

Adding a

Second Pair of Eyes

with

Visual Testing

@colbyfayock

Colby Fayock

Developer Advocate



@colbyfayock





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Featured Items



\$3.00 / ea ~~\$3.99~~

Kettle Potato Chips...
haring Size - 8.5 Oz

(\$0.35 / Ounce) Sponsored



\$9.99 / ea ~~\$11.29~~

ARM & HAMMER Cat
Lit... Double Duty -
20 Lb

(\$0.50 / Pound) Sponsored



\$6.99 / ea

CLIF Energy Bar
Choc... ut Crunch - 6-
2.4 Oz

(\$0.49 / Ounce) Sponsored



\$3.50 / ea ~~\$4.99~~

CLIF Kid ZBar
Organic Chocolate
Chip - 6-1.27 Oz

(\$0.46 / Ounce) Sponsored



\$4.99 / ea

Hormel Pepperoni
Original - 6 Oz

(\$0.83 / Ounce) Sponsored



\$6.99 / ea

Hope Original
Hummus - 15 Oz

(\$0.47 / Ounce) Sponsored



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

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

(\$0.05 / Fl.oz) Sponsored

\$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

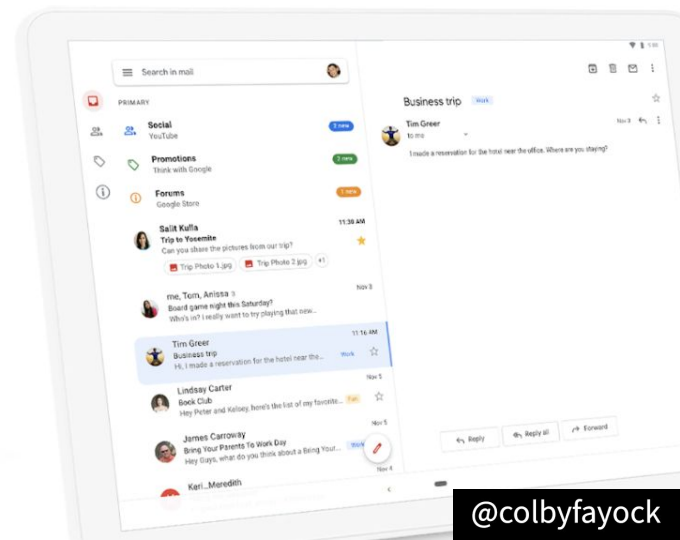
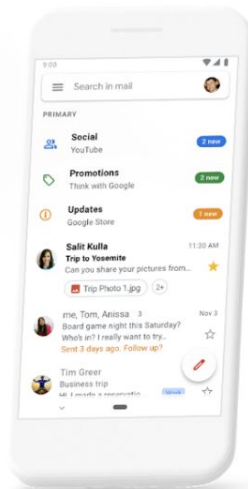
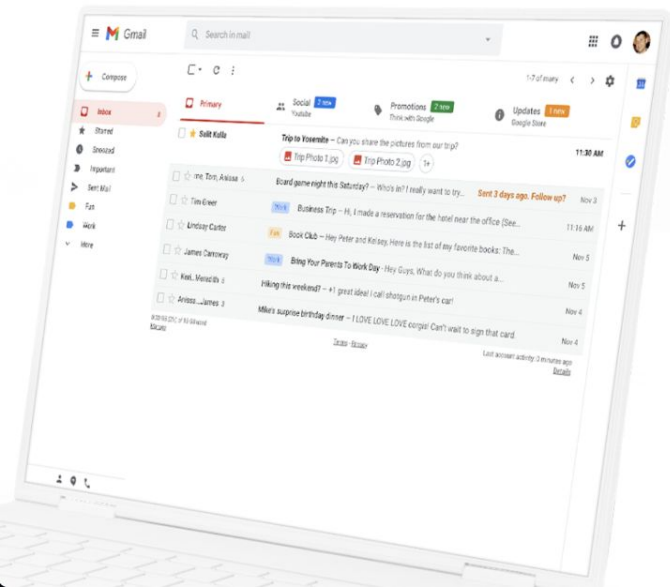
Year

