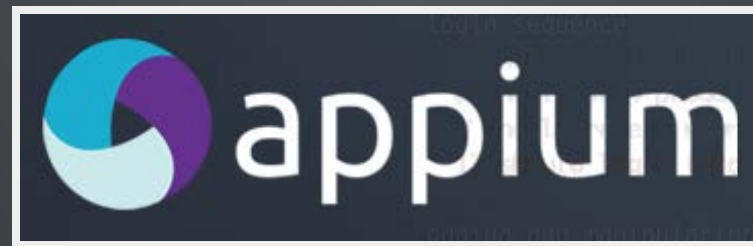
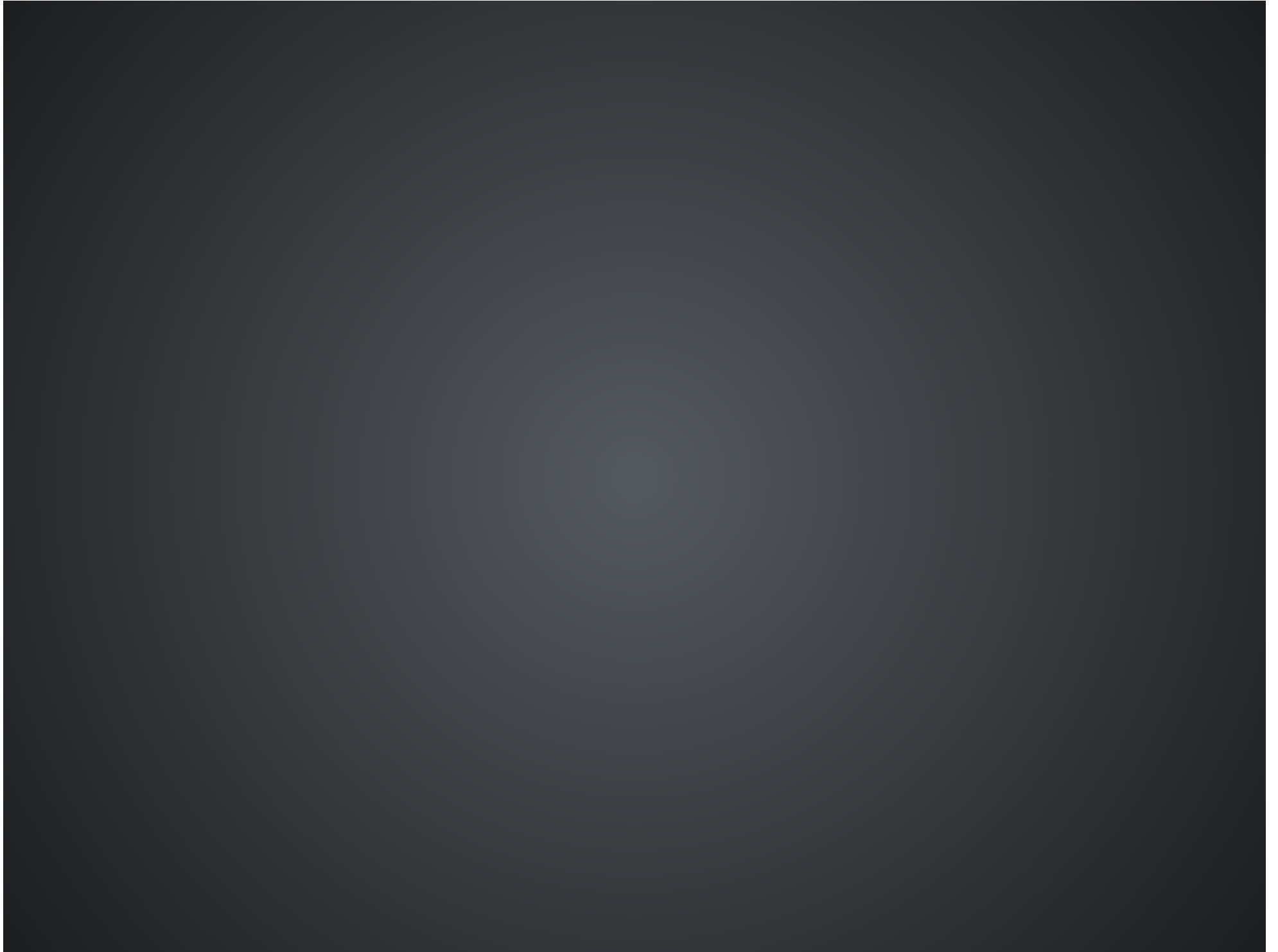
