From Students…
…to Professionals

Alpha Presentation
Taking Firefox Screenshots Testing Suite to 11

The Capstone Experience

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Project Overview

• Mozilla’s Screenshot Testing Suite assists developers in catching visual bugs
• Our contributions will allow developers to only test parts of the UI that are pertinent to their work
• Developers will not be bombarded with irrelevant alerts
• The goal is to mature the tool
System Architecture

- Legacy Firefox Extension
  - Command line
  - Try server
  - Autoland CI
  - Configurations
  - Test Runner
  - Crop Screenshots
  - Screenshot Utilities
  - Compare Screenshots Locally
  - Compare Screenshots With Web UI
Automated Cropping Region
Major Difference Detected

https://screenshots.mattn.ca/compare/?oldProject=mozilla-central&oldRev=6f8f10f48ace5692256efd91f011bd23054ee2ec&newProject=mozilla-central&newRev=5342d9e5011c53328468733704368e743affa817
Subtle Difference Detected

Before Change

After Change

Difference

https://groups.google.com/forum/#!topic/mozilla.dev.ui-alerts/6-1of3K2wFY
What’s left to do?

• Improving Integration with Other Tools (in progress)
• Keep Adding/Improving Configurations
• Continue Adding Unit Tests
• Polish Cropping
• Continuous code review
Questions?