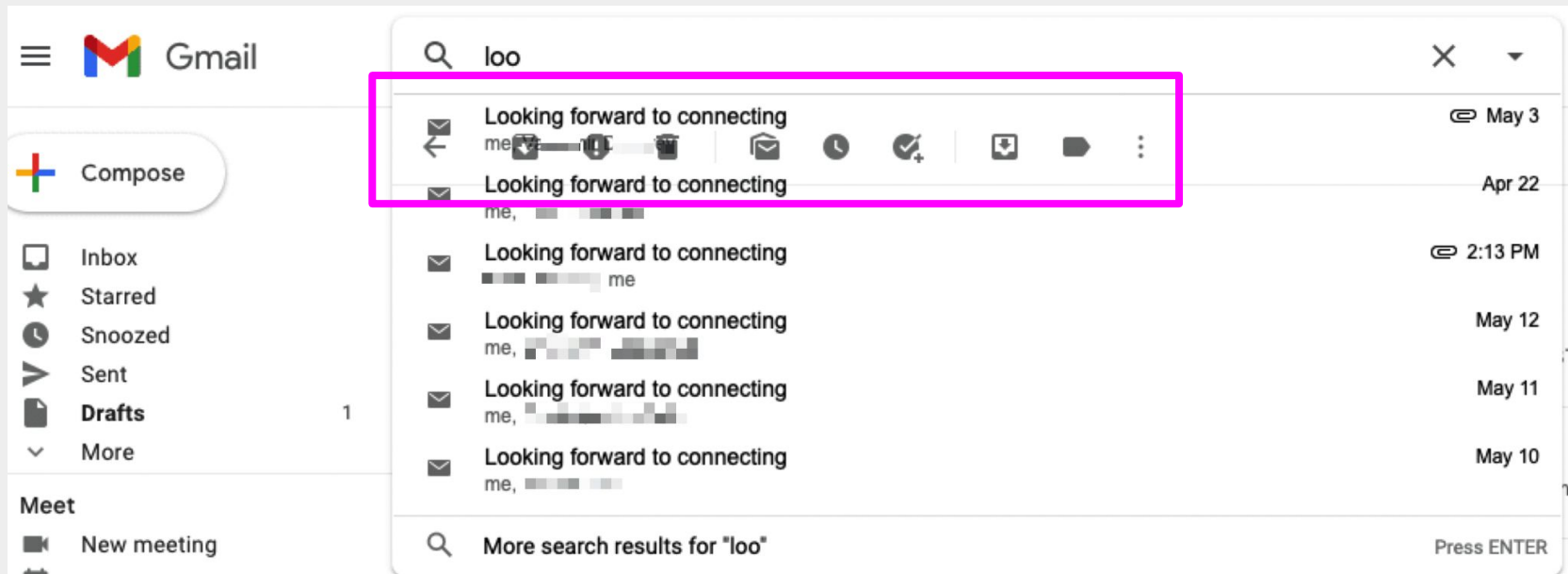
Your address

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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to net zero carbon by 2040

Learn more at About Amazon

THE
CLIMATE
PLEDGE



Hi, Colby

Customer since 2007

Recommendations for you



Your Orders



Grocery & Gourmet
Food



Electronics



Home & Kitchen

Deal of the Day



\$47⁹⁹ – \$221⁵¹

Up to 30% off on Greenworks Lawn Care Power
Tools

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Easy returns

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Proceed to checkout



UKOKE UTM01WFBA UTM01W Appliance
7 Day Weekly Programmable Outle...

\$10.99 ✓prime

In Stock

1

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Watts SVIG10 Pre-Cut 1/2-Inch Diameter
by 3/8-Inch Clear Vinyl T...

\$8.13 ✓prime

In Stock

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Save for later



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Fountain Water Pump for Aquariu...

\$12.99 ✓prime

In Stock

1

Delete

Save for later



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

Let's talk about testing!

Why is testing important?