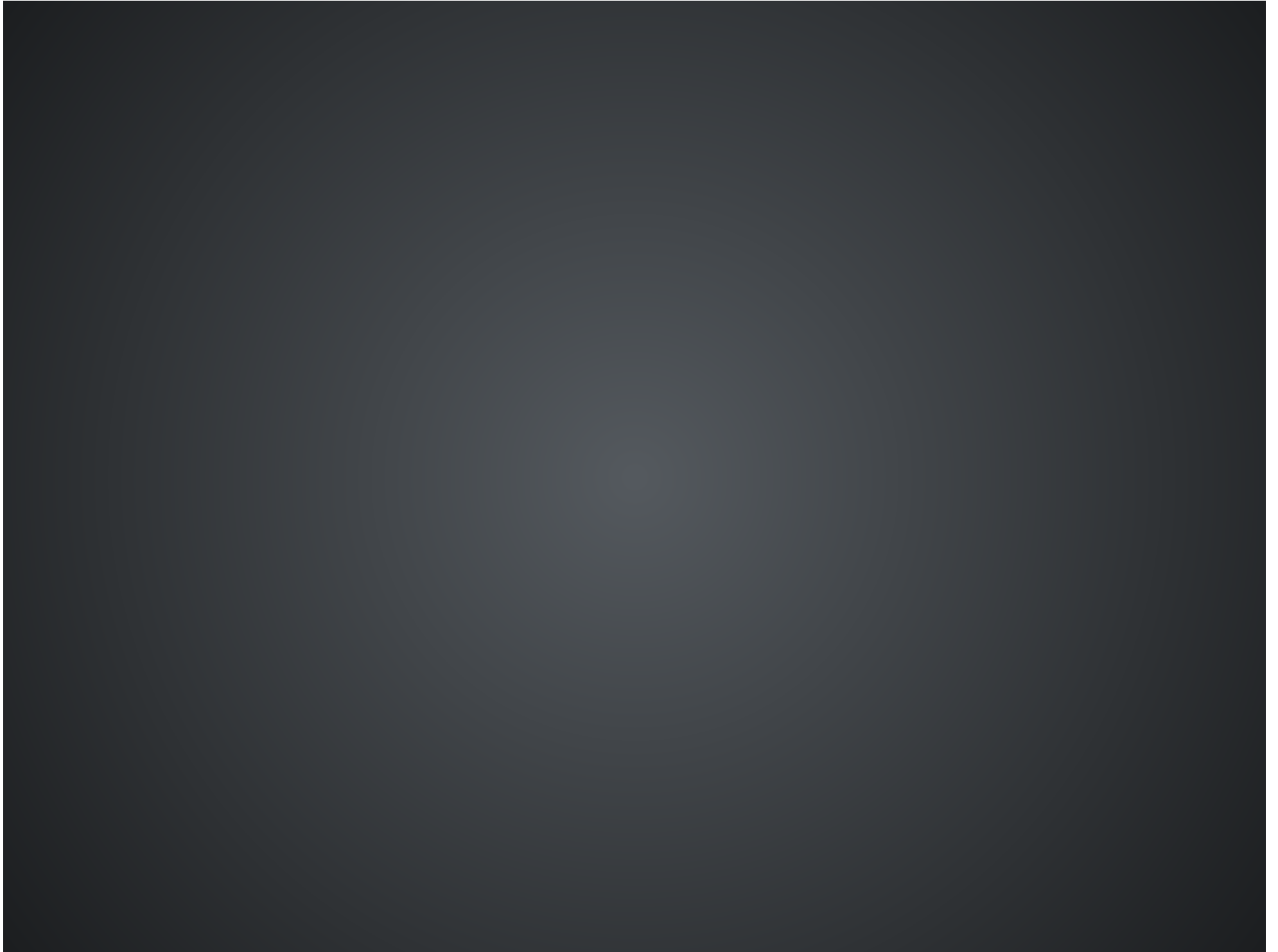


