



adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
BERLIN, 25-27 SEPTEMBER 2017

Responsive Website Testing with Galen and Selenium

Andres Pegam, pro!vision GmbH

About the Speaker

- pro!vision since 2008
- AEM dev, QE dev
- Galenium lead



PRO!VISION
SOFTWARE CRAFTSMANSHIP

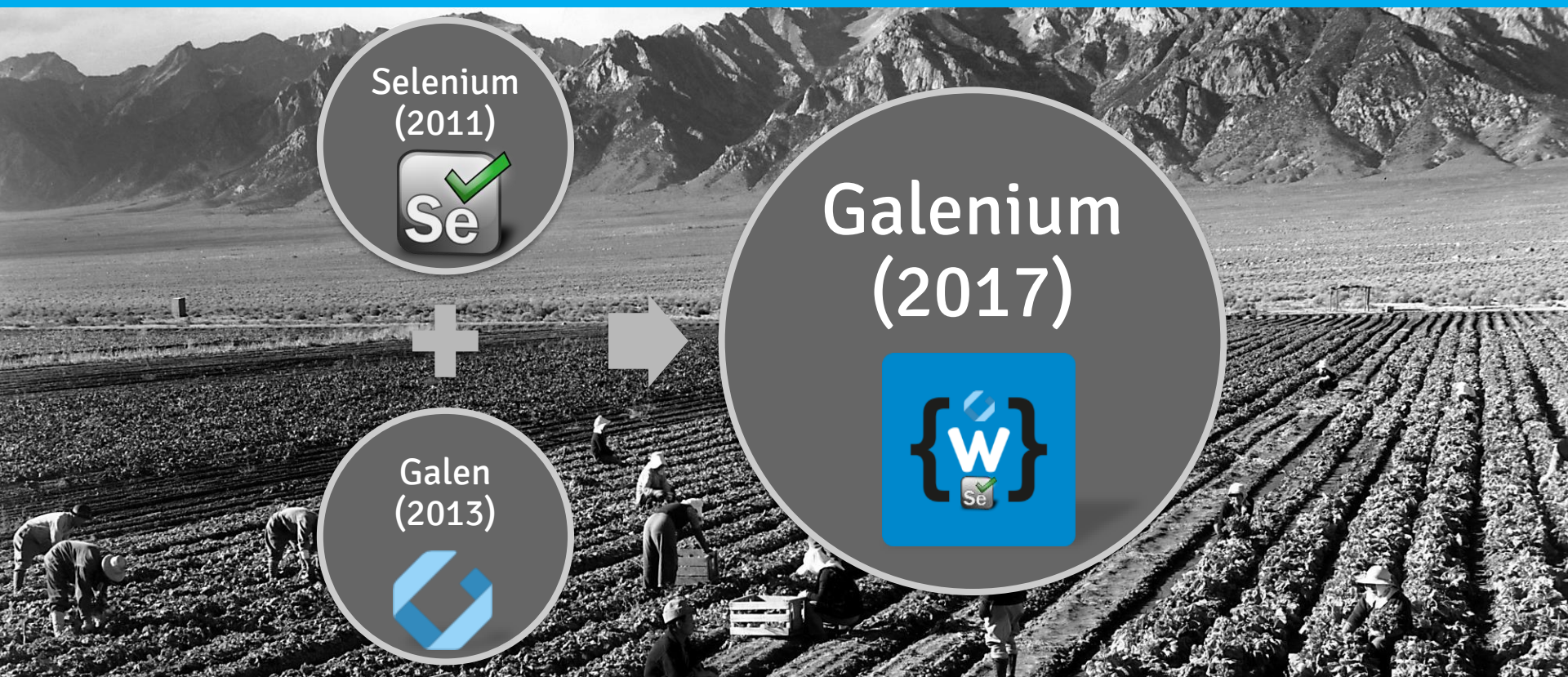
<https://www.pro-vision.de>



Andres Pegam

The History

The History of Galenium



The History of Galenium

Many projects

Volkswagen

Bentley

AMG

Others

Brand

DBS

.COM

CC

Brand

...

