

Web Testing Tools You Can Use



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Shout out to Alan Page

- [Alan Page](#) of Unity
- He originally gave this workshop at STAREast and then recommended I do it here at STARWEST
- I recommend checking out his blog: <https://angryweasel.com/blog/>
- More importantly Alan Page and Brent Jensen have an amazing podcast called AB Testing
 - They are also authors of the Modern Testing Principles: <https://www.angryweasel.com/ABTesting/modern-testing-principles/>



Your printout probably doesn't match my slides



Or: <https://github.com/ckenst/testing-todays-web-apps>

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Goals

- Try some tools
- Ask Questions
- Learn from one another
- Find something you can use / apply on Tuesday (or whenever you get back)
- Note: Everything we use here should work on Windows & Mac

Some things we may talk about*

- A whole lot of browser extensions
 - Bug Magnet, Form Filler, Check my Links, more...
- Big List of Naughty Strings
- Developer Tools
- Postman
- Docker
- CypressIO

What do you use? Why are you here?

1. What tools do you currently use in your testing?
2. What are some tools you want to know more about?

Browser Extensions (Chrome mostly)

- Form Filler
 - Quickly generate random data for all kinds of forms inputs
- Bug Magnet
 - Quickly locate test data for forms to test boundaries, credit cards, etc.
 - Make your own?
- SiteImprove Accessibility Checker
 - Does your site have the most basic level of accessibility in place?
 - If not are you at risk for legal action?
- Check My Links
 - Quickly discover invalid or redirected links on a page
- VisBug
 - Debug web visuals like a UX designer

Big List of Naughty Strings

- <https://github.com/minimaxir/big-list-of-naughty-strings>
- Naughty Strings?

```
#      Numeric Strings
#      Strings which can be interpreted as numeric
0
1
1.00
$1.00
1/2
1E2
1E02
1E+02
-1
-1.00
-$1.00
-1/2
```


Try the Big List of Naughty Strings app

- Node Library: <https://www.npmjs.com/package/big-list-of-naughty-strings>
- Node Validation app:
<https://www.npmjs.com/package/naughty-string-validator>

node

```
> var naughty = require('naughty-string-validator');  
> naughty.getRandomNaughtyString();
```

Developer Tools



I'm a Florist

Help

Sign up

Log in

AGOURA HILLS, CA. FLOWER DELIVERY

All arrangements on BloomNation are artistically designed and hand-delivered from the best florists in Agoura Hills, CA. Order for same-day or any day and receive updates about your gift along the way!

3460 Flowers and Floral Designs Found in Agoura Hills

California (CA) > Agoura Hills > Flower Delivery

Delivery Zip Code



Elements

Console

Sources

Network

Performance

Memory

Application

Security

Audits

EditThisCookie

1 2

Filter

Default levels

at Je (gtm.js?id=GTM-W6TLW8:946)

Our embeddable contains third-party, open source software and/or libraries. To view them and their license terms, go to <http://goto.zendesk.com/embeddable-legal-notice> [common_vendor.eb3555b...js:1](#)
[welcome.js:24](#)



```
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'karen;;. .,jason,,. .anthony;
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.taylor;;. .,;c'
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'vladimir;. .;oddooodl.
;alexandr; .:lc;....
;imaks. .,;::::;
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.nicke,.
;:c;.
```

BloomNation


If you're looking at this, maybe you should be working for us instead!
Visit <https://www.bloomnation.com/jobs/> today.

Manifest: property 'start_url' ignored, should be same origin as document. [manifest.json:1](#)


DevTools 2




Elements




Console




Sources




Network




Performance




Memory




Application



Security





Audits




EditThisCookie


Application


 Manifest


 Service Workers


 Clear storage


Storage


▼  Local Storage


 https://www.bloomnation.com


 https://js.stripe.com


 https://m.stripe.network


▼  Session Storage


 https://www.bloomnation.com


 https://js.stripe.com


 https://m.stripe.network


 IndexedDB

 Web SQL

▼  Cookies

 https://www.bloomnation.com

 https://js.stripe.com

 https://m.stripe.network


Clear storage

https://www.bloomnation.com

Usage

983 B used out of 166988 MB storage quota.

[Learn more](#)



983 B

983 B IndexedDB

983 B Total

Clear site data

Application

☒ Unregister service workers

Performance & SEO Tests

- <https://www.webpagetest.org/>
- Google Chrome's Audit's for SEO (lighthouse)

Postman

New

Import

Runner

My Workspace

Invite

Sign In

Filter

History

Collections

APIs BETA

+ New Collection

Trash

api.bloomqa.com ☆
1 request

bloomnation-mage
34 requests

dashboard-api
5 requests

mapi.bloomqa.com
6 requests

mapi.core.local
18 requests

Prod
4 requests

POST vendor_delivery_fee

+

...