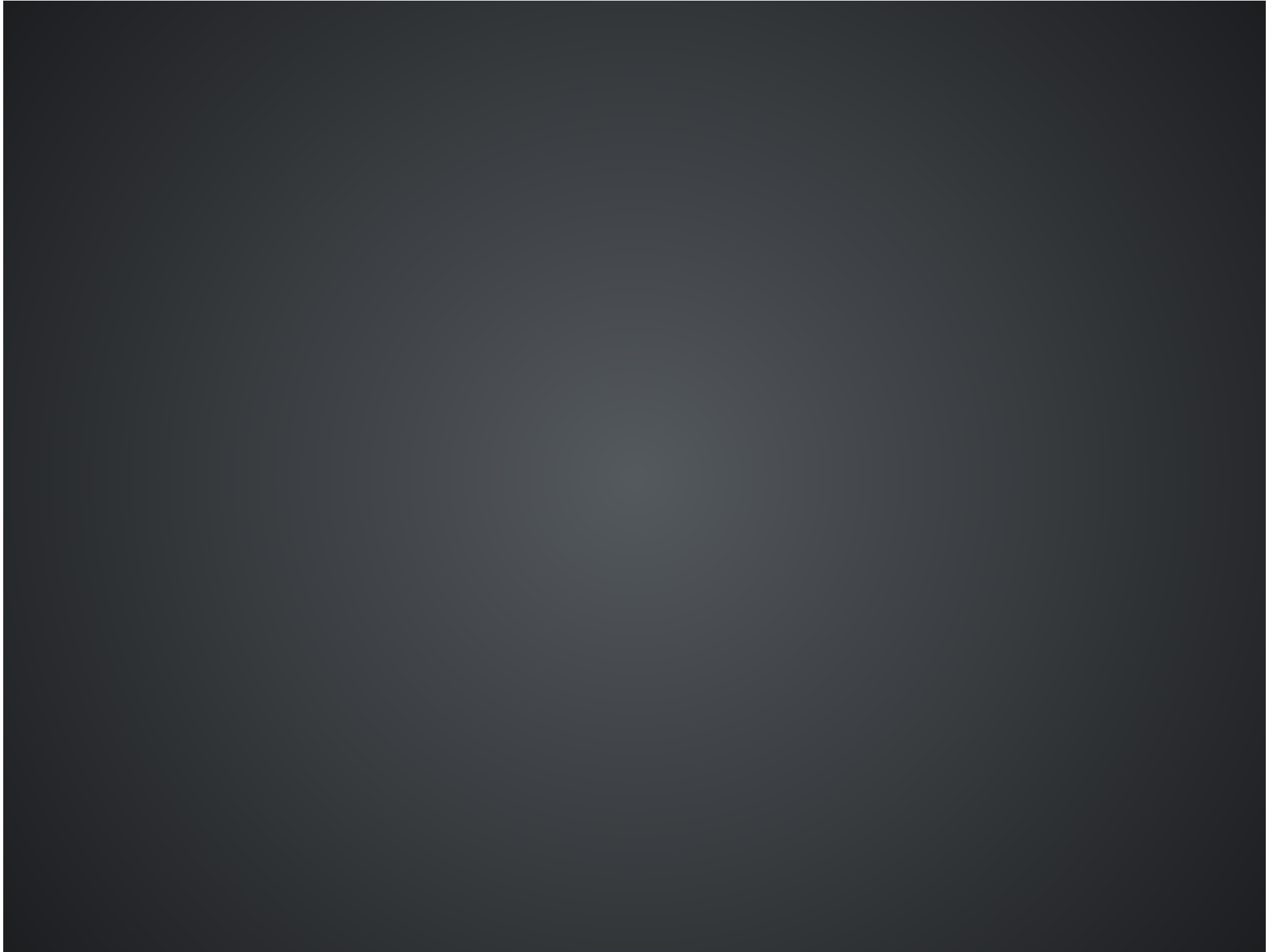
TESTING MOBILE WITH APPIUM



Fil Maj, Mobile R&D, Sauce Labs
