Alpha Presentation
Multi-Touch Gestures for Firefox

The Capstone Experience

Team Mozilla

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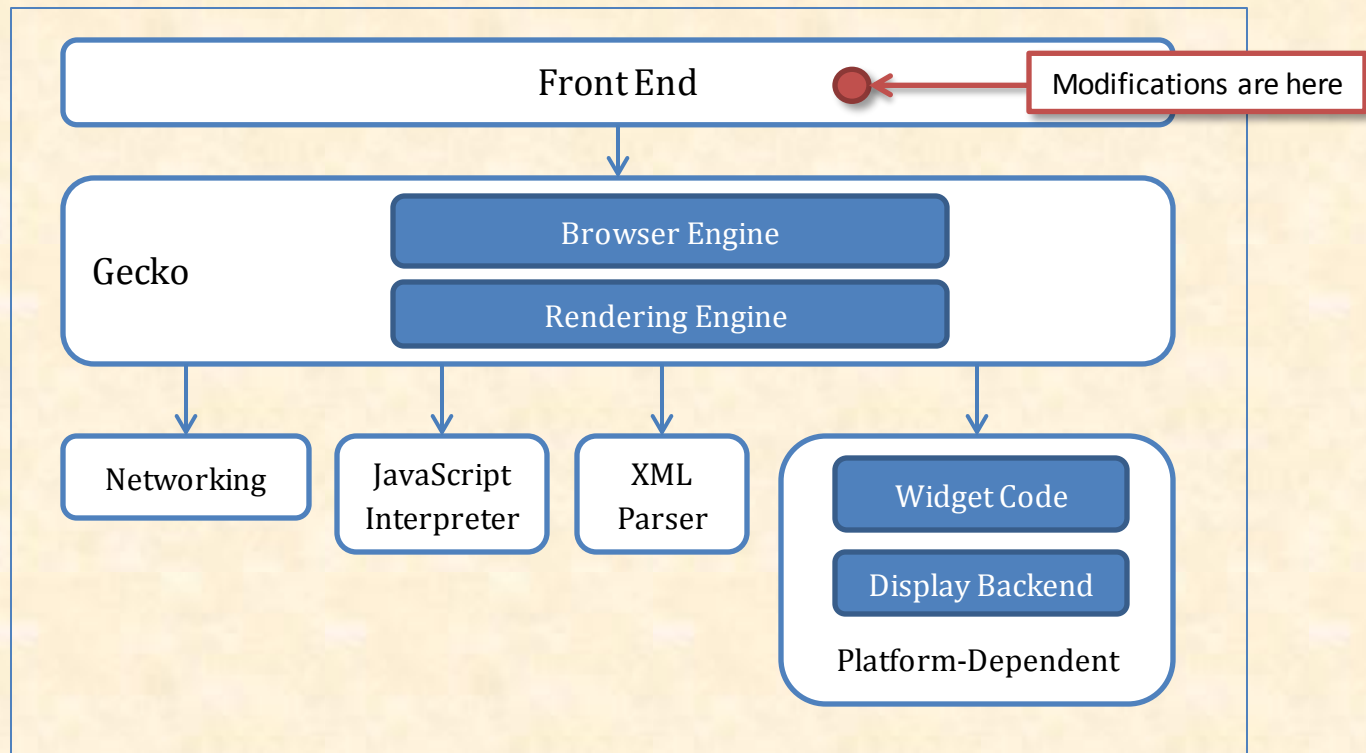
Spring 2013

