Windmill

Write and maintain UI tests for your web applications

Mikeal Rogers & Adam Christian

Demo!

Requirements

- Run single test on all target browsers
- Easily debug tests
- Easily fit in to continuous integration

History

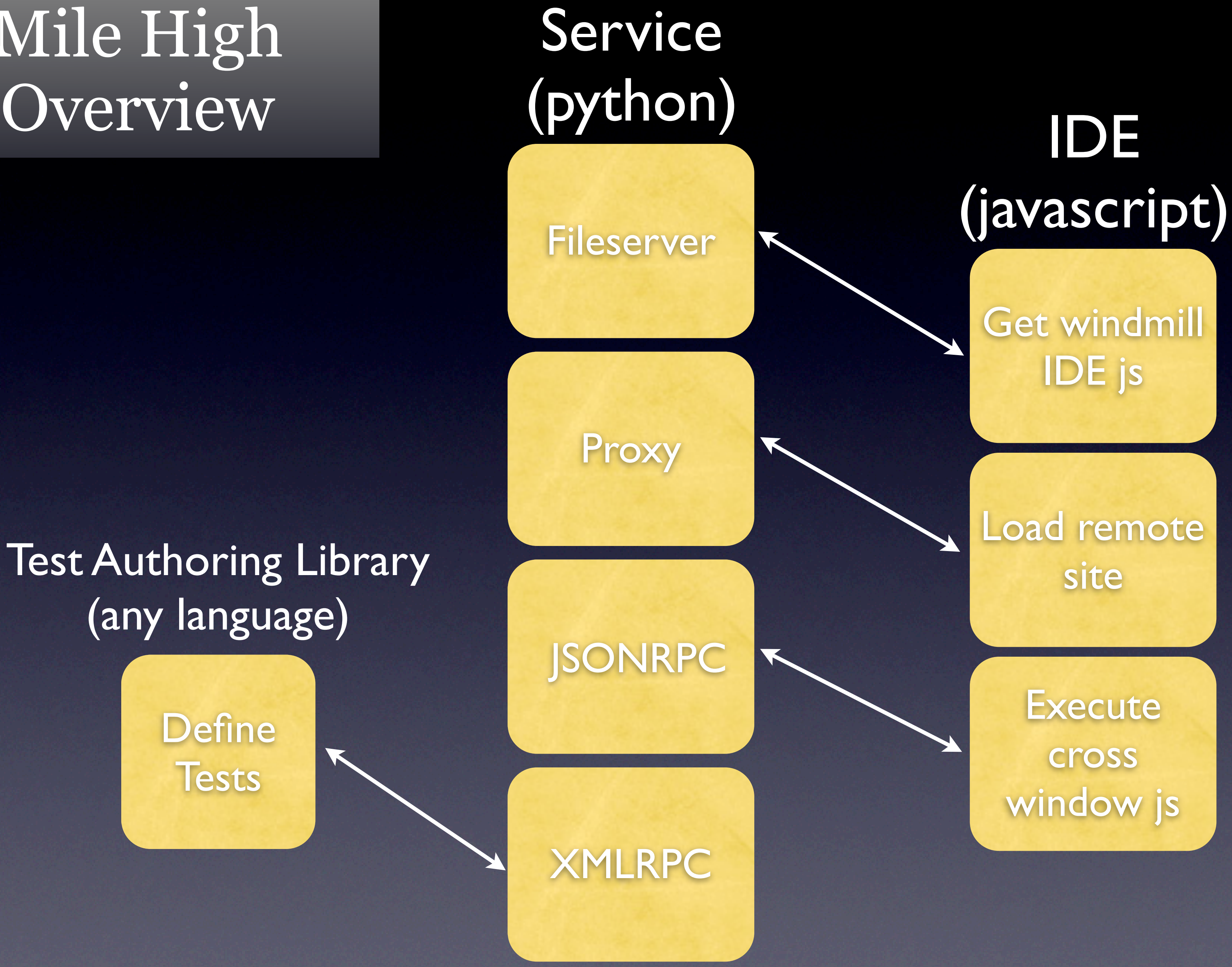
- SilkTest, Winrunner, dogtail
- Selenium
  - javascript is the platform
  - overcome the "same domain" security policy through a smart proxy

Why windmill?