@filmaj







TESTING, CONT.



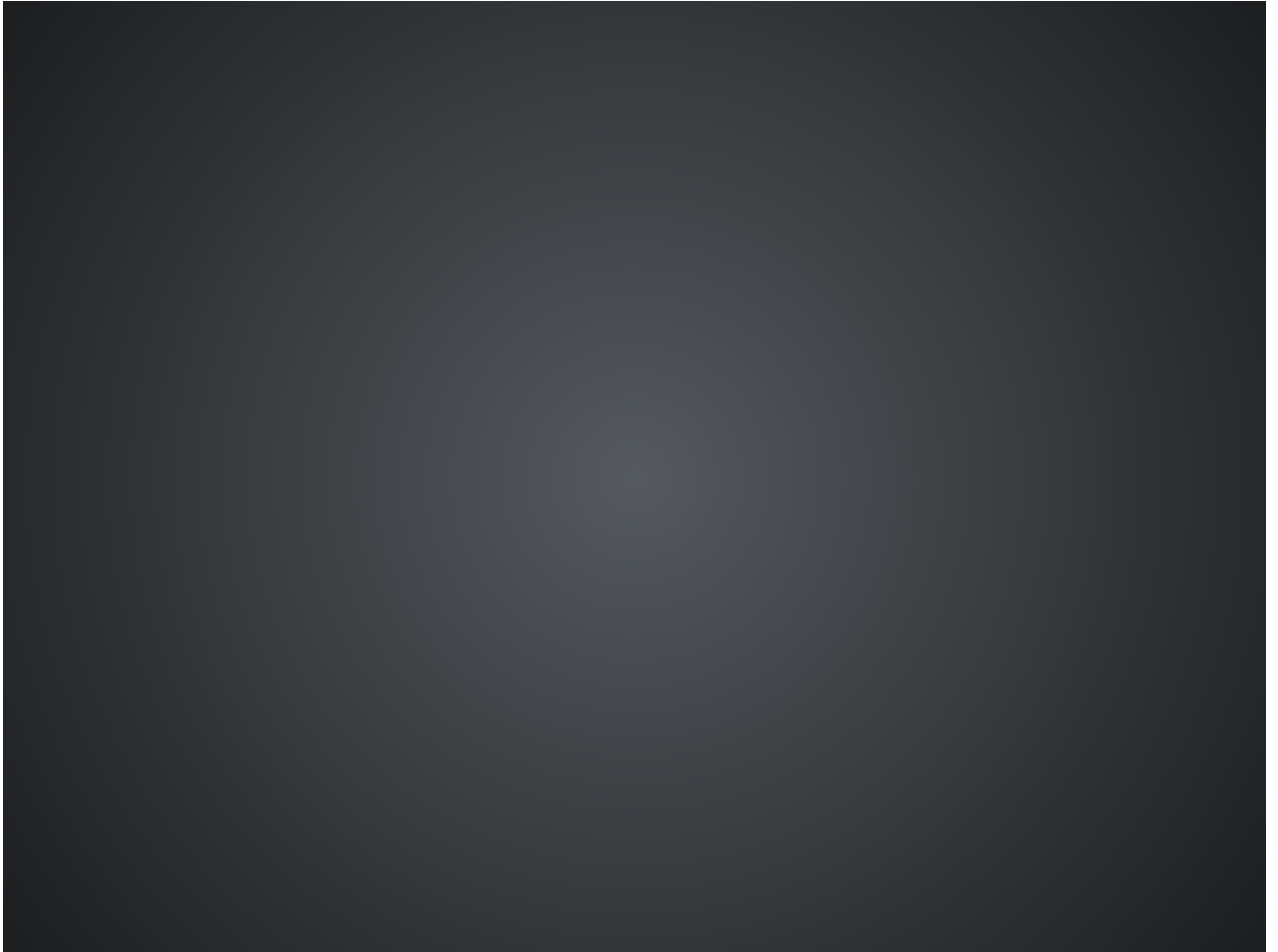
WHO CARES?