From Students…
   …to Professionals

Project Overview

- Objective: Improve current Firefox multi-touch gesture support by introducing the following:
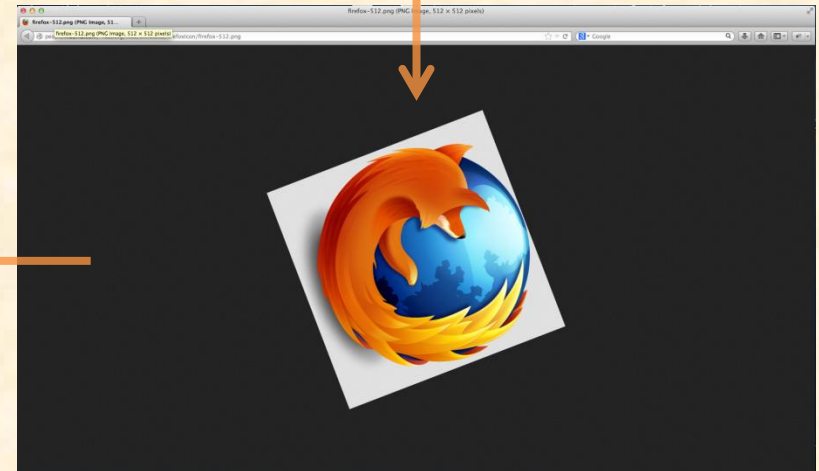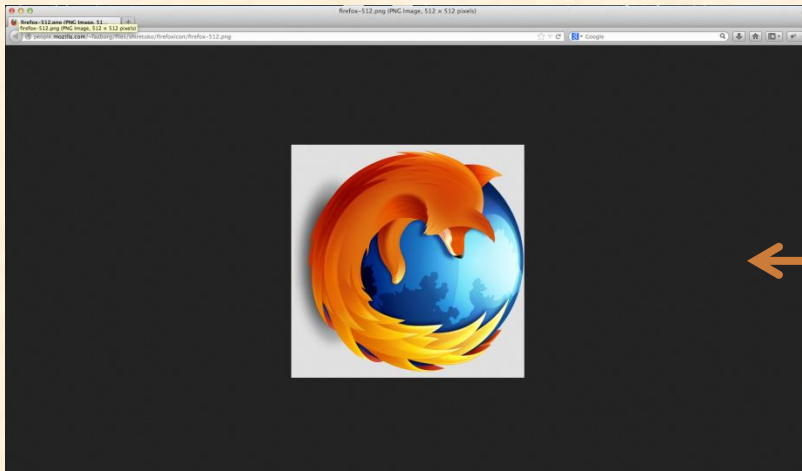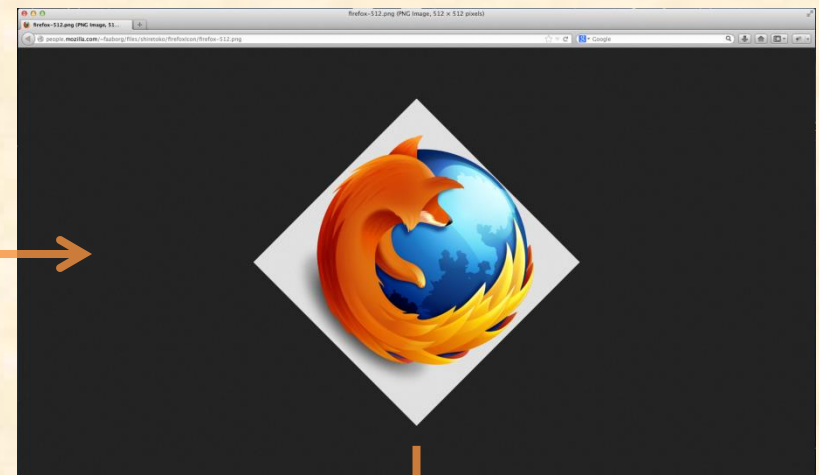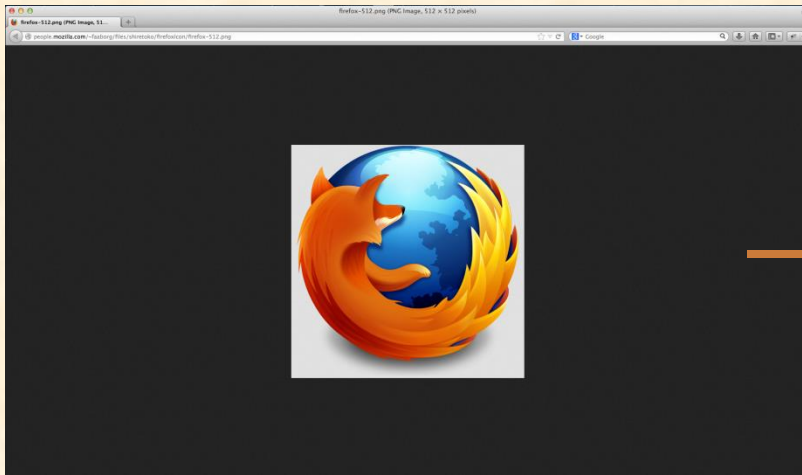