The History of Galenium

Many developers

Martin Wehner

Dirk
Tschentscher

Andres Pegam

Others

Selenium
integration

Multi-
threaded
WebDriver
handling

Galen
integration

invented
the name
“Galenium”

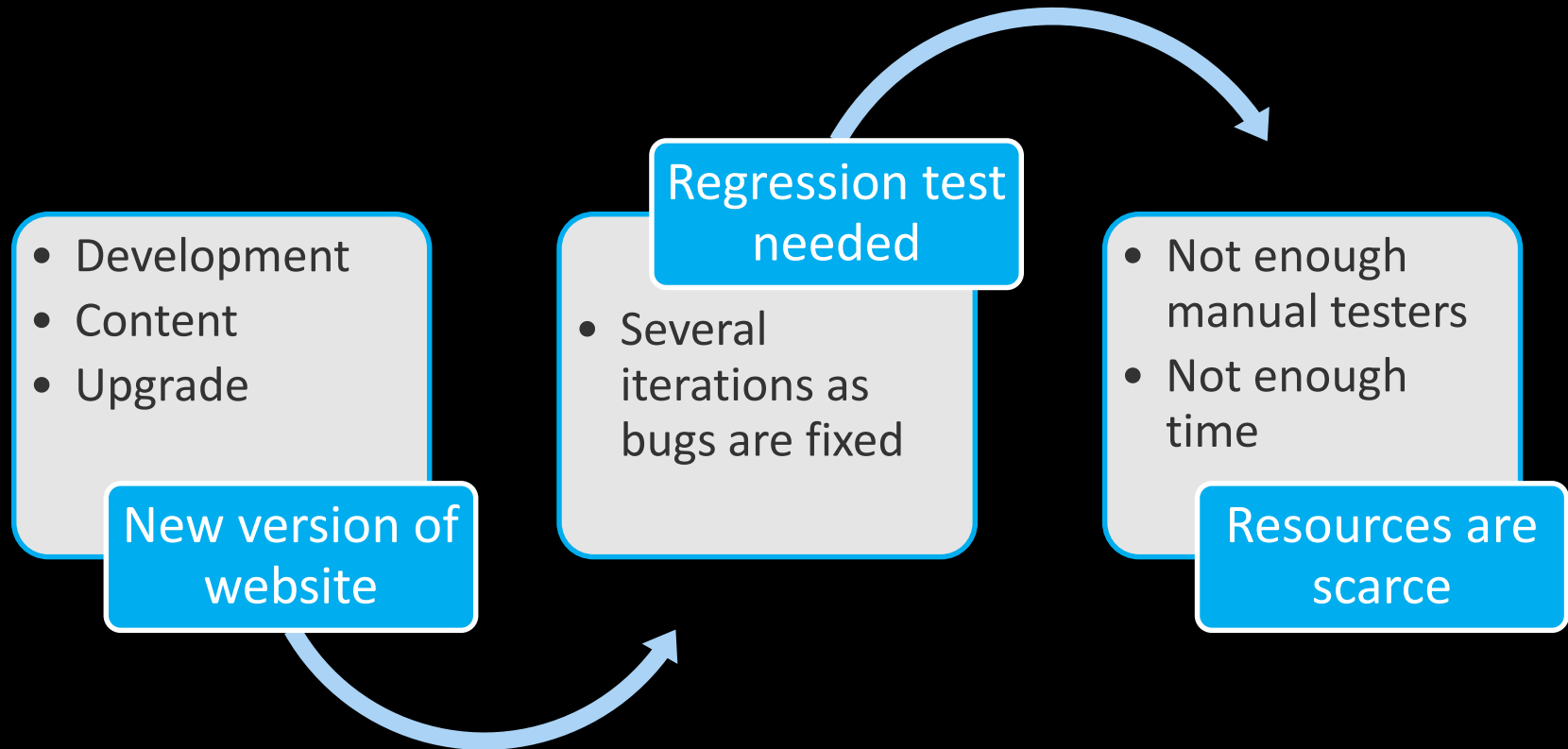
Maven
integration

Open
sourced on
GitHub

...