For the CEO



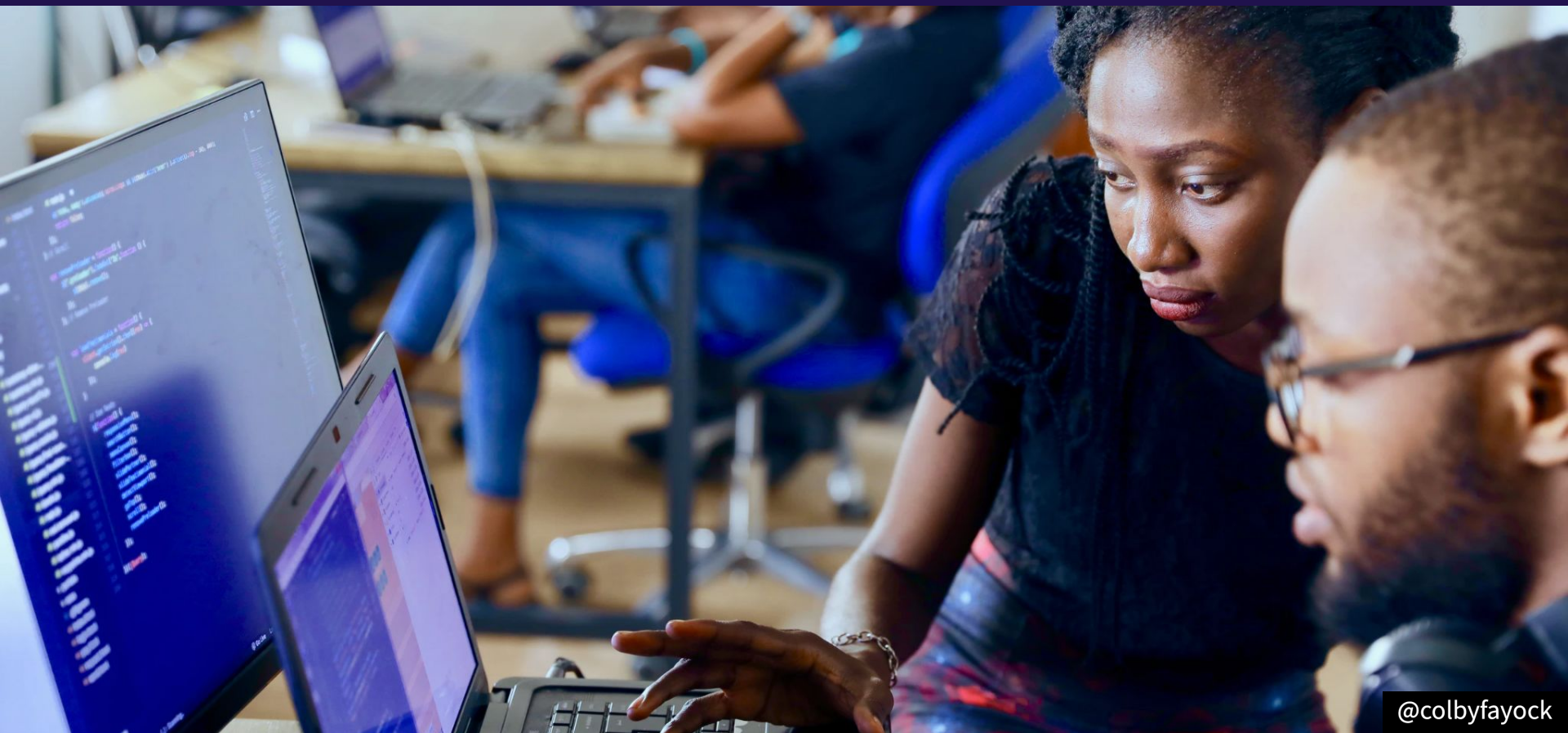
For the Product Manager



For the UX Designer



For the Developer



For the Tester



Why is testing hard?

Tests Require Lots of Code



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit



Unit

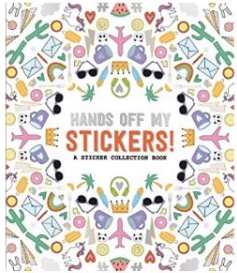


End to End

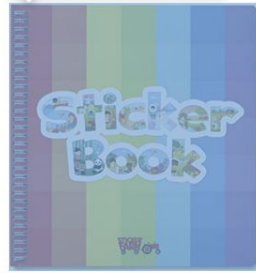
Tests Can Be Fragile



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
```

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

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

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</span>
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</li>
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</ul>
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</div>
```

... feed-carousel-card span.a

Styles Computed Layout

Filter

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”





Visual Testing





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



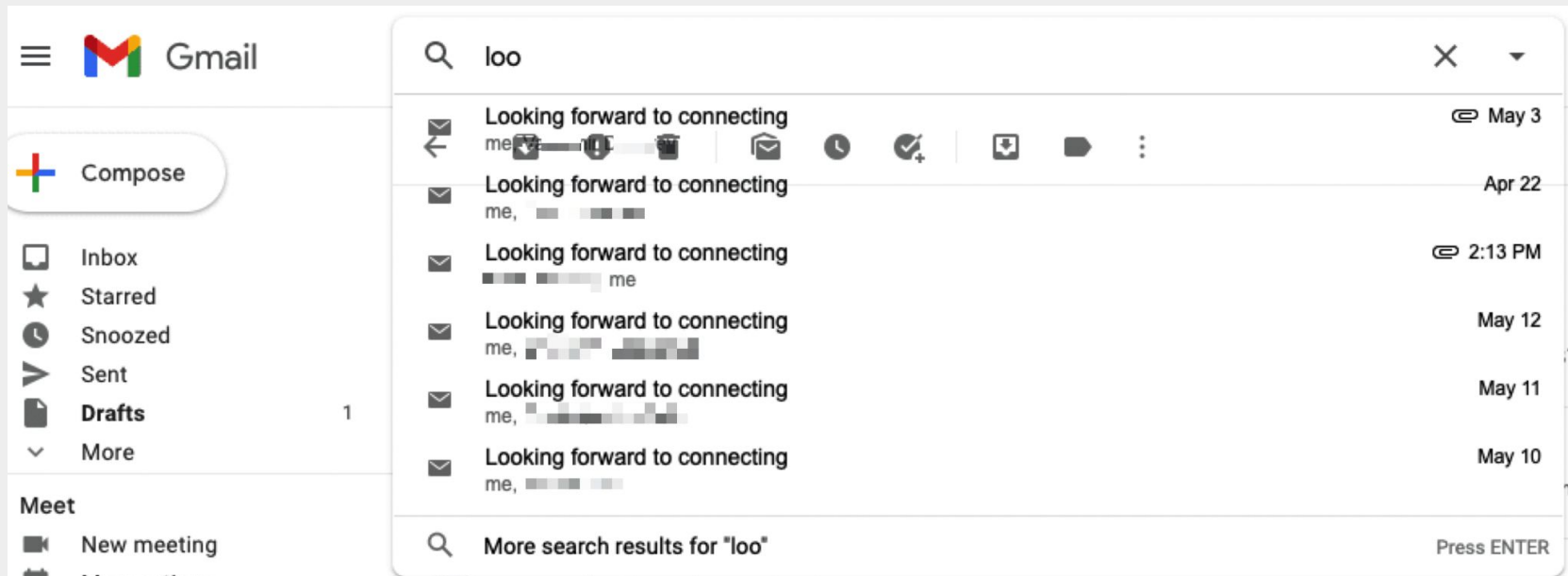
Safeway Pharmacy Informed Consent/Screening Questionnaire

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	
----------------	----------------------



 Gmail

 Compose

 Inbox

 Starred

 Snoozed

 Sent

 Drafts 1

 More

Meet

 New meeting

Search:  