Biggest embarrassment as a programmer: regressions

Be disciplined at your craft: write a test for each bug

Run your tests after each change. This will prevent regressions.

Over time you grow a set of tests for your application



CONTINUOUS INTEGRATION



CI automates the testing process. You get continuous feedback as your codebase evolves - in real-time

TESTING DESKTOP WEBSITES



Established testing system is in place: Selenium.

TESTING MOBILE



Not so easy.

- "Rent" time from a device testing service
- Little to no automation (usually simulator based)
- Not much different from a monkey

SELENIUM CAN SAVE US

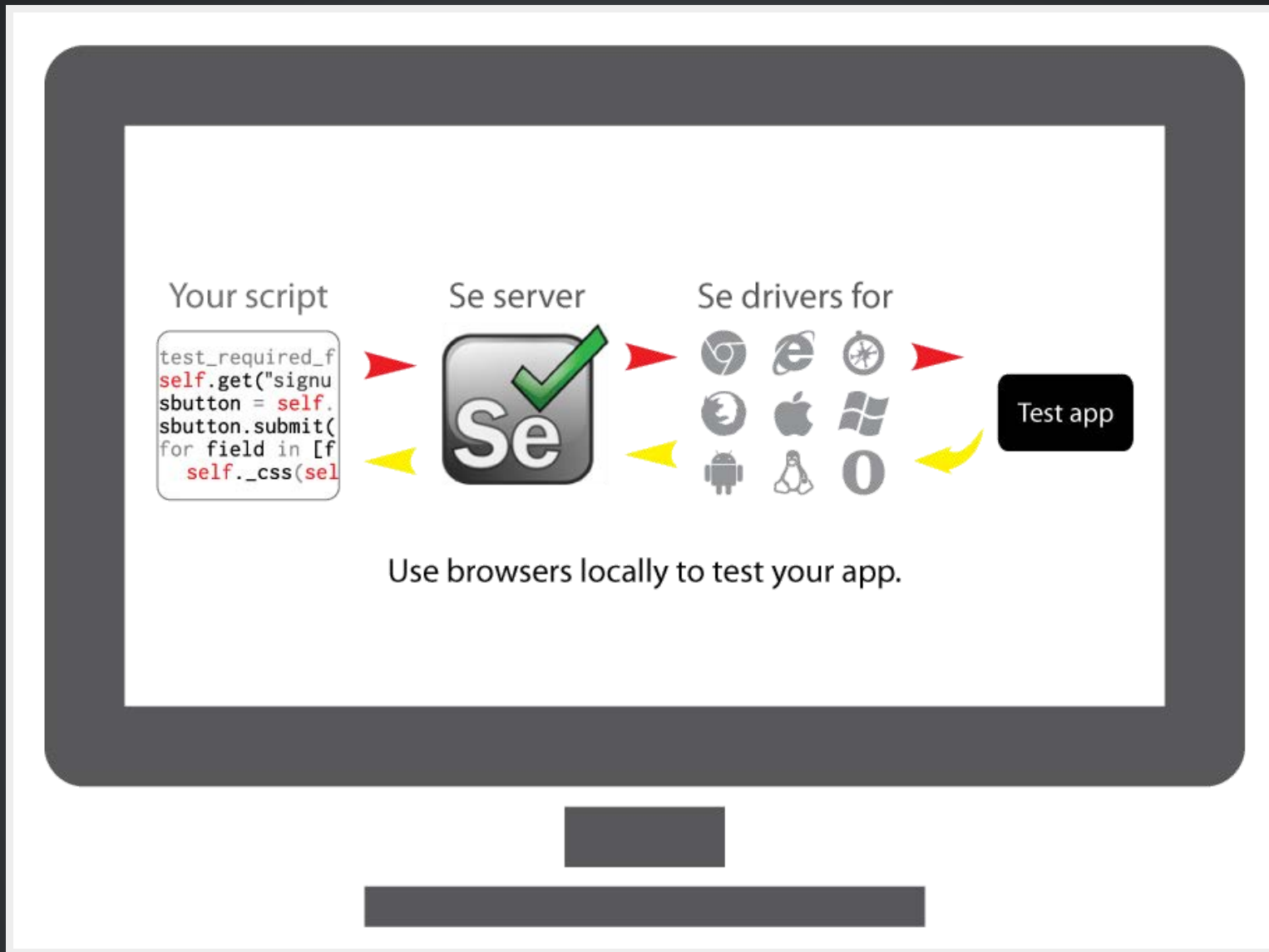


Open Source and Open Spec FTW

WHAT IS SELENIUM?

- Simply put: it is an HTTP API
- Developed out of a need to test websites
- Naturally this started on desktop

HOW DOES SELENIUM WORK?



SELENIUM TESTS

Scripts can be written in a variety of languages, as there are many "client" libraries

JavaScript, Ruby, Java, C, you name it.

SELENIUM ON MOBILE

APPIUM



<http://appium.io>

<http://github.com/appium/appium>

```
npm install -g appium
```


WHAT IS APPIUM?