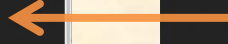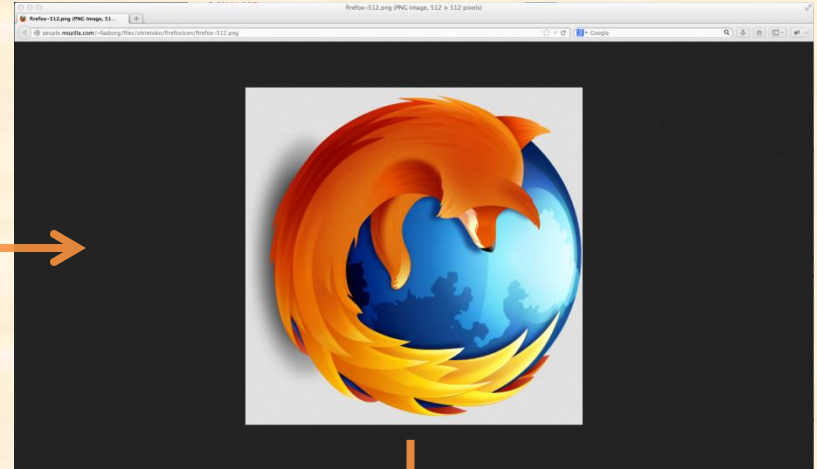| Gesture	Status
Rotate	- Completed and in Mozilla repository - Fixing a few minor bugs
Pinch	- Good progress
Double Tap	- To be implemented once pinch is complete

