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FOSDEM 17

Future of Mobile Automation, Appium Steals it

Agenda

- Mobile Element Inspectors
- Need for Speed
- Handling Multiple Simulators
- Wearables/tvOS Support
- StarDriver Enterprise
- Mobile First to AI First

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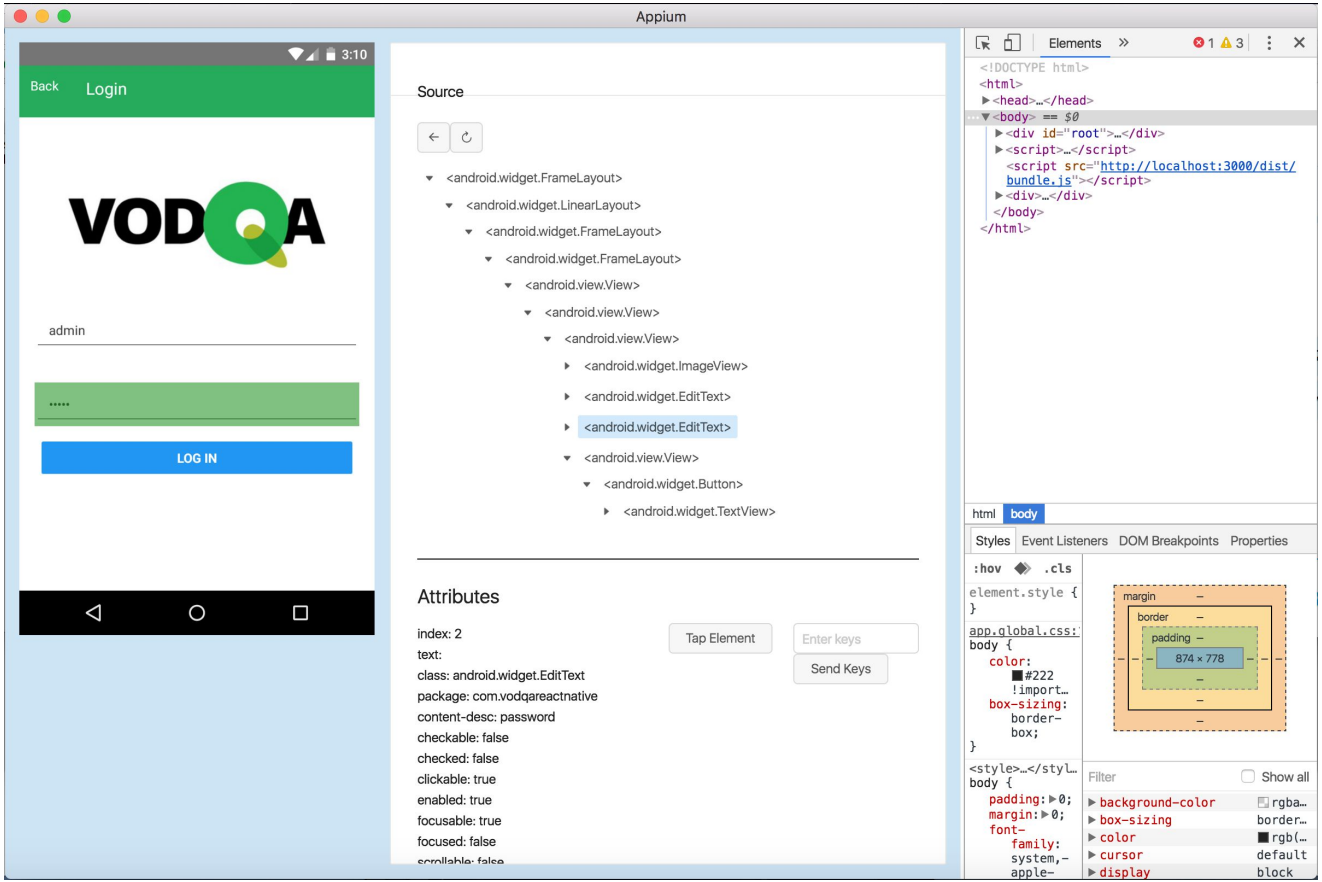
Inspectors

Inspectors

- WebDriverAgent Inspector
  - Support only for iOS 9.4+ devices
  - Not for Android Apps
- UIAutomatorViewer
  - Work’s perfectly fine for Android Platform
  - Doesn’t support Multi Window searches for API21+
- Macaca Inspector
  - Inspects both iOS and Android Apps
  - Doesn’t render fields in UIAutomation format
- Appium Desktop Inspector
  - Still in development
  - Supports both iOS and Android Apps
  - Integrated with Appium Server
  - Interactive GUI

Appium Desktop Inspector



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NEED FOR SPEED™
NO LIMITS
Drive Faster

NFS

- Run Tests Faster than before
  - Dockerize Android Environment to scale up and scale down emulators in seconds
  - Speed up tests on iOS Platform by improving locator finding strategies, etc
  - Parallel execution of tests on iOS sims
  - Multiple server sessions from single node instance