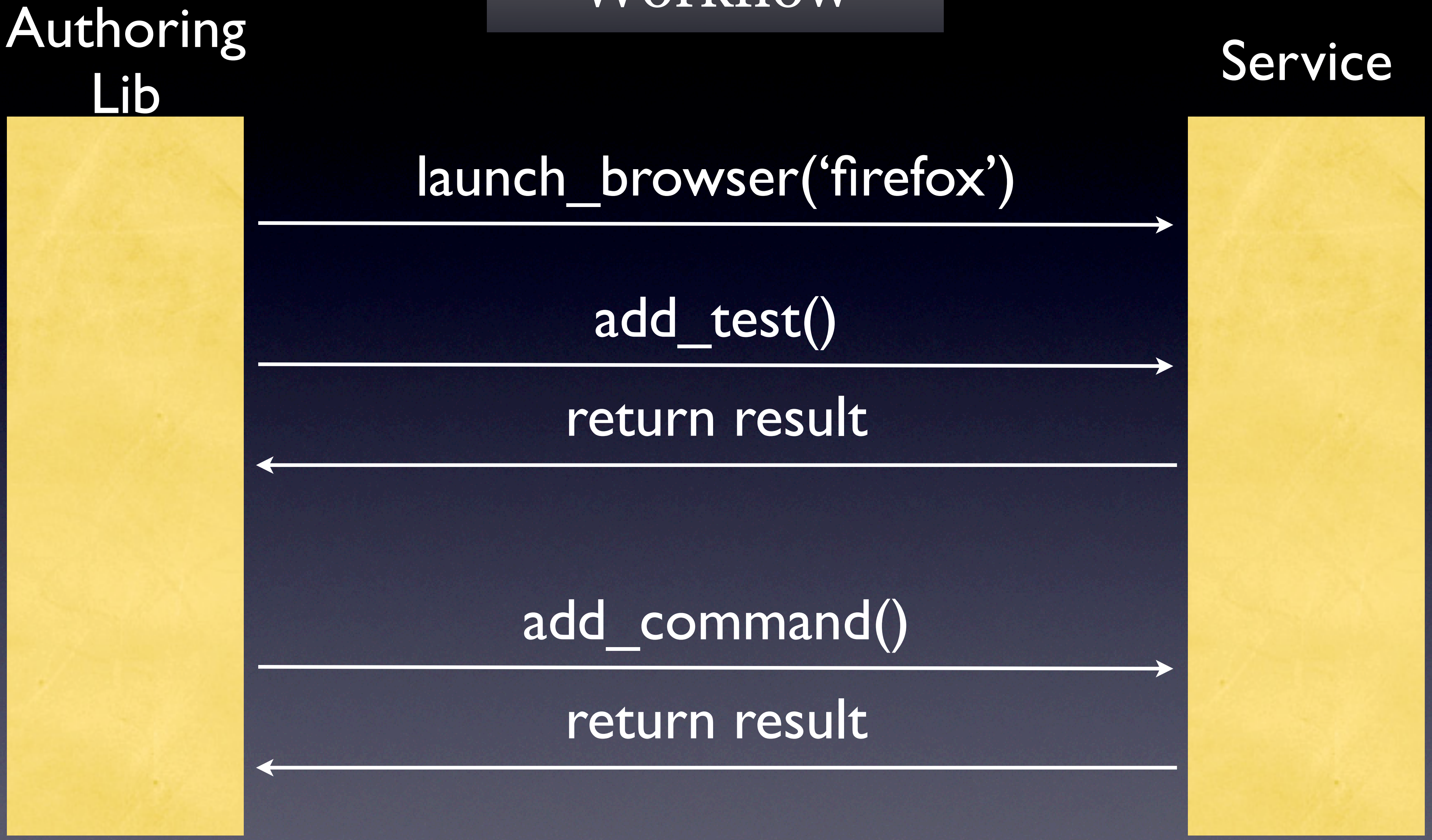
We need to test a heavy ajax application that changes dramatically between releases.

- Existing solutions didn't fulfill all of our requirements
- Debugging and test authoring was very difficult
- Continuous integration was a pain
- Adding additional support was a pain