No Environment

Examples (0)

POST

{{graphql}}

Send

Save

Params

Authorization

Headers

Body

Pre-request Script

Tests

Cookies


Code

Comments (0)

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Response



No response yet

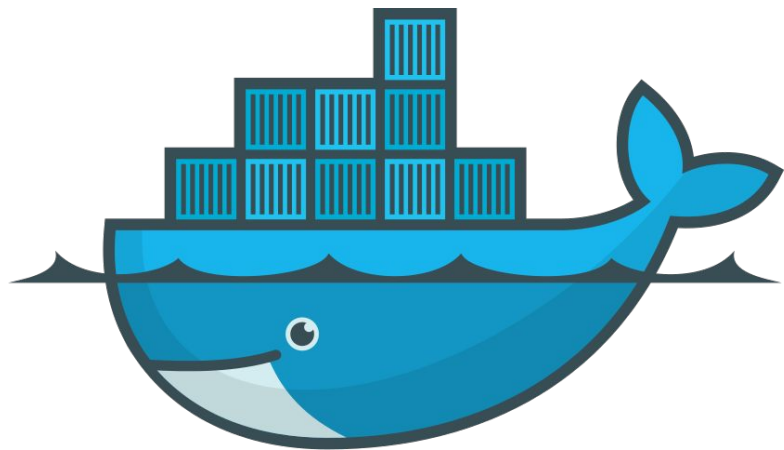
HTTP Status Codes (the good ones)

1xx Informational	2xx Success	3xx Redirection
100 Continue	200 OK	300 Multiple Choices
101 Switching Protocols	201 Created	301 Moved Permanently
102 Processing	202 Accepted	302 Found
	203 Non-authoritative Information	303 See Other
	204 No Content	304 Not Modified
	205 Reset Content	305 Use Proxy
	206 Partial Content	307 Temporary Redirect
	207 Multi-Status	308 Permanent Redirect
	208 Already Reported	
	226 IM Used	

HTTP Status Codes (the bad ones)

4xx Client Error		5xx Server Error
400 Bad Request	414 Request-URI Too Long	500 Internal Server Error
401 Unauthorized	415 Unsupported Media Type	501 Not Implemented
402 Payment Required	416 Requested Range Not Satisfiable	502 Bad Gateway
403 Forbidden	417 Expectation Failed	503 Service Unavailable
404 Not Found	418 I'm a teapot	504 Gateway Timeout
405 Method Not Allowed	421 Misdirected Request	505 HTTP Version Not Supported
406 Not Acceptable	422 Unprocessable Entity	506 Variant Also Negotiates
407 Proxy Authentication Required	423 Locked	
408 Request Timeout	424 Failed Dependency	507 Insufficient Storage
409 Conflict	426 Upgrade Required	508 Loop Detected
410 Gone	428 Precondition Required	510 Not Extended
411 Length Required	429 Too Many Requests	511 Network Authentication Required
412 Precondition Failed	431 Request Header Fields Too Large	599 Network Connect Timeout Error
413 Payload Too Large	444 Connection Closed Without Response	
	451 Unavailable For Legal Reasons	
	499 Client Closed Request	

Docker



docker

Docker

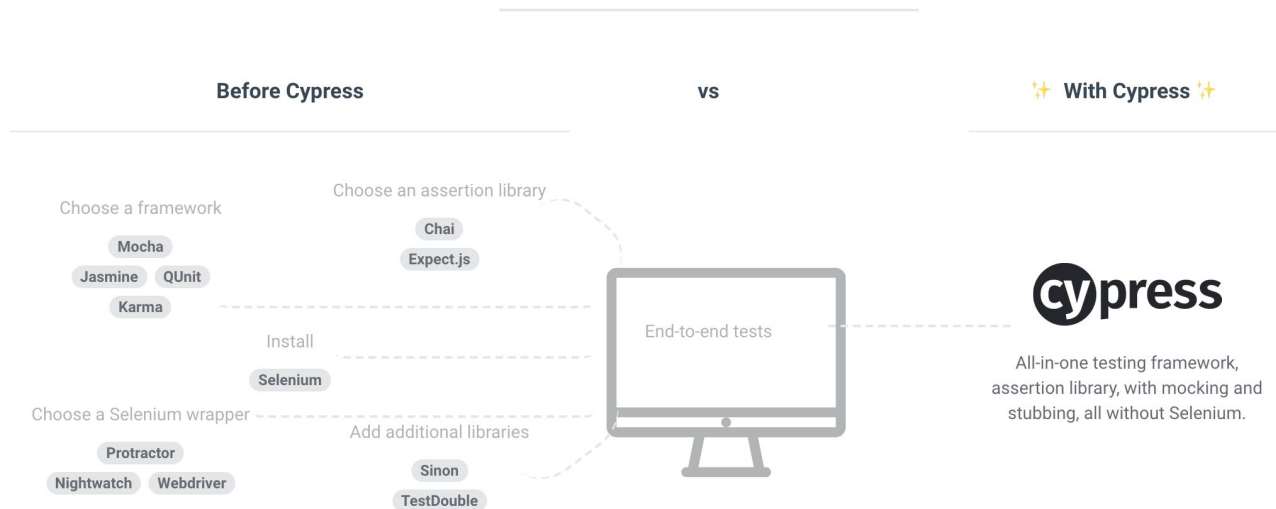
- Containers - isolate applications (kind of like Virtual Machines), but...
- Provide pre-configured, cloneable, application runtime environment.
- Library of containers at <http://hub.docker.com>
- Solves many of the problems with “test environments”
- Verify installation: docker run hello-world
 - Run a command in an image
 - Try images via docker pull
 - Create a docker image via docker build

CypressIO

- Non-Selenium based Web Automation Framework
- *Fairly* straightforward

Until now, end-to-end testing wasn't easy. It was the part developers hated. Not anymore. Cypress makes setting up, writing, running and debugging tests easy.

"Can't say enough about @Cypress_io! Makes testing modern and legacy code a snap. The GUI tools are amazing and the CLI just works. Having a video of each test spec is 🤖" - Nick DeNardis



Questions?



@ckent

Get In Touch

- Let me know what works and what doesn't work for you
 - Share your success and failures
- Contact
 - chris@kenst.com
 - @ckenst on twitter, linkedin, github
 - www.kenst.com