

# Software Engineering Methodologies

## Lecture 8 - WebDriver

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# WebDriver

- Web browser remote control
  - for Firefox and Chrome
    - (and lots of other devices)
  - For lots of languages
    - (especially Python!)
  - For lots of uses
    - Testing
    - Automation
    - Prototyping

# Basic Use

- Import the software
  - `from selenium import webdriver`
- Open the driver
  - `driver = webdriver.Chrome()`
- Send commands to the driver
  - (In a minute...)
- Close the driver
  - `driver.close()`
  - `driver.quit()`

# Finding Elements

- Find by ID
  - `element = driver.find_element_by_id("my-id")`
- Find by text
  - `element = driver.find_element_by_link_text("OK")`
- Find by tag
  - `table.find_elements_by_tag_name("th")`
- Find by xpath
  - `element = driver.find_element_by_xpath(...)`

# Sending Input

- Mouse clicks...
  - `element.click()`
- Sending keypresses...
  - `element.send_keys("some text")`
- Clearing entries
  - `element.clear()`
- Submitting forms...
  - `element.submit()` ← moves up the DOM

# Alerts

- Verify alert text
  - `Alert(driver).text`
- Accept alert
  - `Alert(driver).accept()`
- Dismiss alert
  - `Alert(driver).dismiss()`
- Enter text
  - `Alert(driver).send_keys()`

Demo Time

# Resources

- <http://selenium-python.readthedocs.org/en/latest/getting-started.html>
- <http://selenium-python.readthedocs.org/en/latest/index.html>
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