Wraith - Visual Regression Testing Tool

Scenario:

- We're on a team producing changes to a website
- The developers have been asked to move a button from being centrally aligned, to being aligned to the right.
- The change is ready for testing, and has been deployed to our integration environment.
- To reduce costs, we've employed a Jack Russell called Daisy as our tester.
- Daisy hasn't reported any defects, and she's indicated that it's been tested.

- While the Daisy is cute and cheap, we're not entirely confident in her testing abilities.
  To make sure the appearance of our website hasn't changed unexpectedly - we're going to use an automated visual comparison tool

Wriath

Wraith is a (free) visual regression tool created by the developers at the BBC
http://bbc-news.github.io/wraith/

Install the prerequisites

Homebrew – package manager for Mac OS X

- Check you have Homebrew installed
  In terminal: `brew -version`
- If you don't see a version go to https://brew.sh/ & follow the installation instructions

Ruby

- Check you have Ruby installed
  In terminal: `ruby -version`
- If you don't see a version go to: https://www.ruby-lang.org/en/documentation/installation/#homebrew & follow the installation instructions

ImageMagick

ImageMagick provides a host of command line tools for image manipulation and comparison.

- In terminal: `brew install imagemagick`

PhantomJS – scriptable headless WebKit browser

- Check you have PhantomJS installed
  In terminal: `phantomJS -version`

- If you don't see a version returned
  In terminal: `brew install phantomjs`

Install Wraith

Wriath is provided as a RubyGem (ruby package)

- In terminal: `gem install wraith`

Run Wraith

- Create a directory for us to work in.
- Navigate to the directory in terminal and run: `wraith setup`
  You'll see some new folders and files get created in that directory.

Setup capture.yaml

Capture.yaml is the main settings file where we configure what Wraith will look at.
This is where we will setup the testing for our site.

Open Capture.yaml and ...

- Change current to be : https://applitools.com/helloworld
- Change ew to be: https://applitools.com/helloworld?diff2
- Keep path Home as / (we will just test the landing page)
- Remove the other paths
- Remove the line 'before_capture: …'

In terminal, within our working directory run: `wraith capture configs/capture.yaml`

Once it completes, there will be a new 'shots' directory
Open gallery.html and inspect the results

Try changing the fuzz level in the capture.yaml file, and see how it affects the error detection.

How well has Daisy done with her testing?

What bias' might Daisy have experienced?