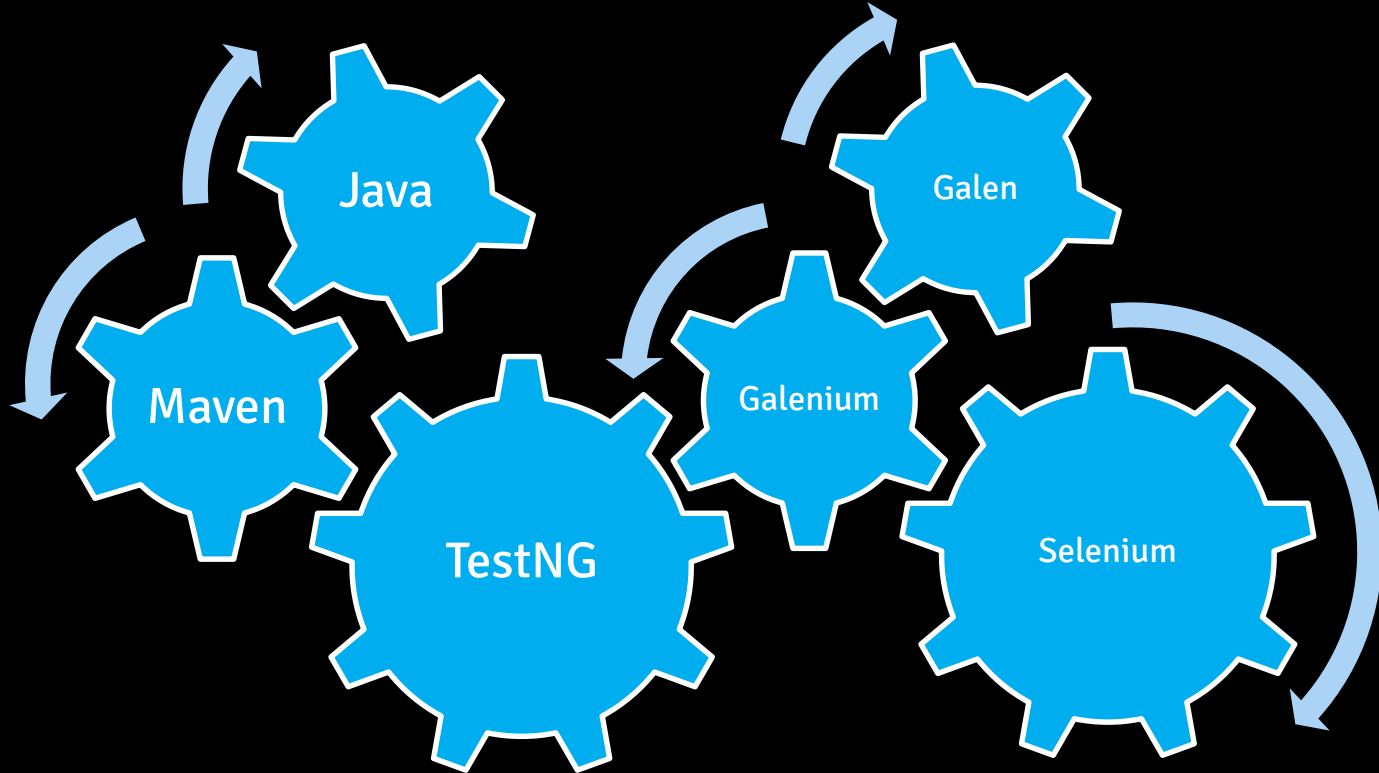
The Challenge

The Challenge



The Players

The Players





Galen

- Layout oriented specifications
 - Constraints, Image Comparison
- Uses Selenium to drive browsers
 - Interaction in JS with interface to Selenium
- Still relatively unknown
 - Web: <http://galenframework.com>