 Looking forward to connecting
me,          

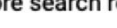
 Looking forward to connecting
me, 

 Looking forward to connecting
 me

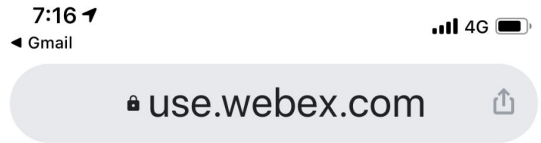
 Looking forward to connecting
me, 

 Looking forward to connecting
me, 

 Looking forward to connecting
me, 

 Looking forward to connecting
me, 

 More search results for "loo" Press ENTER



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In Stock

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Watts SVIG10 Pre-Cut 1/2-Inch Diameter
by 3/8-Inch Clear Vinyl T...
\$8.13 ✓prime
In Stock

1 Delete Save for later

COCTIONE Submersible Pump 400GPH
Fountain Water Pump for Aquariu...
\$12.99 ✓prime
In Stock

1 Delete Save for later

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



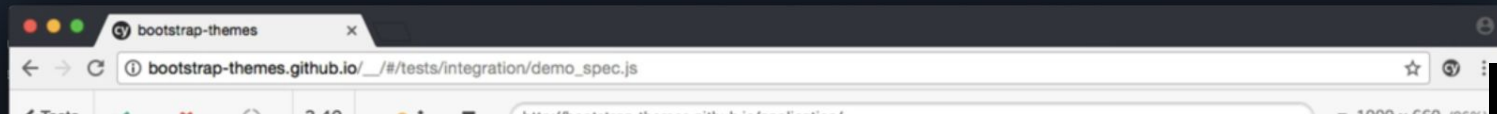
The web has evolved. Finally, testing has too.

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

```
$ npm install cypress
```

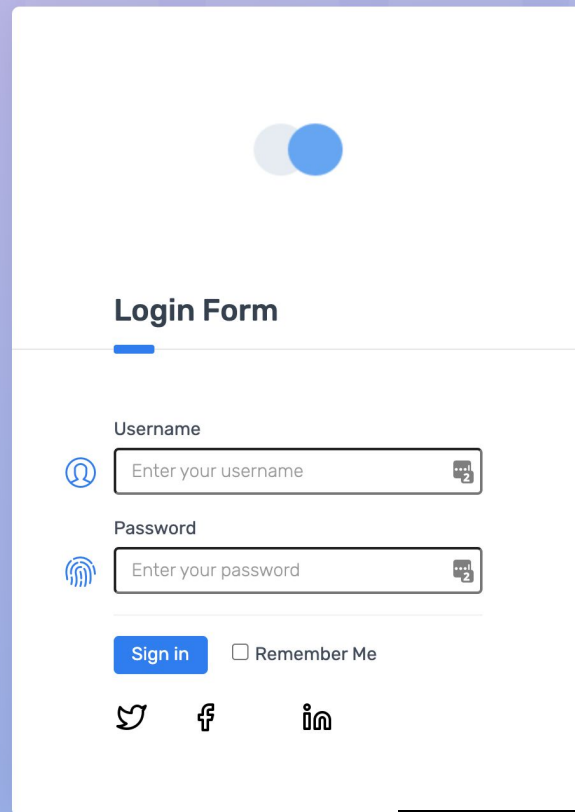
or [Download now](#) 

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

Tell us about yourself

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

Your address

Address line 1	
Address line 2	

Login Form

☐

Username

Password

Sign in

☐ Remember Me

Cypress

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

SAFEWAY

Safeway Pharmacy Informed Consent/Screening Questionnaire

Tell us about yourself

First name

Middle name

Last name

Date of Birth

Gender ☒ Male ☐ Female

Your address

Age

Address line 1

Login Form

Username

Password

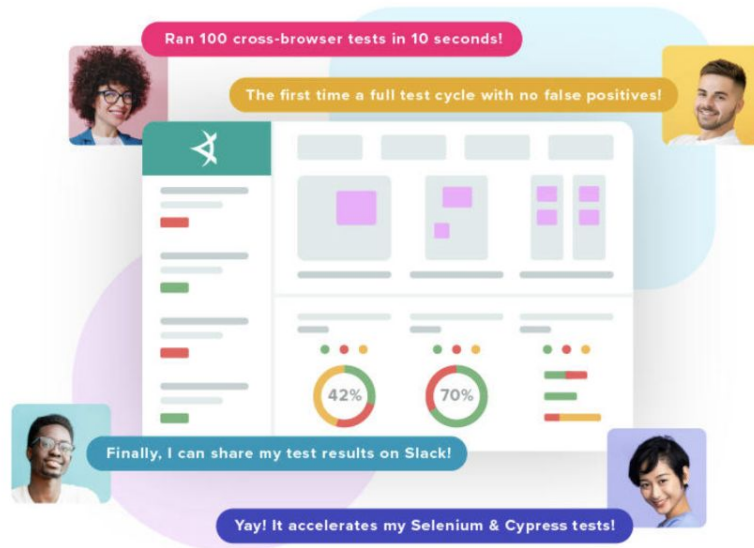
☐ Remember Me

[Twitter](#) [Facebook](#) [LinkedIn](#)

