



Log in

☐ Remember Me

100%



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Spot the Difference



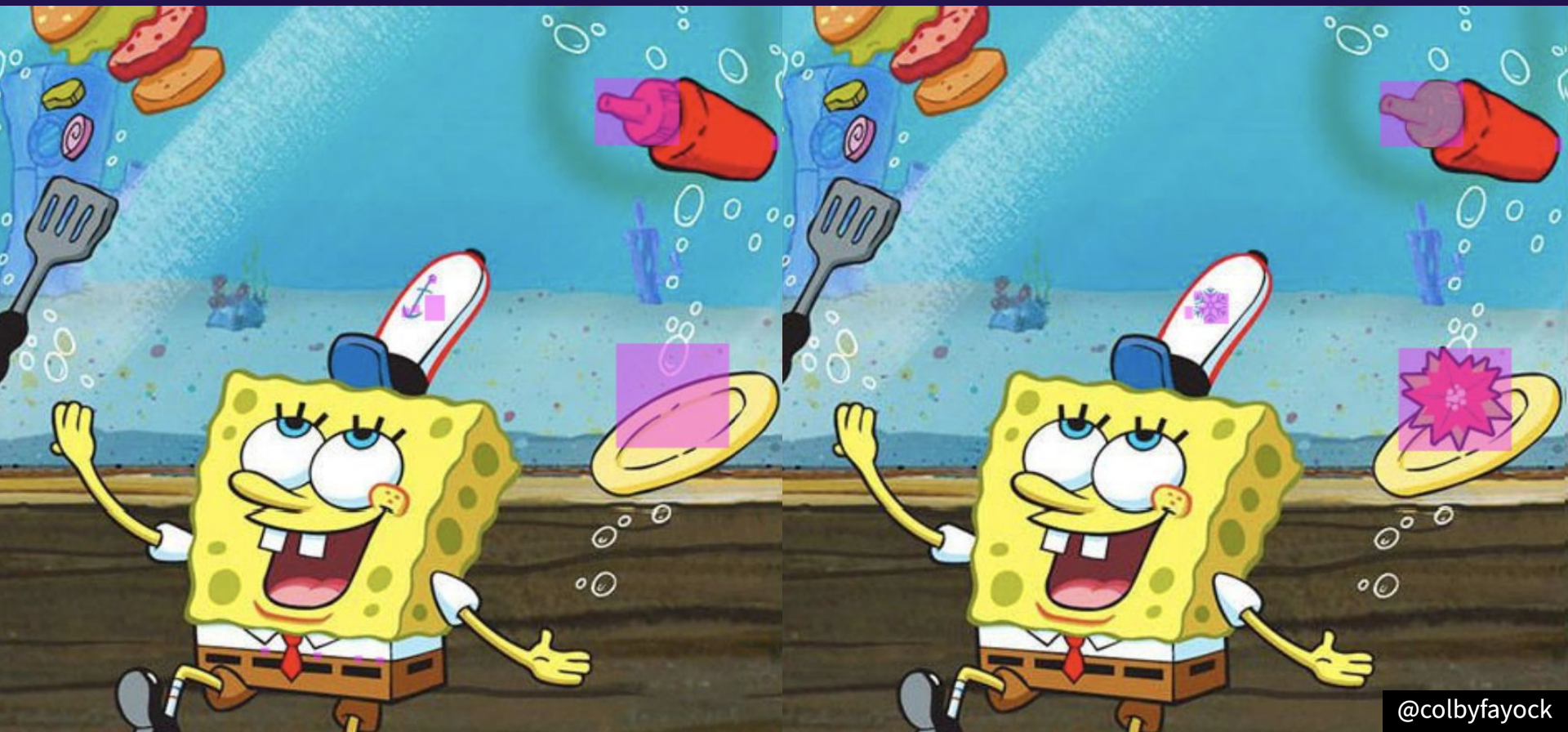
Pixel-by-Pixel (Not Applitools)