Objects

Via CSS
selectors

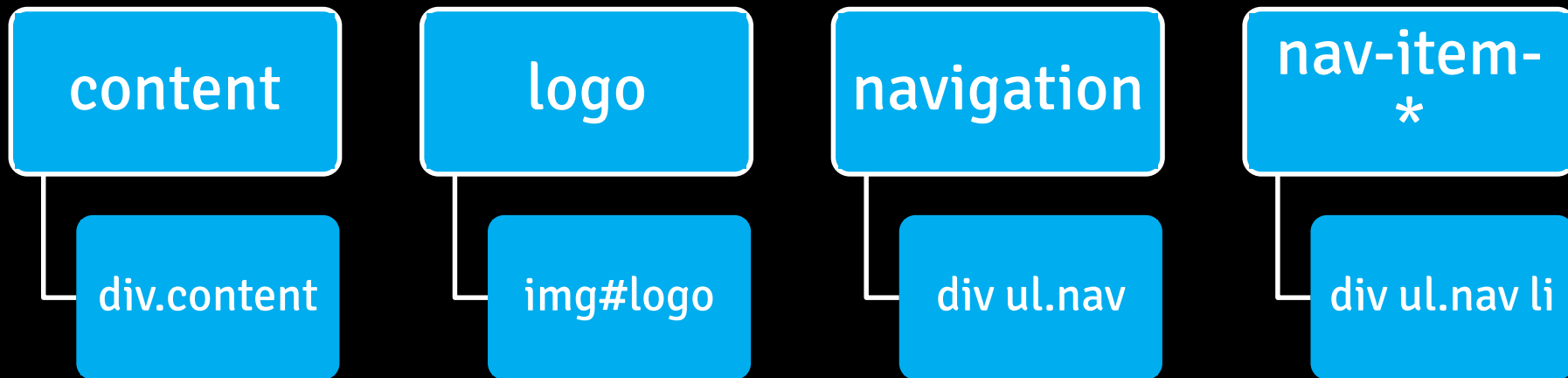
Specs

Constraints
for objects

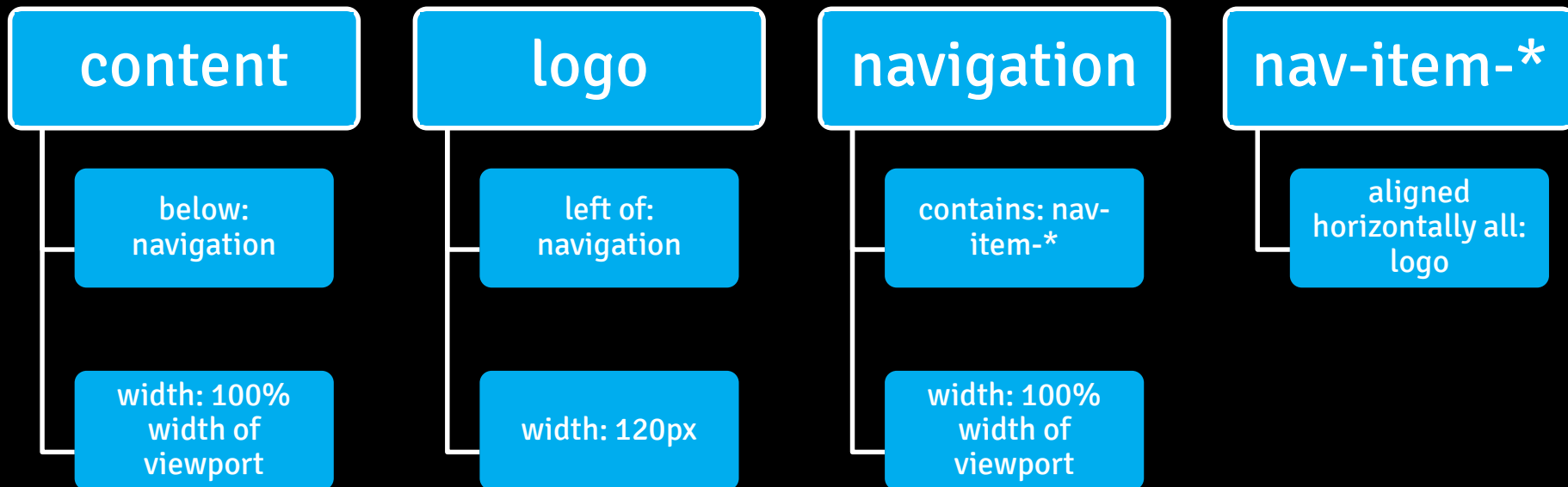
Suites

Test cases
based on
specs

Example Object Definitions:



Example Specs:



More

- Image Comparison
- JS tests
- Variables
- Warnings

Galen

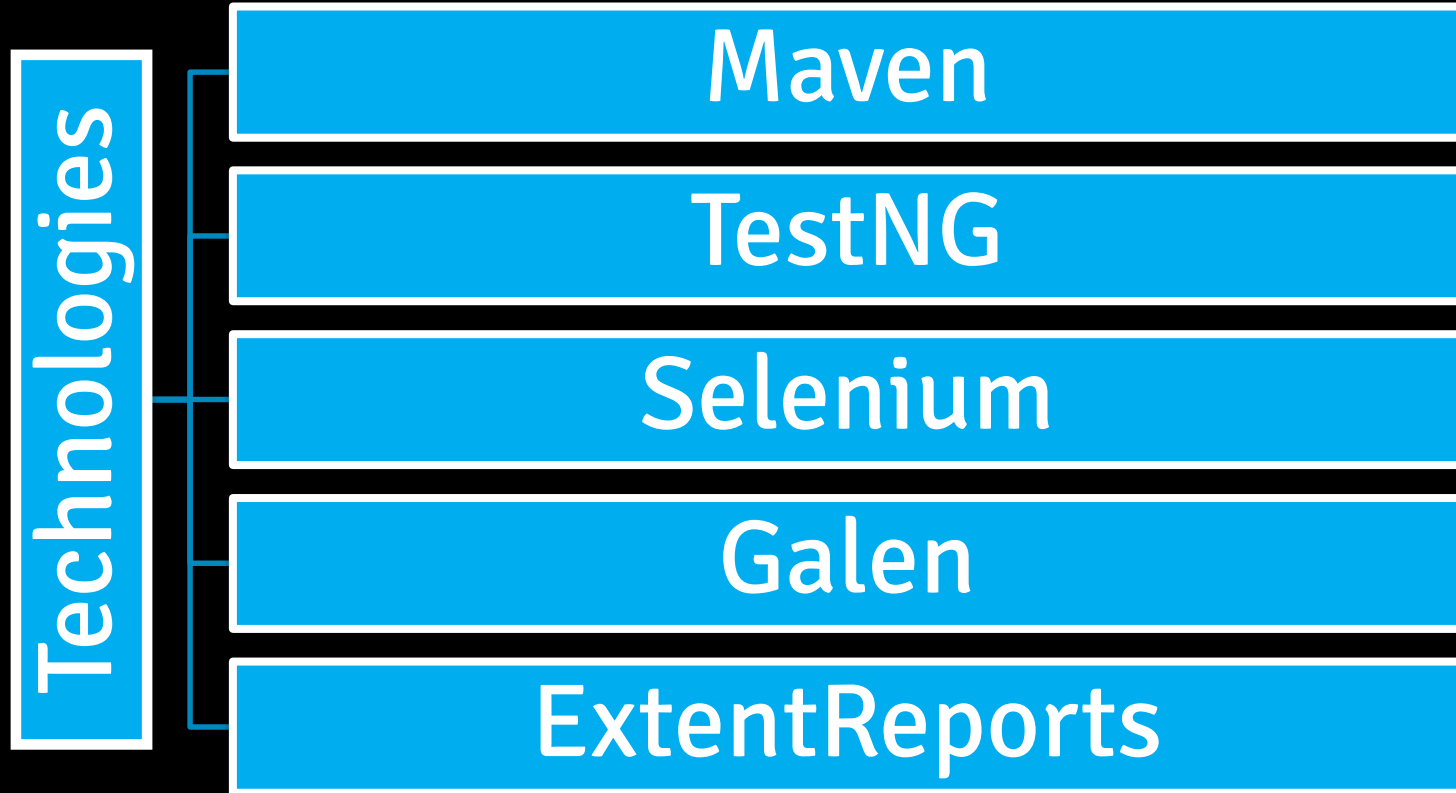
- Ranges
- Tagging
- Groups
- Object Corrections