Appltools

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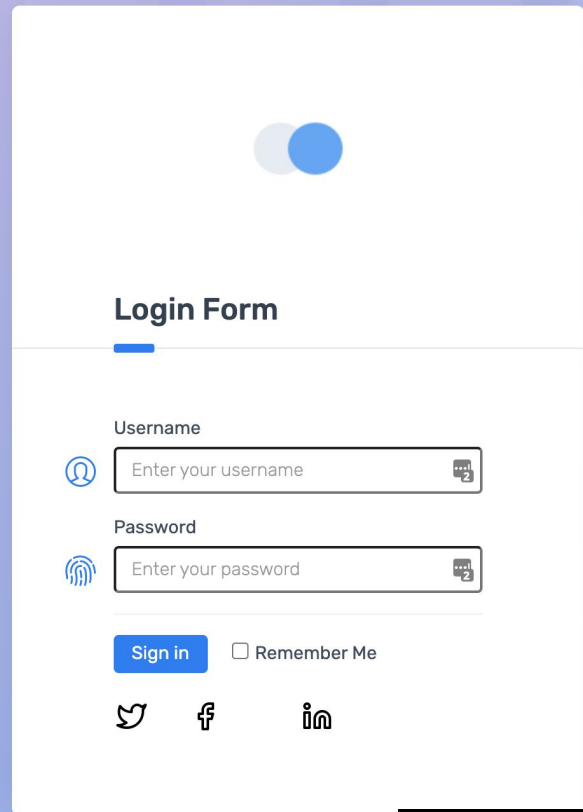
Announcing the Automation Cookbook – free bite-sized videos aimed to upskill developers and test engineers of all experience levels.

[Access the Cookbook](#)

@colbyfayock

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

Last 150 batch runs

Unresolved

Test results of batch: Login

Step 1/2: Login Window

Test: Login



VIEW

HIGHLIGHT DIFFS

ANNOTATIONS

AUTO MAINTENANCE

Scope: Default ▼

ACCESSIBILITY

Baseline | 1/2 Login Window
Strict | Linux | Chrome 89.0 | 1000x660 | Desktop

Login Form

Username

Enter your username

Password

Enter your password

Sign in

☐ Remember Me

Checkpoint | 1/2 Login Window
Strict | Linux | Chrome 89.0 | 1000x660 | Desktop

Login Form

Username

Enter your username

Password

Enter your password

Log in

☐ Remember Me

100%

@colbyfayock

Spot the Difference



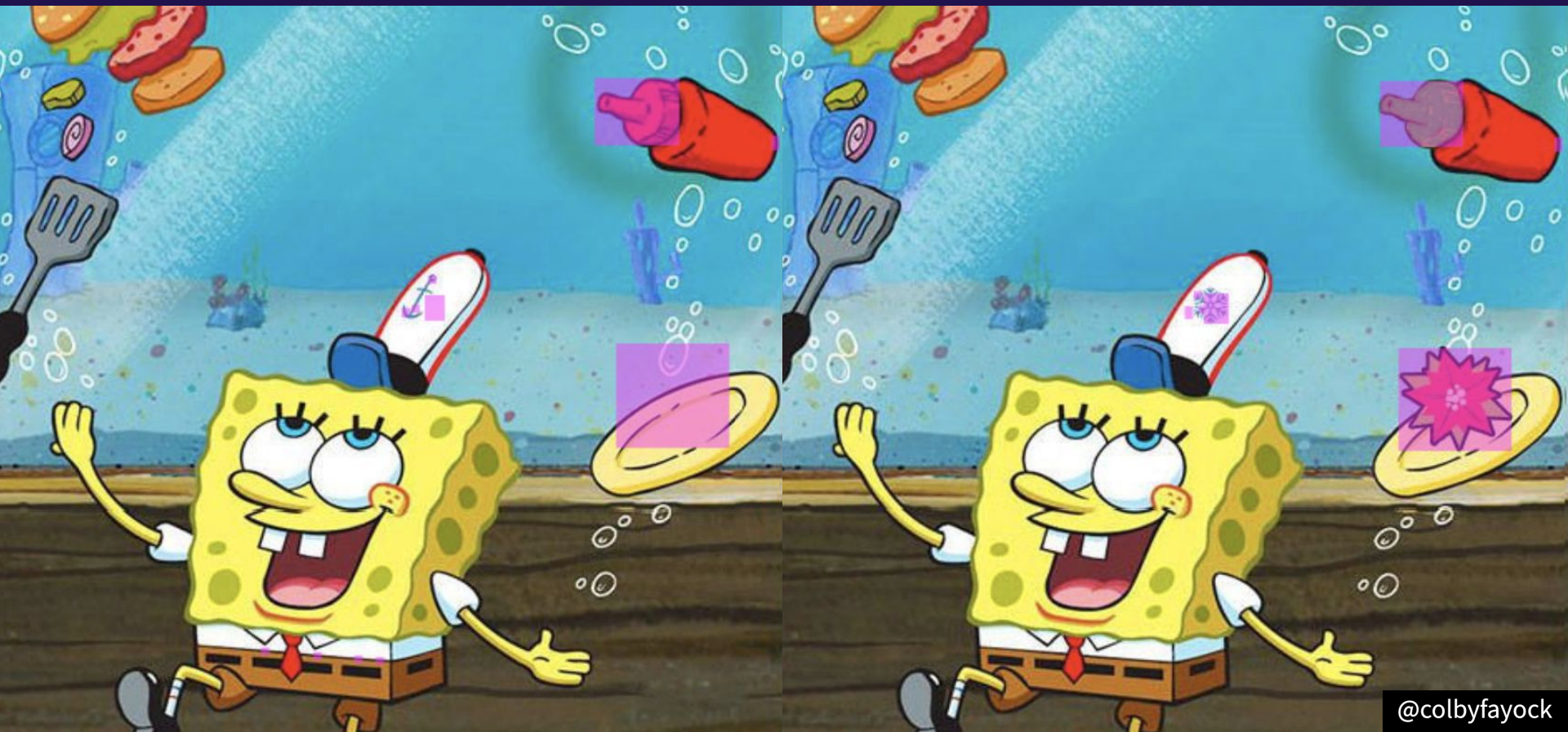
Pixel-by-Pixel (Not Applitools)