Appltools AI



Appltools AI



Applitools

Test results 



Last 150 batch runs

Unresolved

Test results of batch: Login



Step 1/2: Login Window

Test: Login





















AUTO MAINTENANCE

Scope: Default 

ACCESSIBILITY





Baseline | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop





Login Form

Username



Password



Sign in

☐ Remember Me

Checkpoint | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop





Login Form

Username



Password



Log in

☐ Remember Me

100%



@colbyfayock

Applitools

applitools eyes Test results Test results of batch: Login

Last 150 batch runs Unresolved

St Gmail

Compose

Inbox Starred Snoozed Sent Drafts 1 More

Meet New meeting

Search: loo

Looking forward to connecting me, May 3

Looking forward to connecting me, Apr 22

Looking forward to connecting me, 2:13 PM

Looking forward to connecting me, May 12

Looking forward to connecting me, May 11

Looking forward to connecting me, May 10

More search results for "loo" Press ENTER

Password Enter your password

Sign in Remember Me

Log in Remember Me

@colbyfayock

How does it work?

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WEB SDKs

Selenium
JavaScript

Selenium
Java

Selenium C#

Selenium
Ruby

Selenium PHP

Selenium
Python

WebdriverIO4

WebdriverIO5

New
WebdriverIO6

Selenium IDE

Cypress

New
Playwright

Testcafe

New
Storybook
CSF React

Storybook
React

Storybook
Angular

Storybook
Vue

Watir

Capybara

New
Protractor

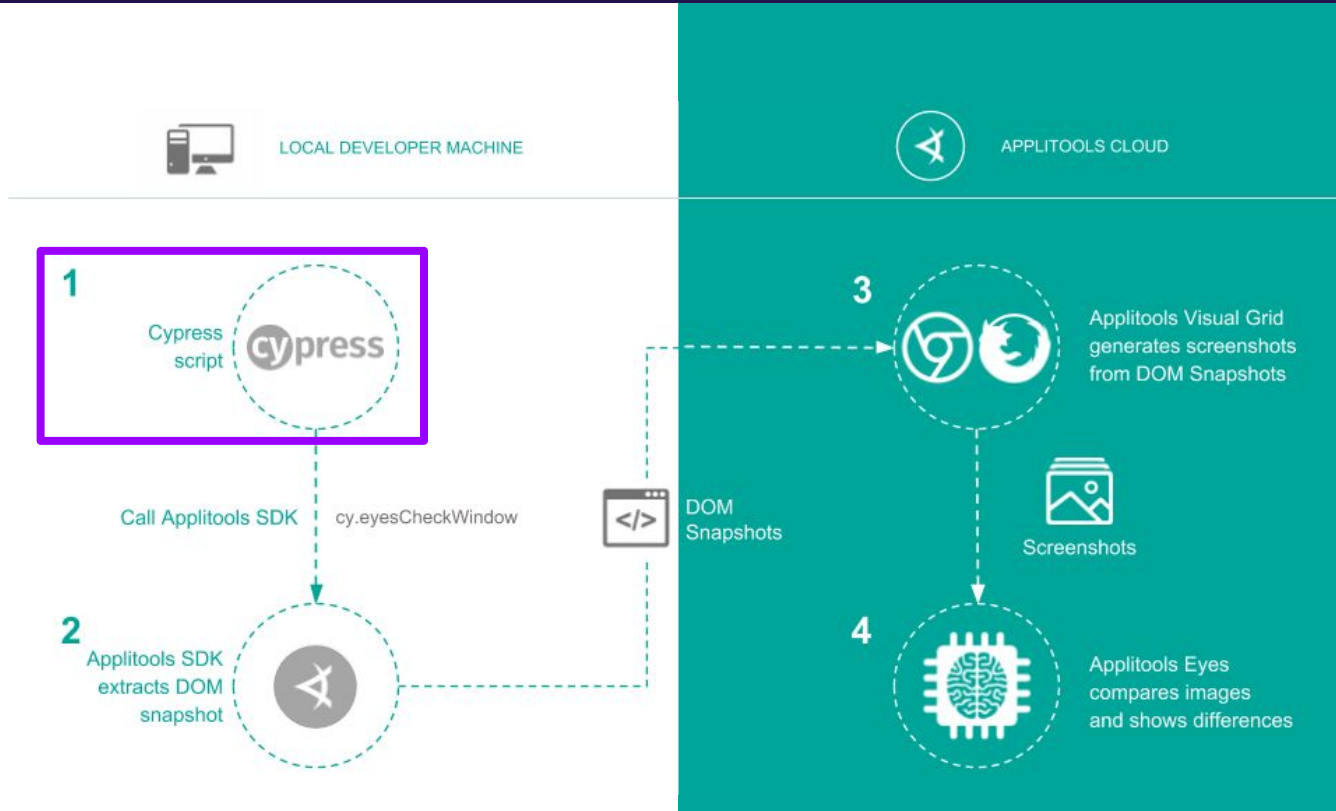
UFT/QTP

LeanFT C#

LeanFT
JavaScript

Coded UI

How Applitools Works



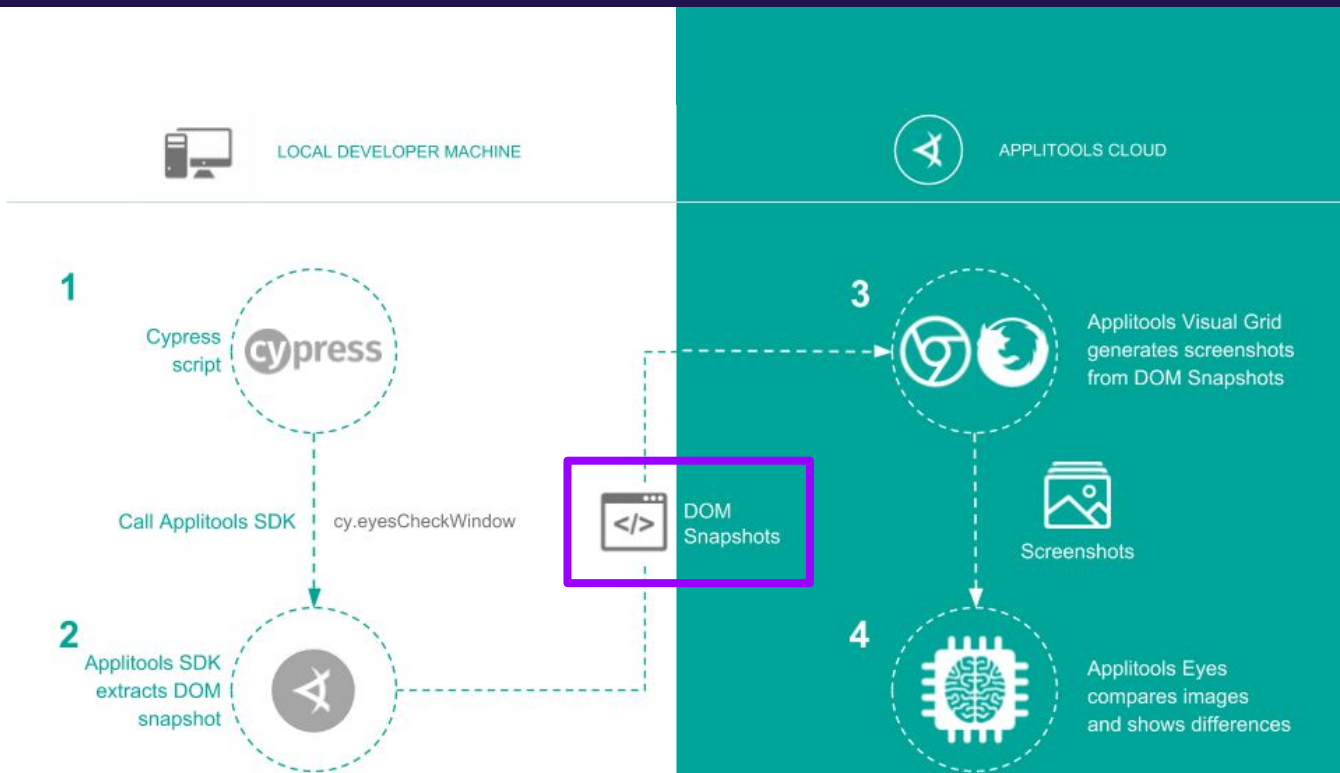
How Applitools Works



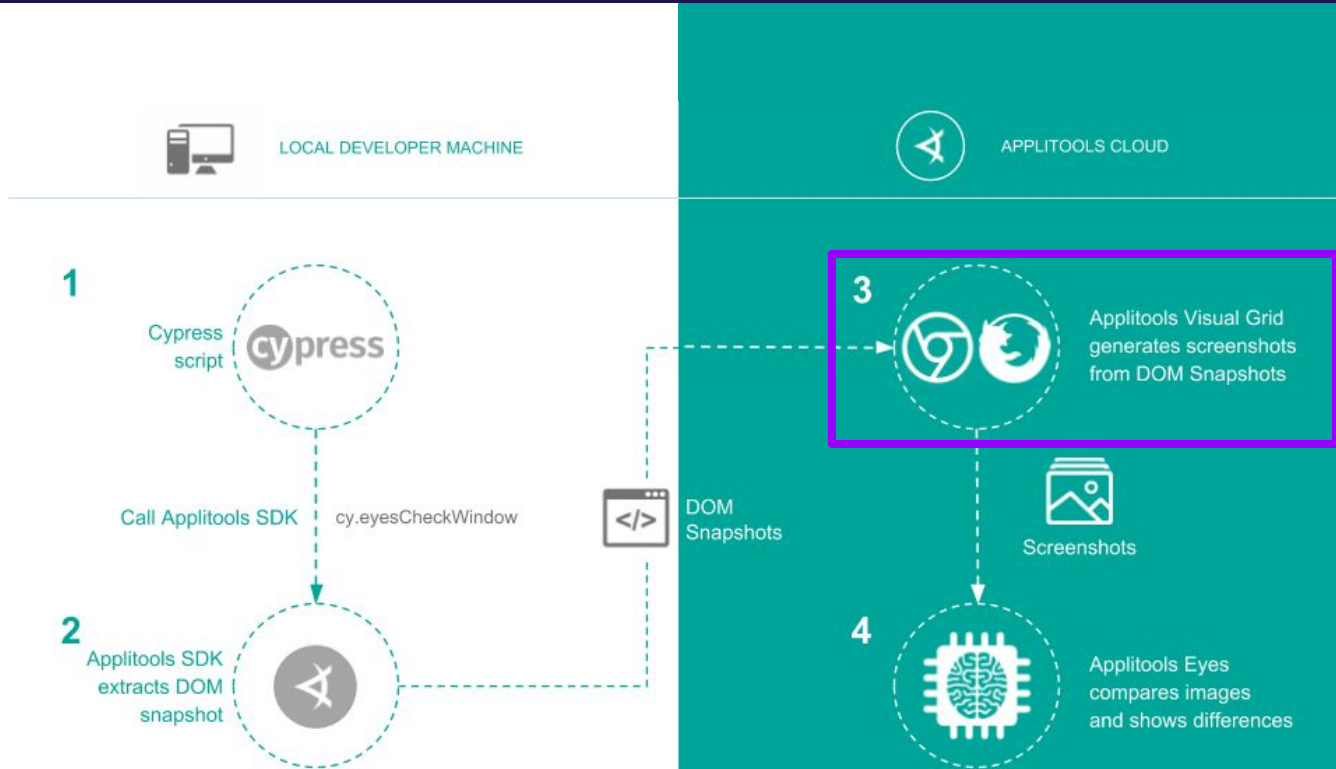
How Applitools Works



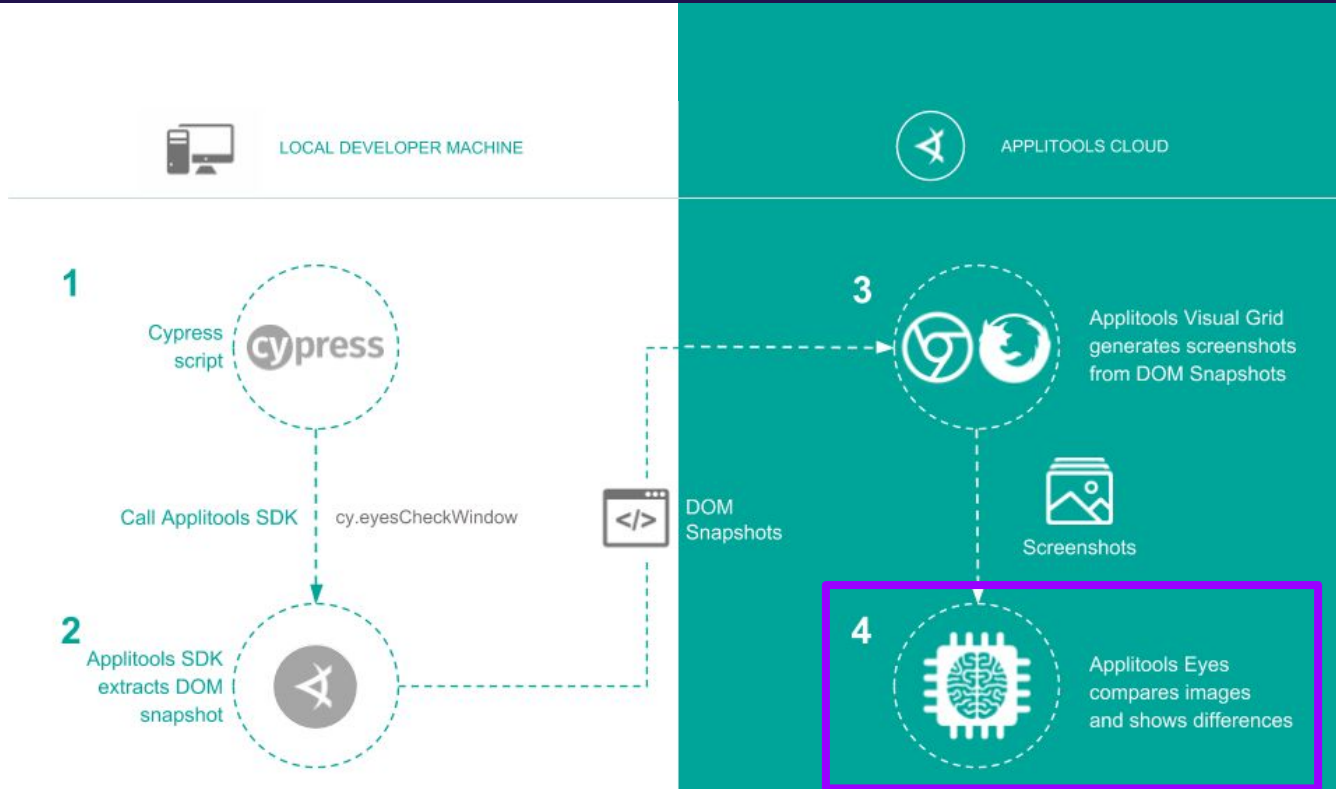