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Handle Multiple Sims

Handling Multiple Simulators

- Existing Limitations:
  - Xcode supports only one simulator at a time
- Existing Solutions which Appium evaluates:
  - **Project Hydra** - Python Wrapper to run tests in multiple sims parallely
    - Doesn’t have access to Core Sim APIs
    - Depends on less active Facebook’s XCtool Project
  - **FBSimulatorControl**
    - OS X Library for managing and manipulating iOS Sims
  - **BluePill**
    - iOS test runner to run tests on multiple simulators parallely

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Wearables/tvOS Support

Wearables/tvOS Support

- Android Wear Apps are possible to test using many existing frameworks
- Apple Watch and tvOS apps are still a concern for many
- Facebook’s WebDriverAgent works with tvOS and OSX apps but not supported yet.
- Cross Platform video apps developed using you.i Engine can be automated using Appium for tvOS & Android TV
    - https://github.com/YOU-i-Labs/appium-youiengine-driver

Big Buck Bunny
Big Buck Bunny
Caminandes: Llama Drama
Caminandes: Llama Drama

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Move towards *Driver Enterprise

*Automate Anything & Everything - *driver*

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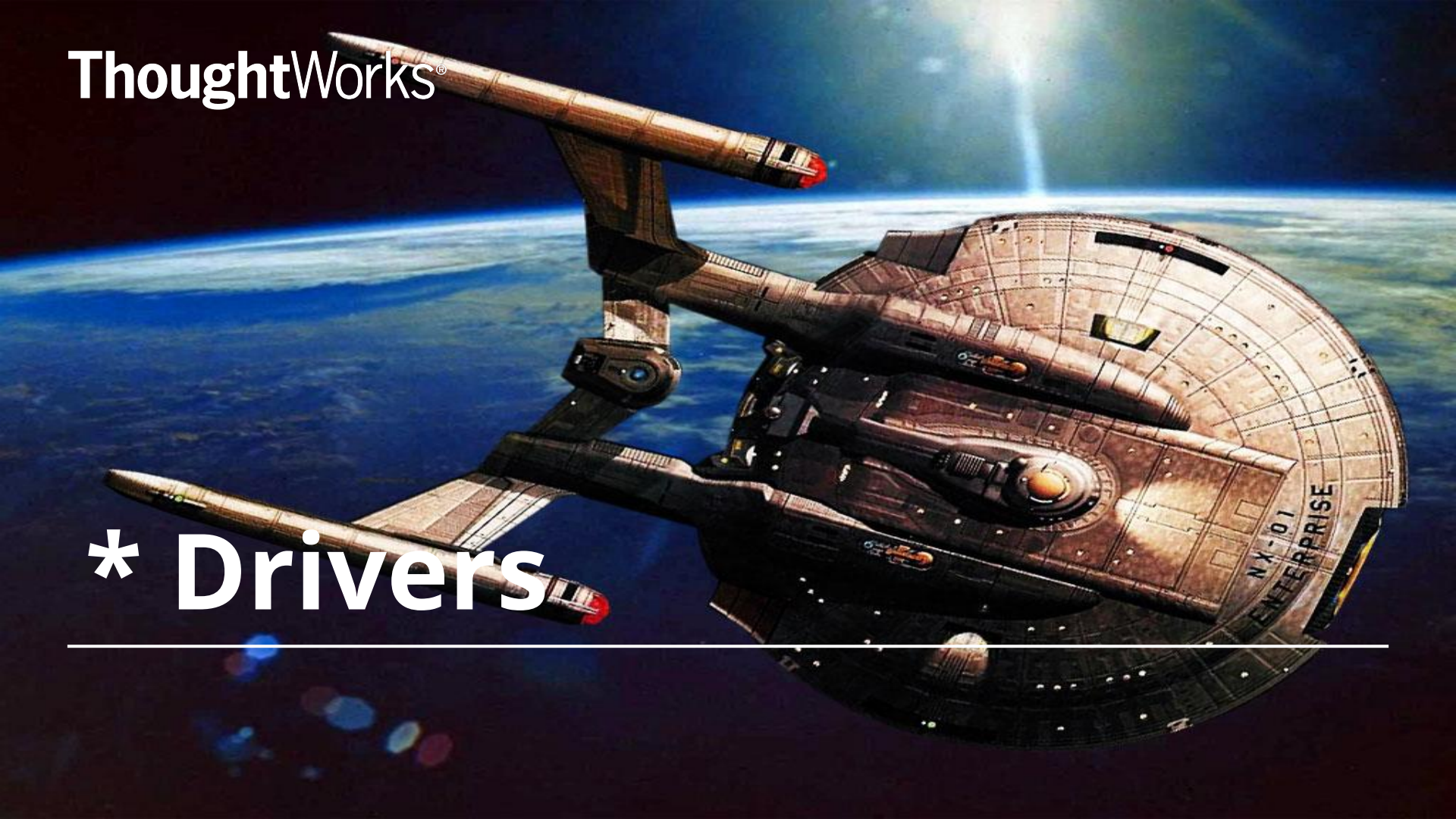

* Drivers

* Drivers

- Enable Automation for everything
- Generalise W3C Spec
- Become locked in an external cycle of writing code to automate new platforms while convincing vendors of old platforms to adopt the standard
- Appium will be a standard interface for array of *Drivers
- *Drivers will be a node wrapper written on top of any existing technical solutions to automate any crazy things.
- *Drivers might be watchDriver, IOTDriver, UMPDriver etc

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tv
INTERNET of THINGS

THANK YOU

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