Visual Regression Testing + Drupal

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Companies I Worked For

- edX
- EDC Harvard University
- Verizon
About this session

- Types of testing
- Why Visual testing?
- What to test?
- Manual vs Automated testing
- Drupal module for testing
- Demo
- Best practices / Tips
Types of Testing

- Unit testing
- Functional testing
- Load testing
- Usability testing
- Security testing
- Visual testing
Why Visual testing?
Why Visual testing? (contd....)
What to test?

Drupal.org

Welcome to Drupal.org

Create new account  Log in  Request new password

Username or email *

Password *

Log in
What to test? (contd....)

Views
Posted by merlinofchaos on October 28, 2015 at 9:20pm

You need Views if You like the default front page view, but you find you want to sort it differently. You like the default taxonomy/term view, but you find you want to sort it differently; for... Views can do a lot more than that, but those are some of the obvious uses of Views. Views for Drupal...

Module project

Search again
views

or filter by...
All (435182)
Forums & Issues (411296)
Documentation (17085)

or search for...
IRC Nicks
Users
Manual/Automated Testing

Automated Testing

- Faster feedback
- Saves time
- Safety net for code changes
- Humans make mistakes
Drupal module for testing

Drupal + Selenium

#Drulenium

https://www.drupal.org/project/drulenium
Drulenium Visual Testing Concept

- System takes screenshots of web pages, before you make changes.
- System takes another set of Image screenshots of web pages, after you make changes.
- System calculates the difference of image pixels that changed and generates an animated GIF to look at.
# Drulenium

## Content

**Published status Type**

- Any

**Title**

- Any

### Filter

<table>
<thead>
<tr>
<th>TITLE</th>
<th>CONTENT TYPE</th>
<th>STATUS</th>
<th>OPERATIONS</th>
</tr>
</thead>
</table>

No content available.
Drush integration

```
NDubbaka-mbp:drulenium hhdtemp12$ sudo drush|grep vr-
Password:
  vr-create (vrc)  Create release and generate snapshots.
  vr-diff (vrd)    Generate comparision report for 2 releases.
  vr-update (vru)  Generate new snapshots for a release.
```
Aegir & DevShop integration

https://www.drupal.org/project/hosting_drulenium
https://www.drupal.org/project/provision_drulenium
Other tools

github.com/BBC-News/wraith

github.com/Huddle/PhantomCSS
Best practices / Tips

● Start simple
● Don't aim for 100% test coverage
● Core functionality
  ○ Top pages
● Anonymous / Authenticated
● Consider the time the tests take to run
● Reduce false positives
  ○ Threshold - percentage difference
  ○ Find tests that fail without code changes
  ○ Selectively ignore dynamic parts of the page
● Monitor periodically

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Questions?

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