How Applitools Works



How Applitools Works



How Applitools Works



Cypress Integration

npm

Search packages

Search

Sign Up

Sign In

@applitools/eyes-cypress TS

3.21.0 • Public • Published 11 hours ago

Readme

Explore BETA

8 Dependencies

5 Dependents

162 Versions

Eyes-Cypress

Applitools Eyes SDK for **Cypress**.

Installation

Install npm package

Install Eyes-Cypress as a local dev dependency in your tested project:

```
npm i -D @applitools/eyes-cypress
```

Configure plugin and commands

Automatic configuration

Install

```
> npm i @applitools/eyes-cypress
```

Weekly Downloads

20,907



Version

3.21.0

License

SEE LICENSE IN L...

Unpacked Size

225 kB

Total Files

54

Issues

Pull Requests

@colbyfayock

Demo

Demo

Review Existing App

Run Cypress Tests

Install and set up AppliTools

Run tests!



Demo

- ✓ Review Existing App
- ✓ Run Cypress Tests
- ✓ Install and set up AppliTools
- ✓ Run tests!

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CSF React](#)[Storybook
React](#)[Storybook
Angular](#)[Storybook
Vue](#)[Watir](#)[Capybara](#)**New**[Protractor](#)[UFT/QTP](#)[LeanFT C#](#)[LeanFT
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Cypress Tutorial

Getting Started with Applitools

Want to learn more about the Applitools platform and how it works? First get started with one of the following:

- [How it Works](#)
- [Analyzing Differences](#)
- [Reporting Bugs](#)

Running Tests with Applitools

► Prerequisites

Running the Example Project

1. Clone

applitools.com/tutorials/cypress.html

```
git clone https://github.com/applitools/tutorial-cypress.git
```

@colbyfayock



Get started for free!

applitools.com

Colby Fayock

Developer Advocate



@colbyfayock



Thank You

colbyfayock.com/frontendtestfest