

Visual/CSS Regression Testing with [WebDriver.io/WebDriverCSS](http://webdriver.io)

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DrupalCamp Florida

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Who am I?



- Lisa Ridley, Director of Client Success, Savas Labs (savaslabs.com)
- Responsibilities: Project Manager and Lead Developer
- Automated Testing Champion (Functional, Behavioral, Acceptance, Visual)
- [drupal.org](https://drupal.org/u/lhridley): lhridley
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What is Regression Testing?



How do you regression test the visual components of a user interface?



What if you could take a “before” and “after” picture....

...and could easily compare those pictures to each other?



...And, what if you could automate that process...

...and run it using multiple browser / operating system combinations, and even mobile devices



Enter Selenium and WebDriverCSS



Requirements

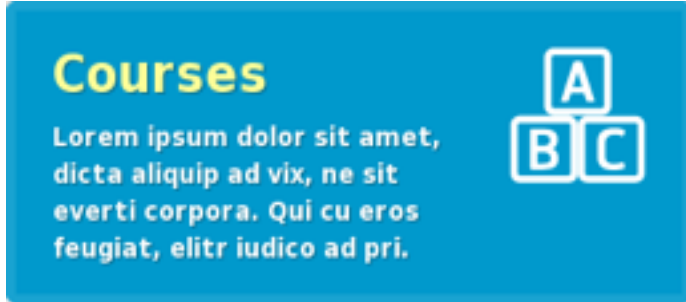
- Node Package Manager
- NodeJS
- Selenium Standalone Server
- GraphicsMagick or ImageMagick
- webdriver.io
- WebdriverCSS plugin for webdriver.io
- PhantomJS, Chrome/ChromeDriver, Firefox (Iceweasel may work)
- Font Packages (for Linux; OS X and Windows may have plenty installed)
- xvfb (for running Chrome/Firefox headless; not needed for PhantomJS)
- Testing framework (I use Mocha; Jasmine and Cucumber also work)



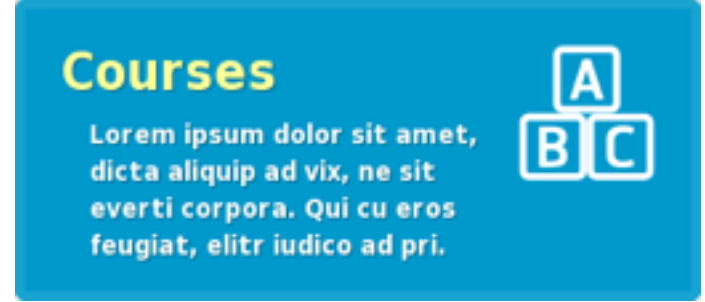
How do they work?



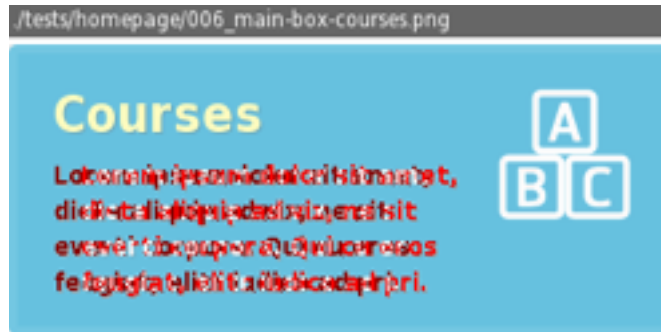
What does that look like?



Baseline



Comparison



Diff Image



Skillsets Needed to Write Tests for using WebDriverCSS

Javascript



What does a test look like?



```
it('This is the home page', function(done){
  client
    .init()
    .url('https://website.testbuild.us/')
    .pause(2000)
    .webdrivercss('frontpage',[
      {
        name: 'page',
        elem: '#page',
      },
    ],
  ),
  function(err,res) {
    assert.ifError(err);
    assert.ok(res.page[0].isWithinMismatchTolerance);
  }
)
  .call(done)
  .end();
});
```



Let's Look at this in Action



Exclude, Hide, Remove

- Exclude — overlays a blackout area on the specified element
- Hide — applies “visibility: hidden”
- Remove — applies “display: none”



Selenium / WebDriverCSS / Testing Framework Documentation

- <http://webdriver.io/guide.html>
- <http://webdriver.io/api.html>
- <https://github.com/webdriverio/webdrivercss>
- <http://www.seleniumhq.org/projects/webdriver/>
- <https://nodejs.org>
- <https://mochajs.org/>
- phantomjs.org/documentation/



BrowserStack Documentation

- <https://www.browserstack.com/automate/capabilities>
- <https://www.browserstack.com/automate/node#setting-os-and-browser>
- <https://www.browserstack.com/automate/node#configure-capabilities>
- <https://www.browserstack.com/automate/node#setting-local-tunnel>



Questions?

