Polymer Project: Test Your Elements Summary

# Pre-requisites:

* Polymer Project V 2.0 - <https://www.polymer-project.org/2.0/start/>
  + Polymer CLI - all-in-one command-line interface that covers the vast majority of Polymer development tasks, including unit testing

# Web Component Tester library

It is an end-to-end testing environment built by the Polymer team. It enables the tester to test elements,

* Locally in any browser
* Remotely via Sauce Labs

It is built on top of the following tools and some others,

* [Mocha](https://mochajs.org/) - a test framework, with BDD and TDD support.
* [Chai](http://chaijs.com/) – for assertion types.
* [Sinon](http://sinonjs.org/) - for spies, stubs, and mocks.
* [Selenium](http://www.seleniumhq.org/) - for testing against multiple browsers.
* [Accessibility Developer Tools](https://github.com/GoogleChrome/accessibility-developer-tools) – for “accessibility audits”.
* [Istanbul](https://istanbul.js.org/) – Code coverage reporter

(Accessibility audits - The purpose of an Accessibility Audit is to establish how well a particular environment performs in terms of access and ease of use by a wide range of potential users)

Proxy Config – set up http\_proxy and https\_proxy env variables

<https://stackoverflow.com/questions/39989175/polymer-webcomponent-tester-wct-xvfb-unable-to-connect-to-selenium>

<https://saucelabs.com/blog/polymer-web-component-unit-testing>

plugin “local” not found: install it as an npm package

for slow issue set env LAUNCHPAD\_BROWSERS = ['chrome', 'firefox', 'ie']

//npm config set proxy “<http://isurud:Diregraph-123@lg-spmb-wcg01.lseg.stockex.local:8082>”

//npm config set http-proxy “<http://isurud:Diregraph-123@lg-spmb-wcg01.lseg.stockex.local:8082>”

https://medium.com/google-developer-experts/polymer-testing-tips-f217ba94a64