System Architecture

Front End

Modifications are here

Gecko

Browser Engine

Rendering Engine

Networking

JavaScript Interpreter

XML Parser

Widget Code

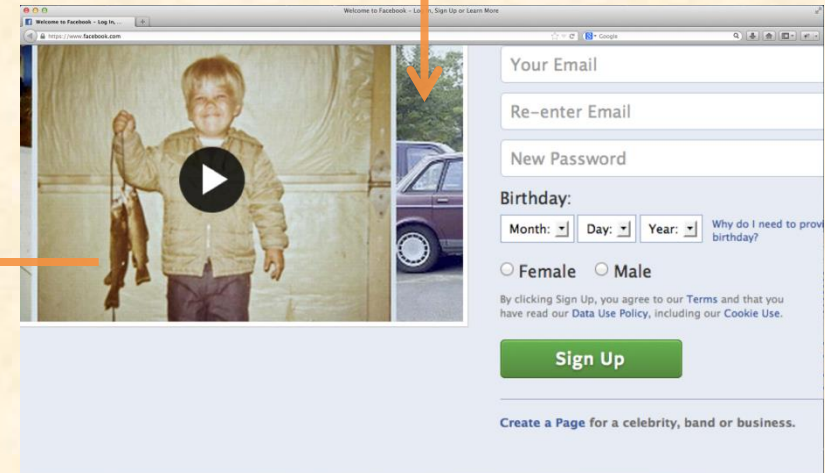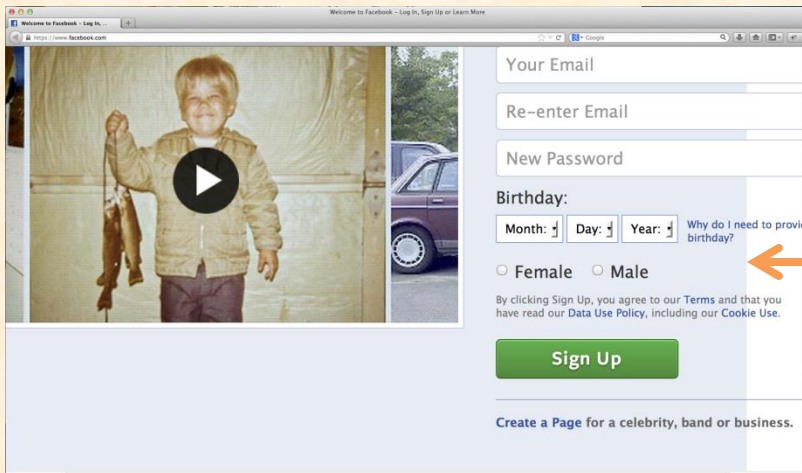Display Backend
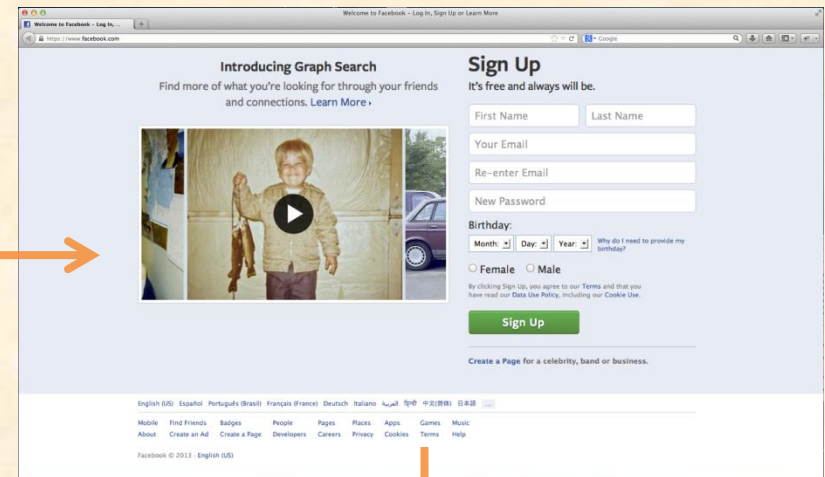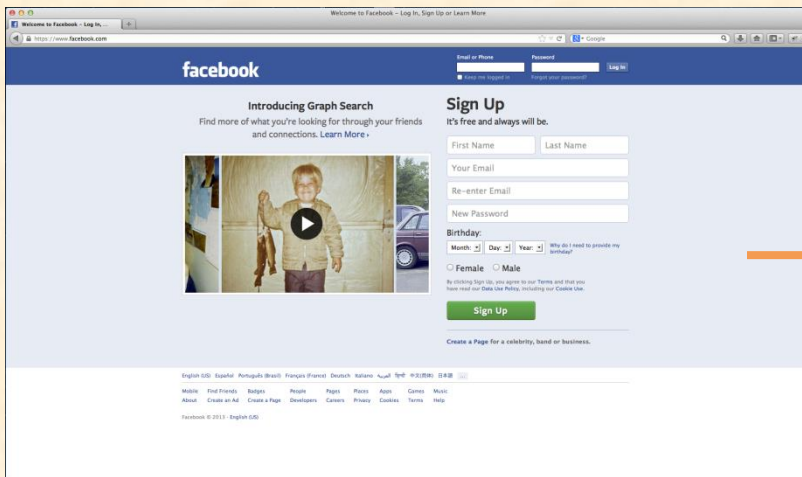
Platform-Dependent

Rotate Image

Zoom Image

Zoom Webpage

What's Left?

- Complete pinch gesture
  - Re-render page correctly (consistent layout)
  - Center zoom on cursor—translate image, etc.
  - Edge cases
- Implement double tap
  - Modified version of pinch
- Create, submit patches for pinch and double tap
- Debug gestures
- Test code
- Documentation