An implementation of Selenium for mobile

Free and Open Source

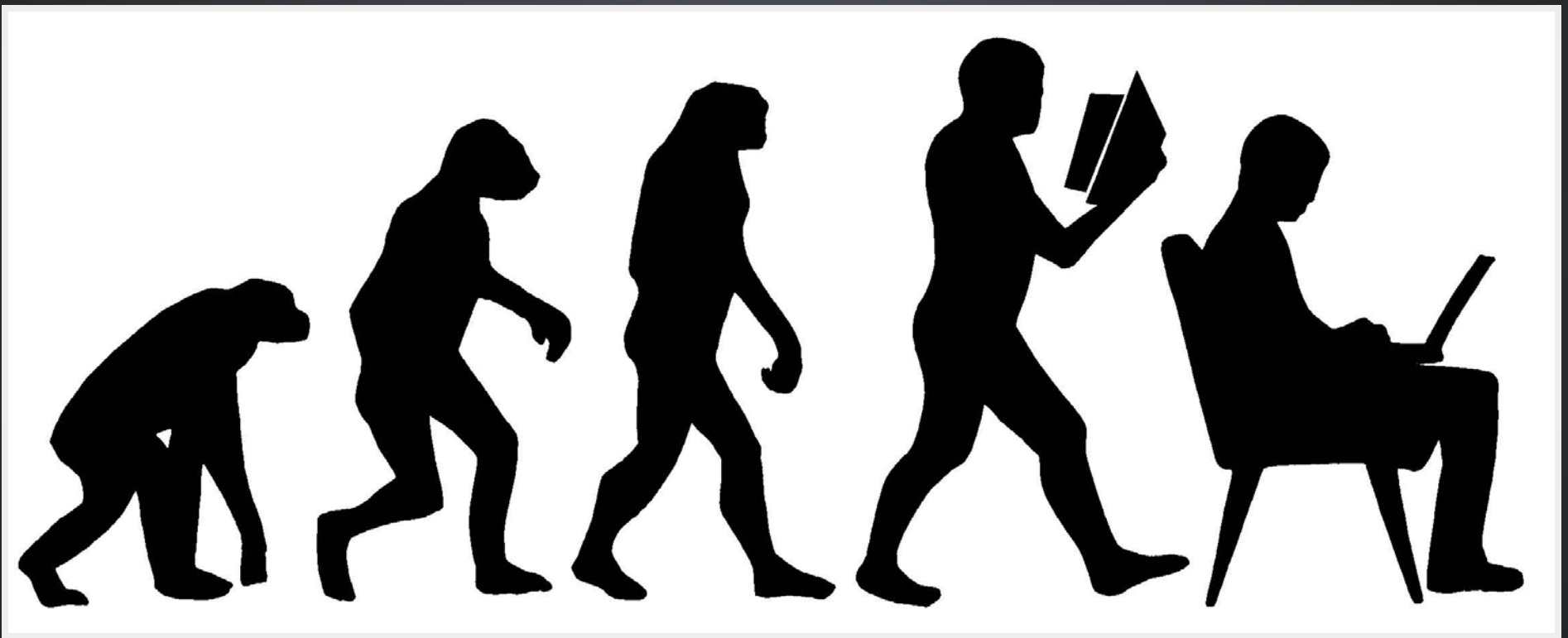
Supports Android, iOS and FirefoxOS

Works with browsers, hybrid applications, and native applications

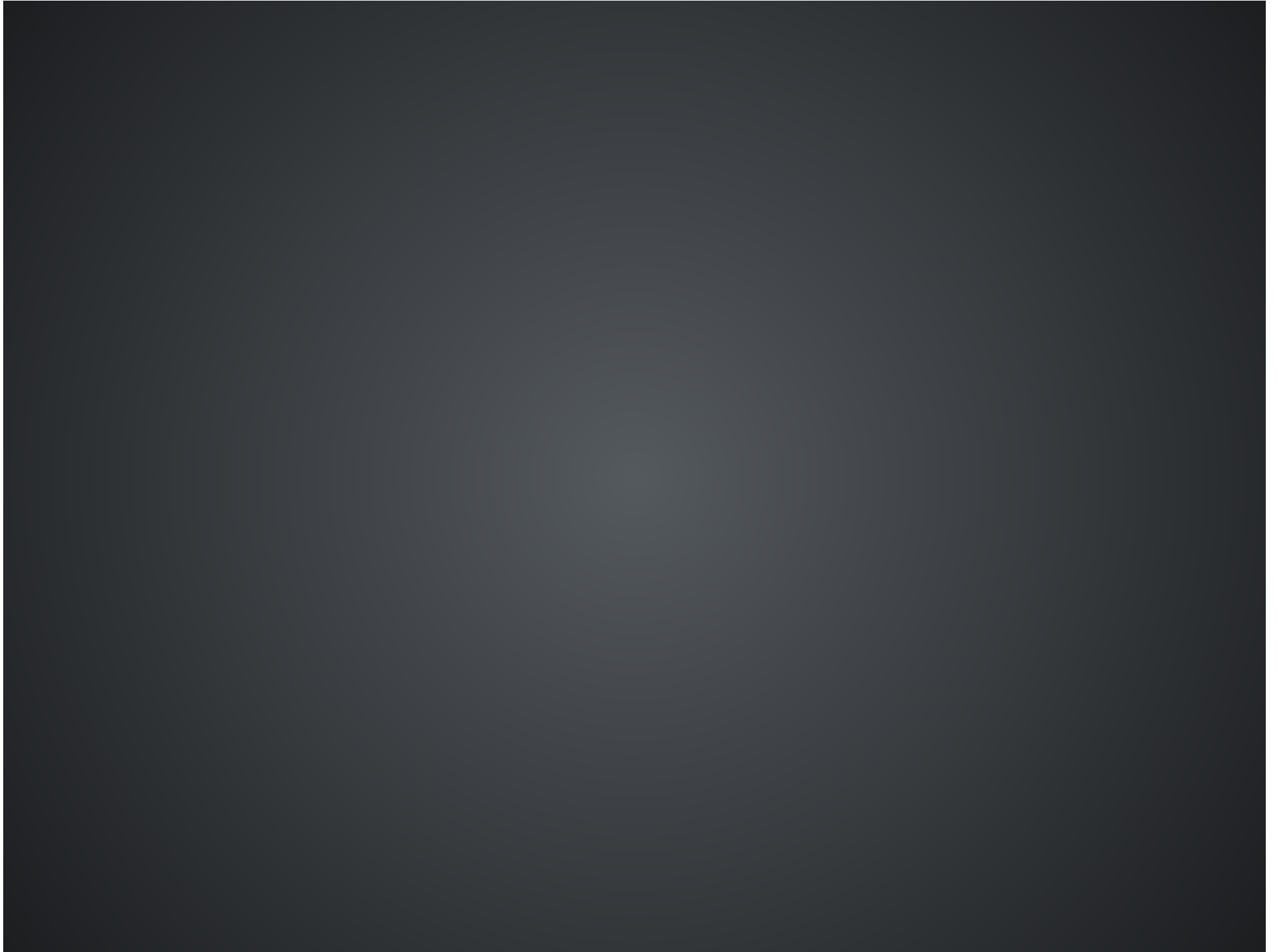
ALL TYPES OF APPS!?

