



CasperJS

“... a navigation scripting & testing utility..”

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WHAT DOES IT DO?
AND WHY DO I CARE?

The lazy definition...

CasperJS is an open source **navigation scripting & testing utility** written in Javascript and based on [PhantomJS](#) — the scriptable headless [WebKit](#) engine. It eases the process of **defining a full navigation scenario** and provides useful **high-level functions, methods & syntactic sugar** for doing common tasks such as:

- defining & ordering browsing [navigation steps](#)
- filling & submitting [forms](#)
- [clicking](#) & following links
- capturing [screenshots](#) of a page (or part of it)
- [testing](#) remote DOM
- [logging](#) events
- [downloading](#) resources, including binary ones
- writing [functional test suites](#), saving results as JUnit XML
- [scraping](#) Web contents



PhantomJS

- Headless webkit?
- In short, this script:
- Automates a webkit instance (i.e. Chrome, Safari, etc.)...
- To open `http://www.ghostjs.org`

Simple Javascript example

```
console.log('Loading a web page');
var page = new WebPage();
var url = "http://www.ghostjs.org/";
page.open(url, function (status) {
    //Page is loaded!
    phantom.exit();
});
```

You can think of CasperJS as
“sugar” for PhantomJS

Think jQuery compared to
native DOM manipulation

Then what's this about
integration tests???

OUR FIRST DEMO!

CasperJS has
CoffeeScript support as
well...

OUR SECOND DEMO

Debugging Tips

- Use verbose and logging if you're having trouble
- Use `casper.debugHTML` if you need to view the HTML

Integration Test Alternatives

- Selenium
 - Been around a while, lots of support, many supported languages
 - Bad documentation
- Zombie.js
 - NodeJS based, fast
 - Practically no Windows support
- Watir (and derivatives such as Watin)
- And many more...

Platforms?

- UNIX, OSX, Windows
- UNIX and OSX console support is great
- Windows... not so much
 - But you can build it on your own if needed...

More info?

- <http://casperjs.org/>
- <https://github.com/nlk0/casperjs>
 - The source is *very* readable
- <http://phantomjs.org/>
- <http://coffeescript.org/>