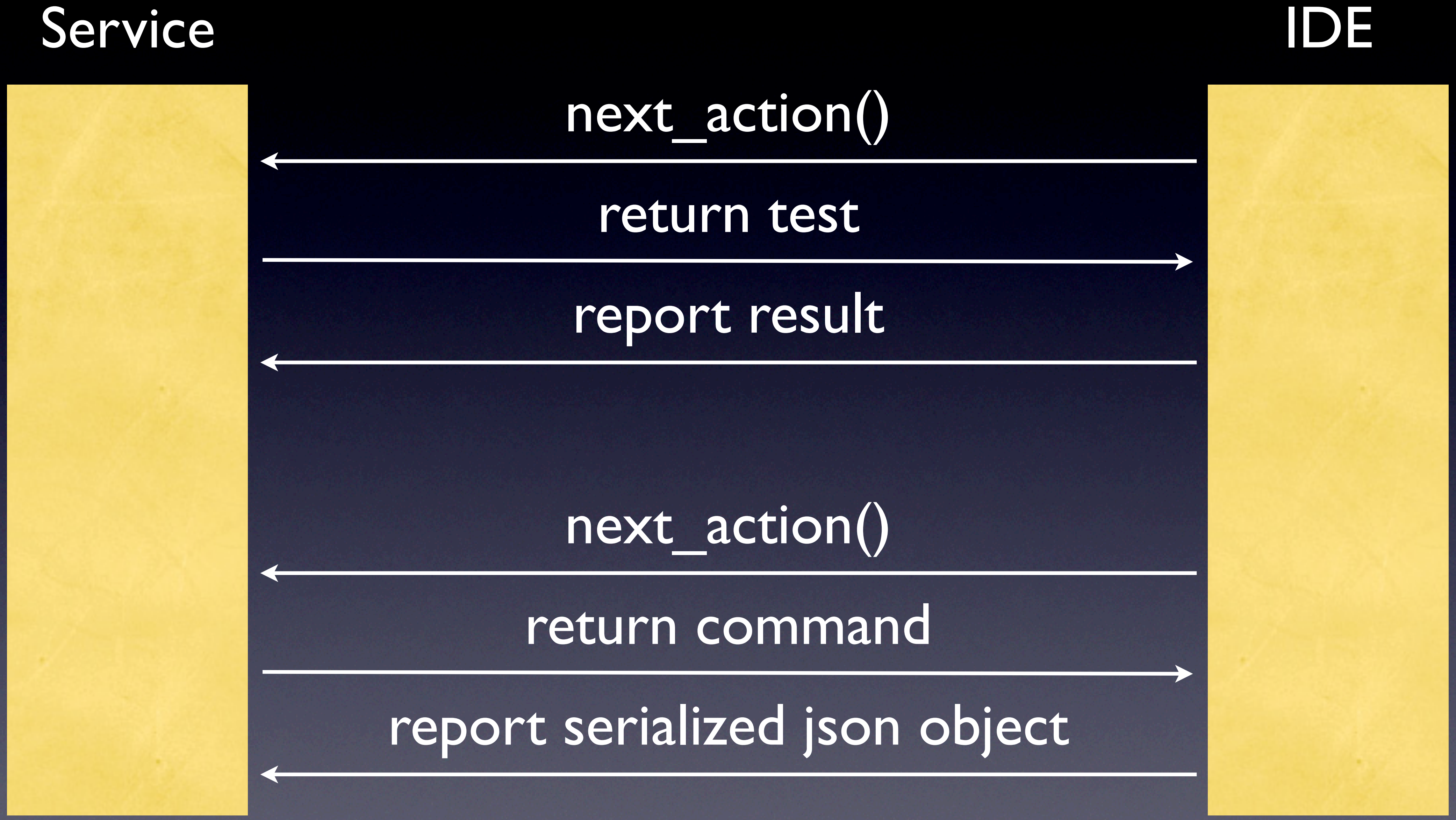
Mile High Overview



XMLRPC Workflow



JSONRPC Workflow



Supporting continuous integration

Service	IDE
Browser Launching and configuration	Build UI and start running tests
Test Input	Test running, performance, debugging
Results Tracking and output	Stop on Failure and interactive debugging
Dynamic debugging information requests	Arbitrary remote javascript execution
Dynamic commands	Command execution

Now the fun stuff

What can I automate?

- Everything!

OOTB support for; open, click, check, radio, wait, type, doubleClick, select, dragDrop

All controller actions support a unified “locator” to reference UI elements. Supports; xpath, link, name, id, and jsid

How can I extend the controller/commands api?

- Extentions are simple to write in javascript
- Extension functions are first class citizens

IDE Features

- Multi-browser test recorder
- Multiple layers of support for performance information and metrics
- DOM explorer
- Javascript shell. (thank you mochikit)

Service Features

- Extensible logging system (stdlib logging module)
- 3 run modes.
  - “headless” command line. stdout.
  - “shell” mode. ipython or stdlib python shell.
  - wx GUI. PyCrust shell, full view of logging all logging with level selector.
- Browser launching and configuration.
- Server level pre and post hooks for test results parsing, validation, etc.

http://windmill.osafoundation.org

Demo!

The Future

- More supported languages
- Improve packaging
- Improve UI (Service and IDE)
- Better record saving support
- What do you need?

Q & A