That's right!

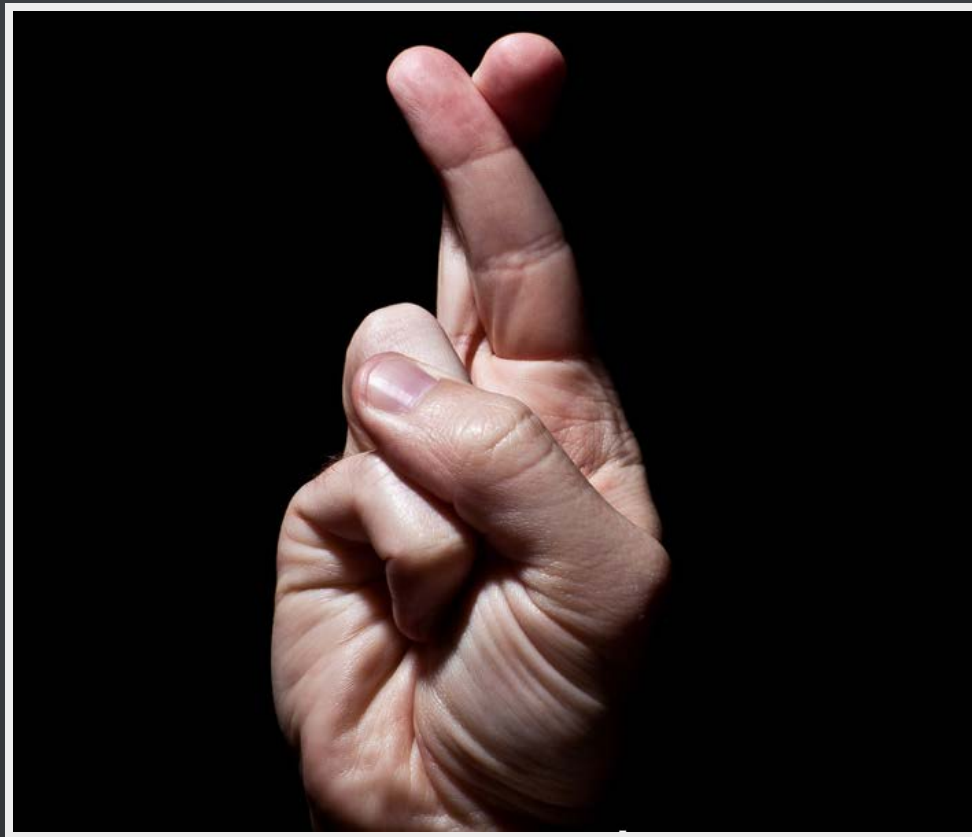
SELENIUM IS EVOLVING



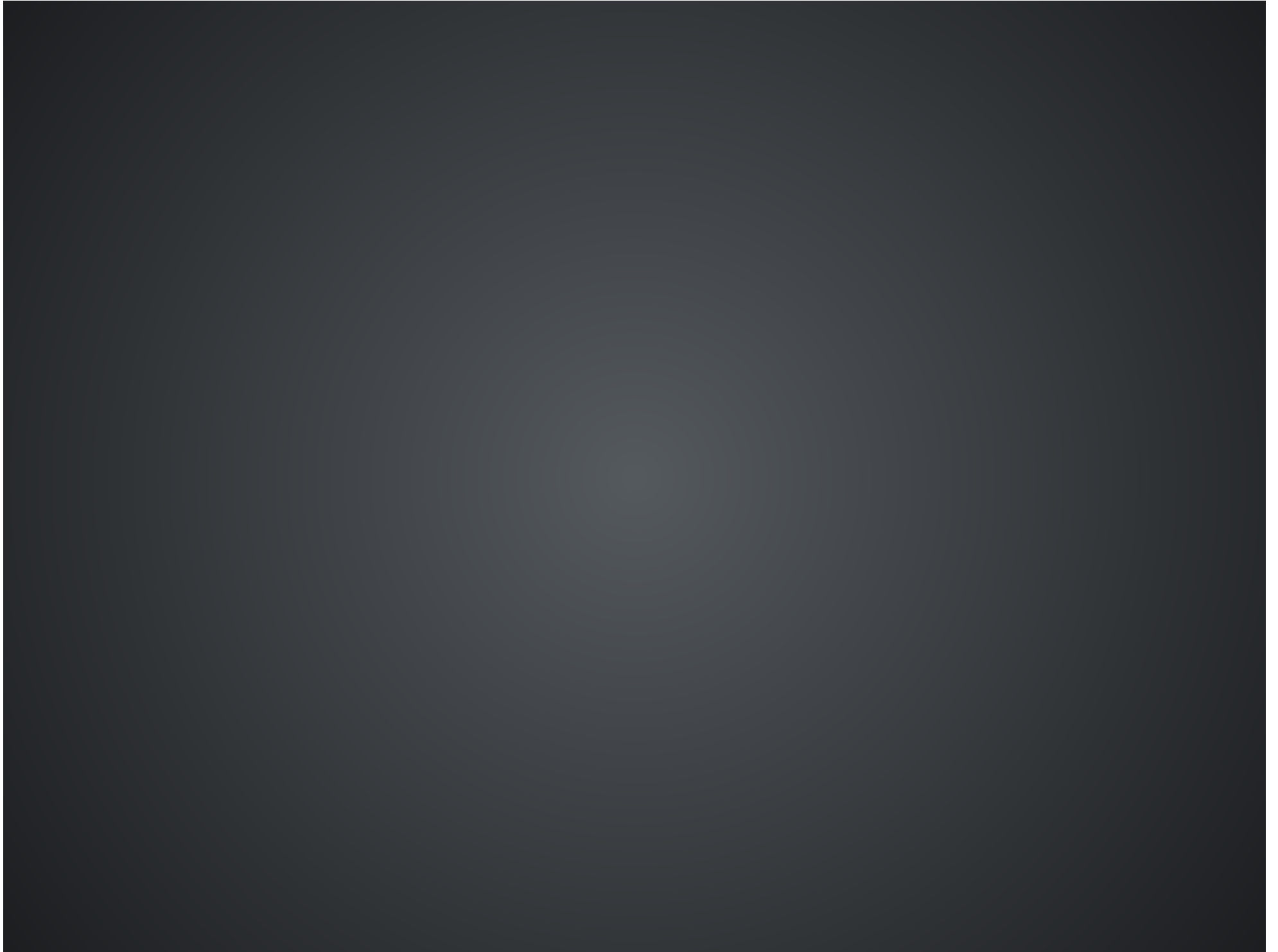
The spec is being pushed to address new automation needs
Different types of apps, different types of interactions