Appltools AI



Appltools AI



Applitools

Last 150 batch runs

Unresolved

Test results of batch: Login

Step 1/2: Login Window

Test: Login



VIEW

🔍 ↔️ 📄 ⌂ 🔍 📏 ⌵ ⋮

HIGHLIGHT DIFFS

< ⌛ >

ANNOTATIONS

! 💬 📐 ▼

AUTO MAINTENANCE

Scope: Default ▼

ACCESSIBILITY

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Baseline | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop



Login Form

Username



Enter your username

Password



Enter your password

Sign in

☐ Remember Me

Checkpoint | 1/2 Login Window

Strict | Linux | Chrome 89.0 | 1000x660 | Desktop



Login Form

Username



Enter your username

Password



Enter your password

Log in

☐ Remember Me

100%



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?

Tutorials

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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

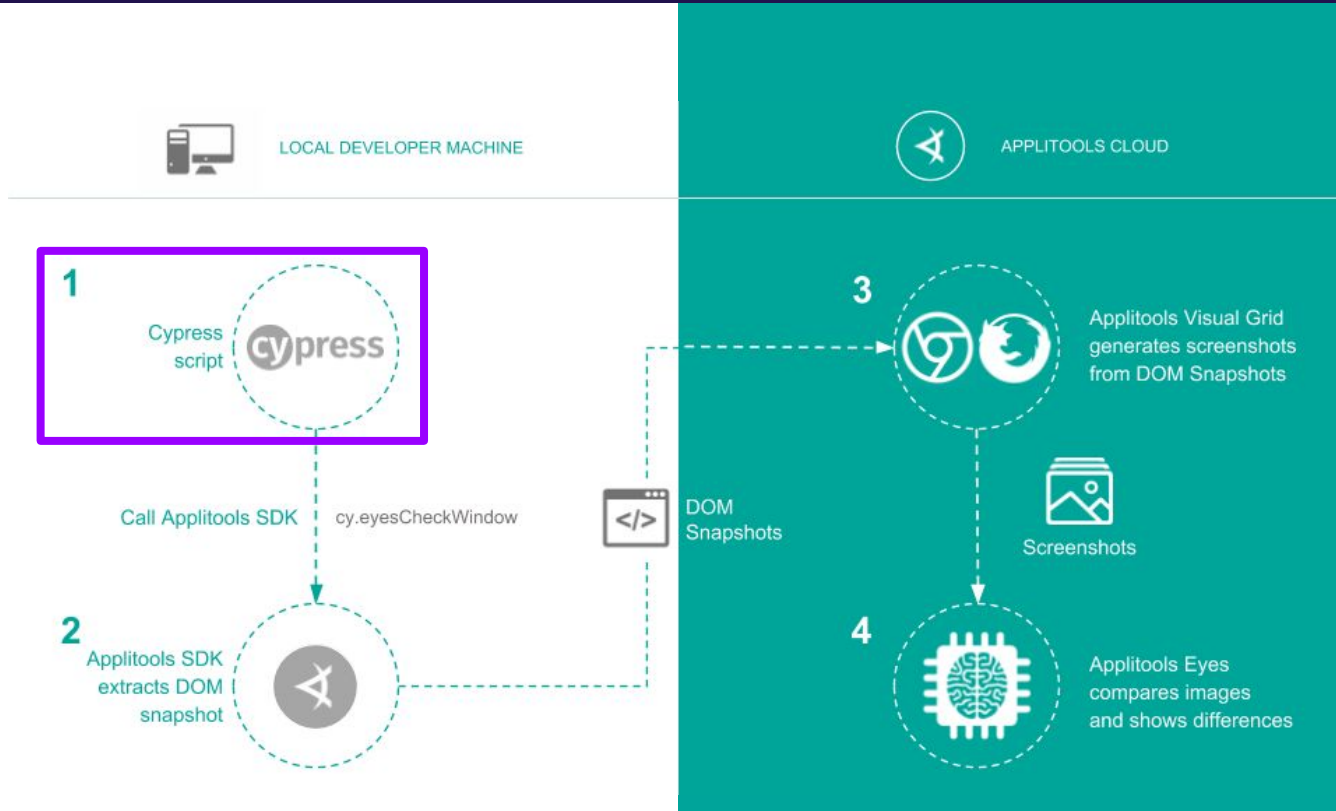
UFT/QTP

LeanFT C#

LeanFT
JavaScript

Coded UI

How Applitools Works



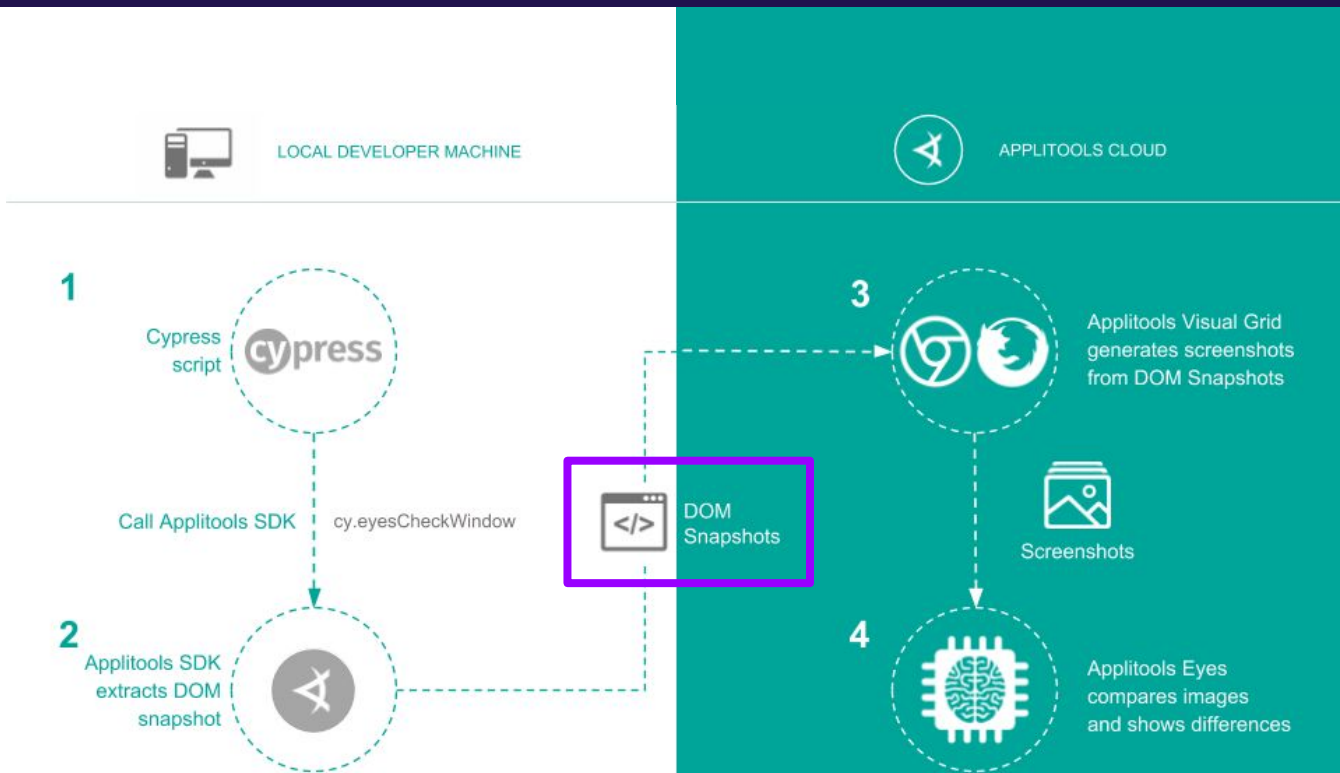
How Applitools Works



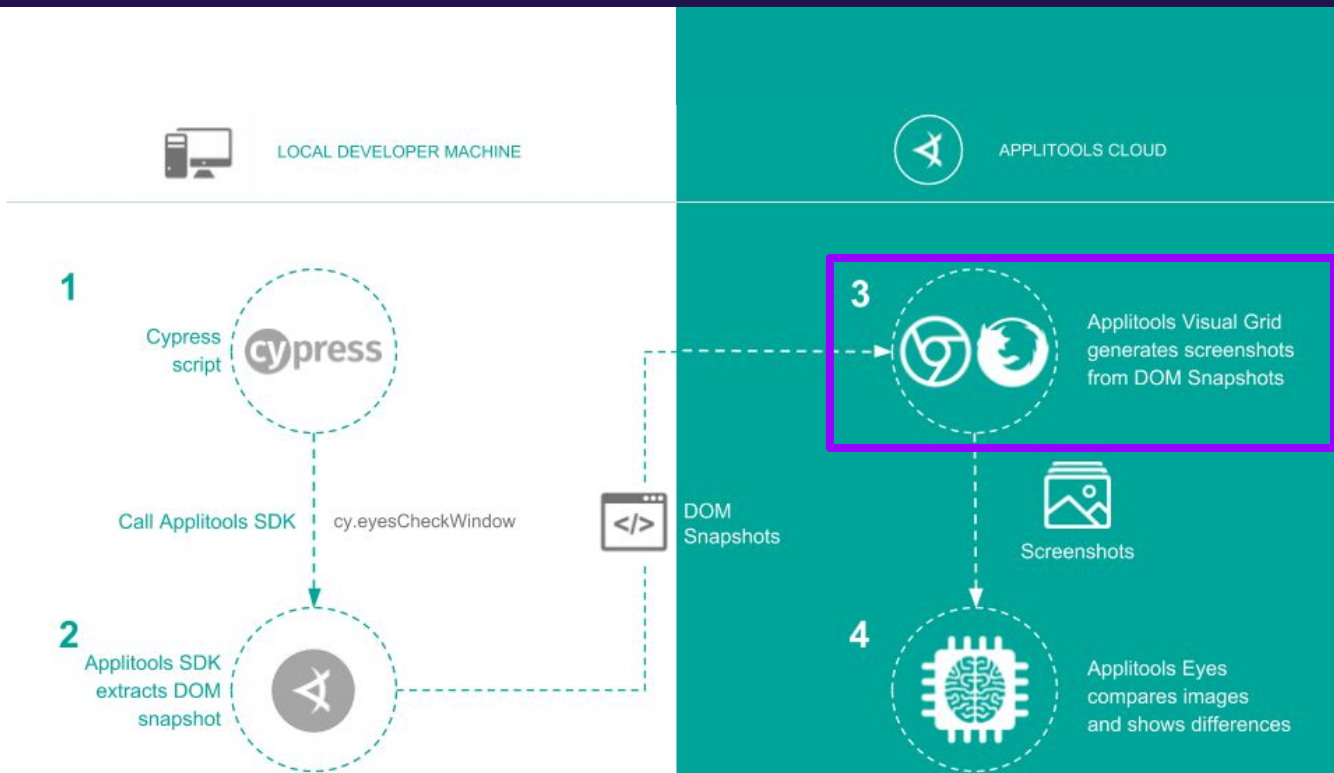