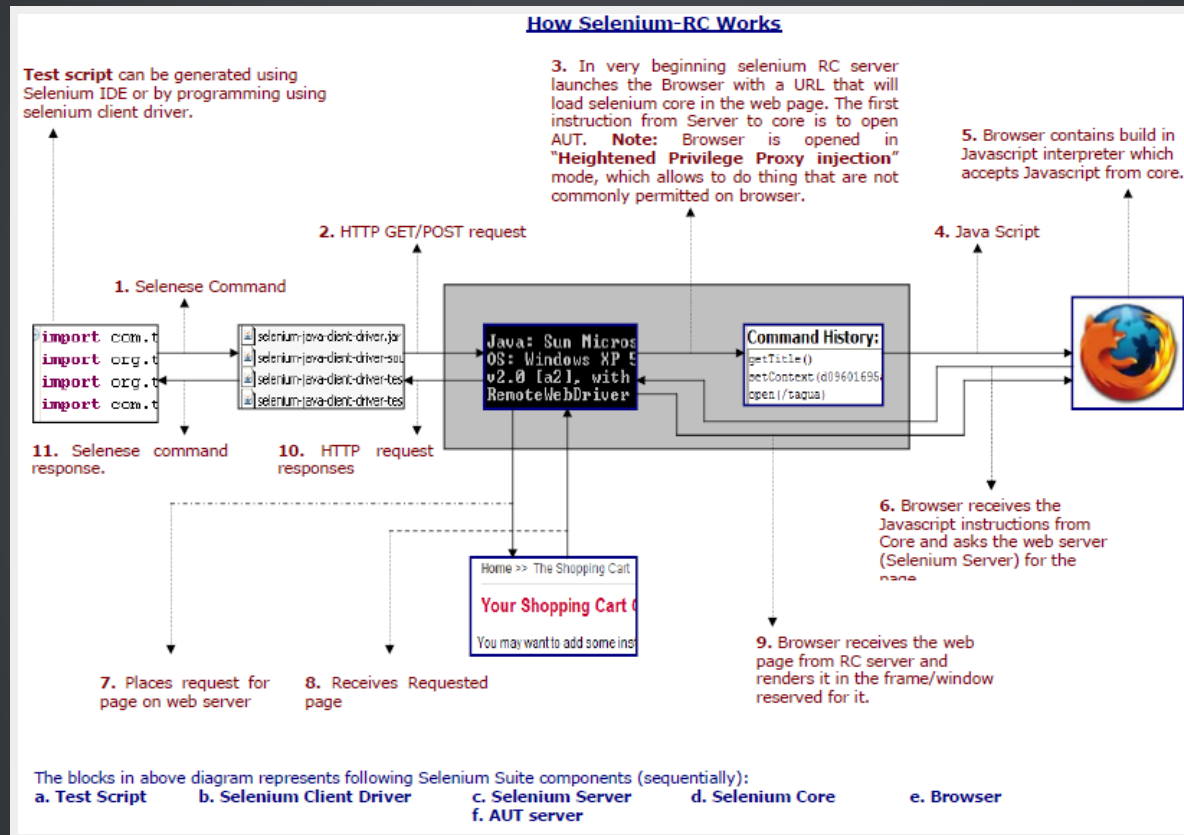
APPIUM DEMOS



<http://github.com/filmaj/appium-test>

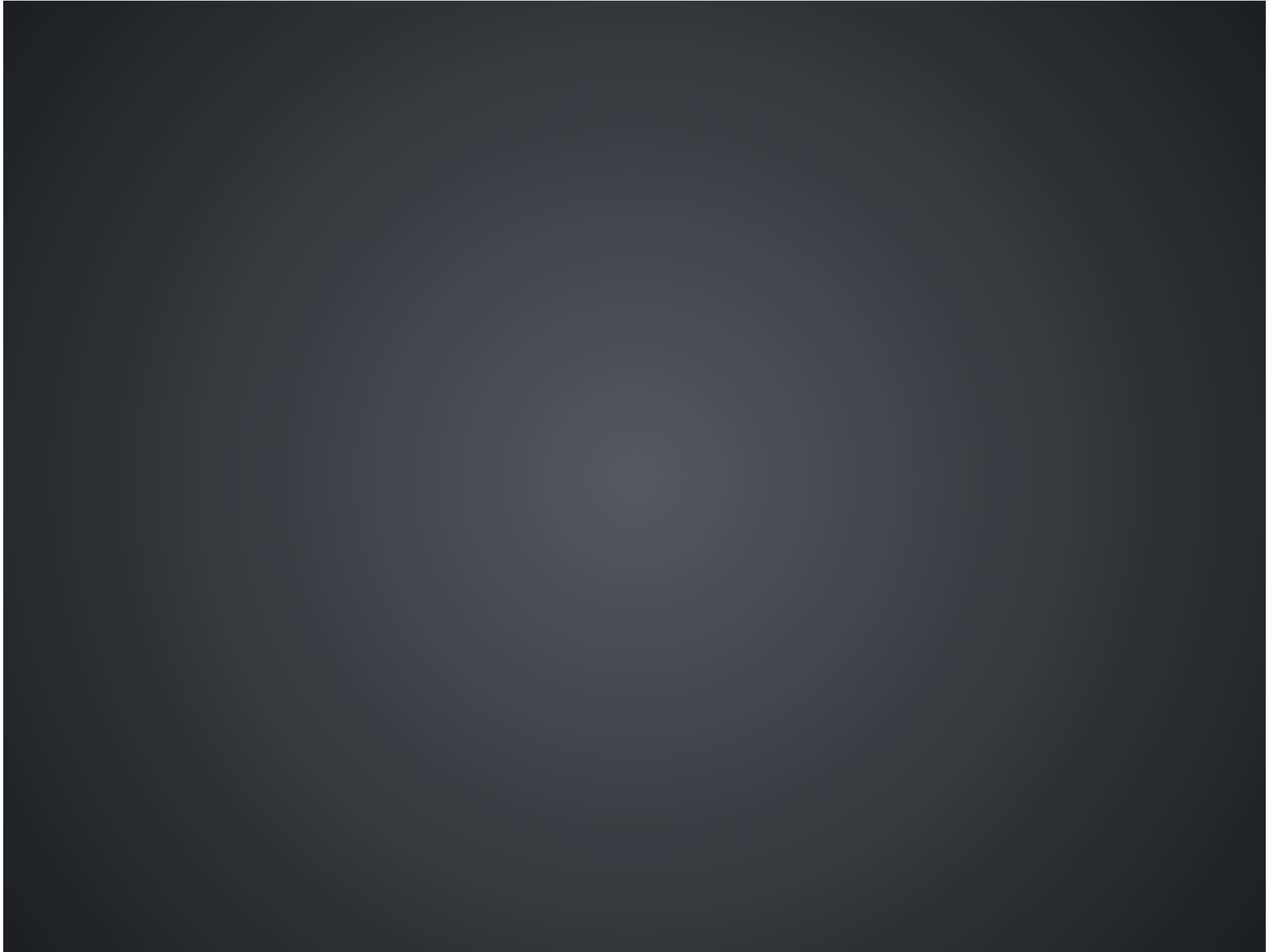


SELENIUM IS HARD



Lots of moving parts

Infrastructure is hard: Windows, Mac, Linux, and now mobile...



SAUCE LABS TO THE RESCUE!



Let us handle the infrastructure: over 300 OS/browser combos,
more being added every week

You treat Sauce Labs like just another Selenium server endpoint