How Applitools Works



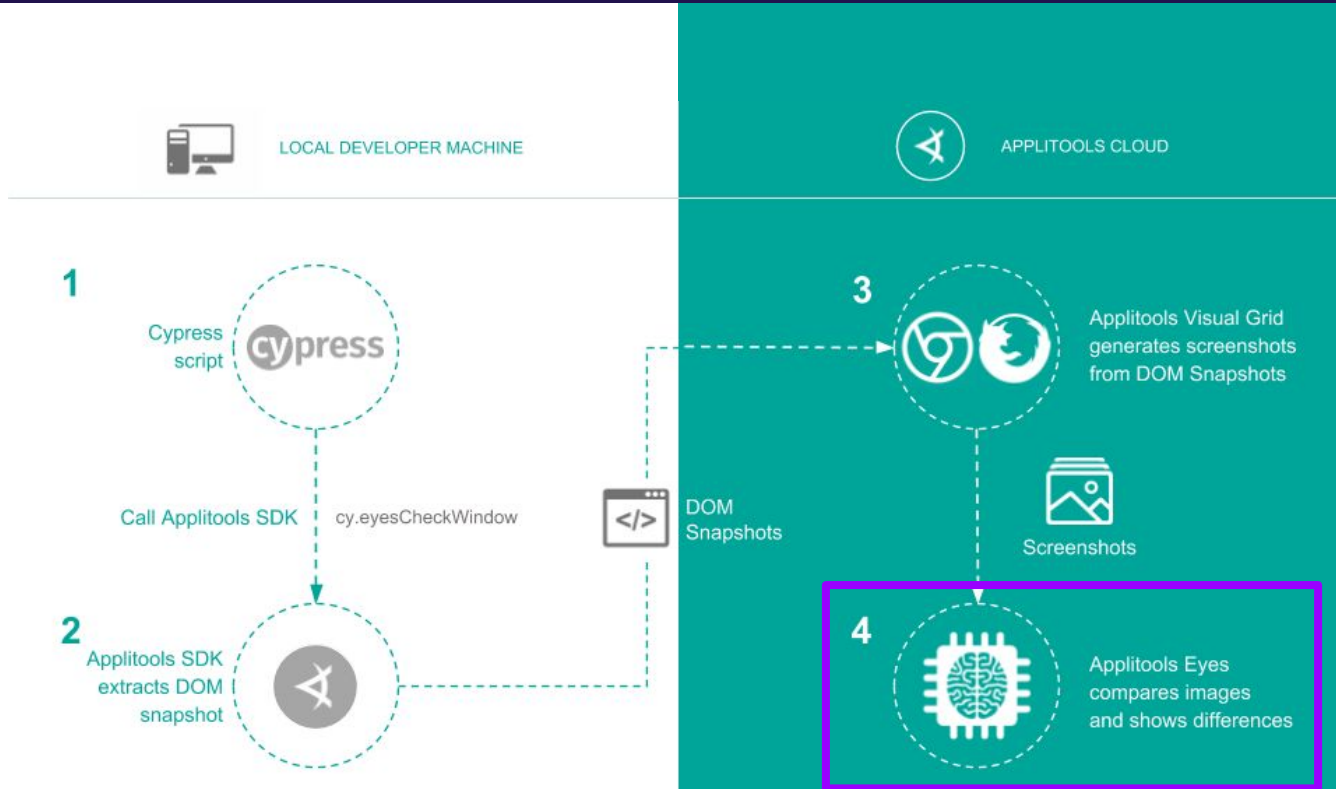
How Applitools Works



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

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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](#)

Mobile SDKs

applitools.com/tutorials[@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!

FROM DESIGN TO DEVELOPMENT CRASH COURSE

fromdesignto.dev



Colby Fayock

Developer Advocate



@colbyfayock



Thank You

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