Features

- Control loops
- Switches
- Custom rules

Galenium

Galenium - Technologies



Galenium - Parts

Galenium Context

- Access data without inheritance
- Thread safety

Selectors

- Define objects
- Use in Galen and Selenium

The Parts

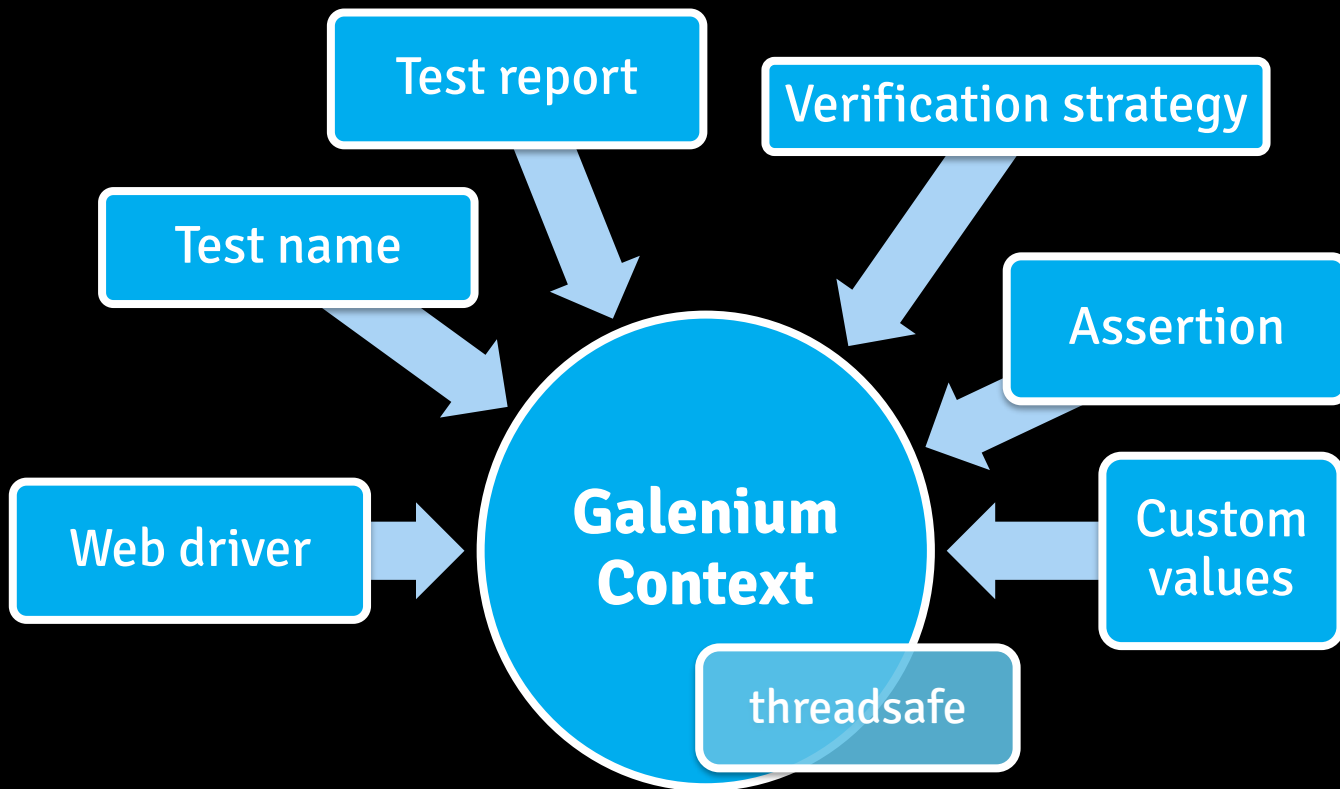
Differences and Sampling

- Image Comparison
- Text Comparison

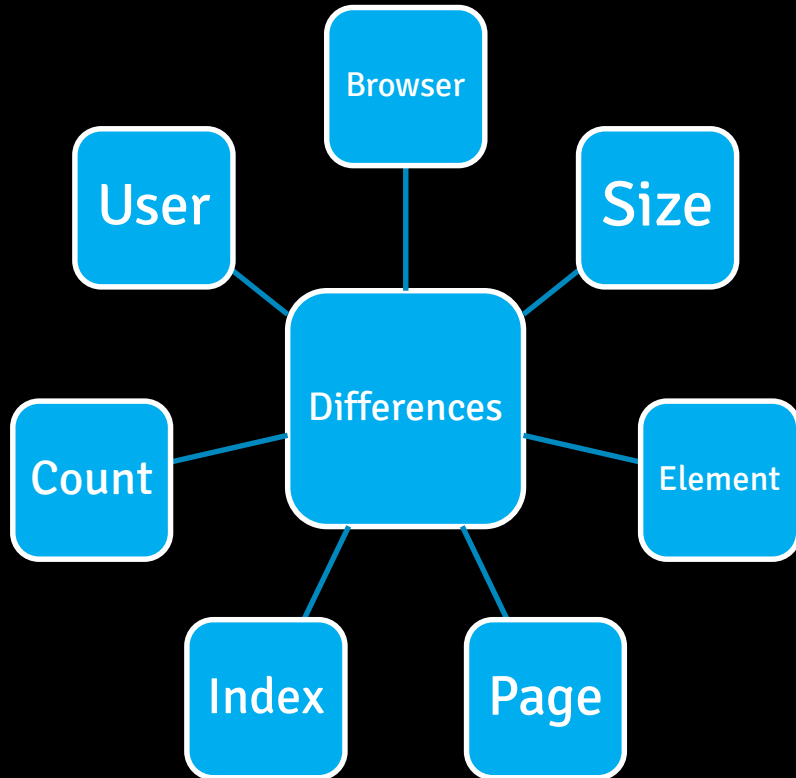
Reporting

- Test case centric
- Logging and Tagging

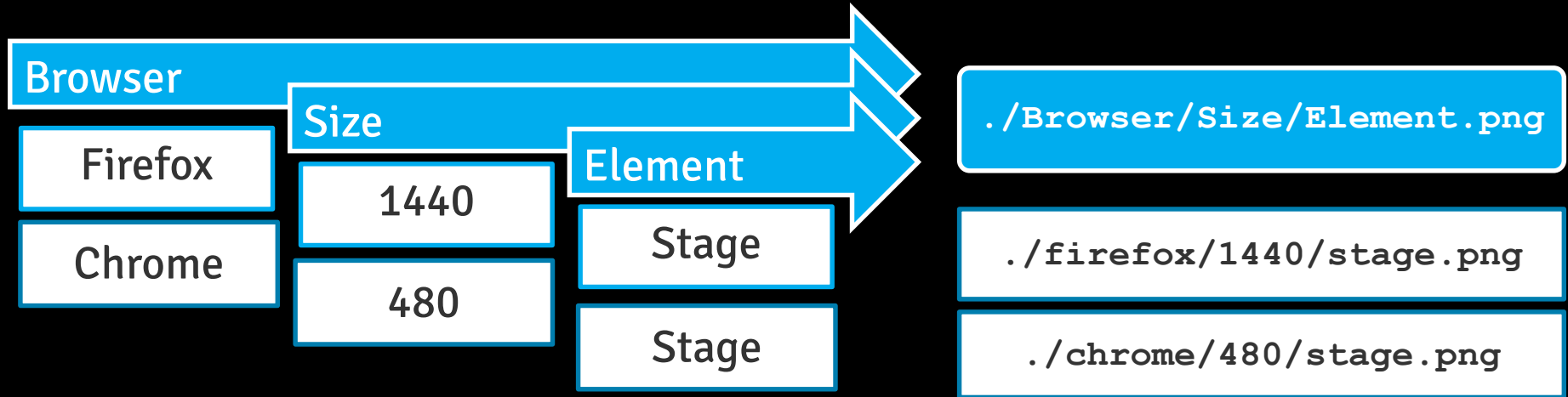
Galenium - Context



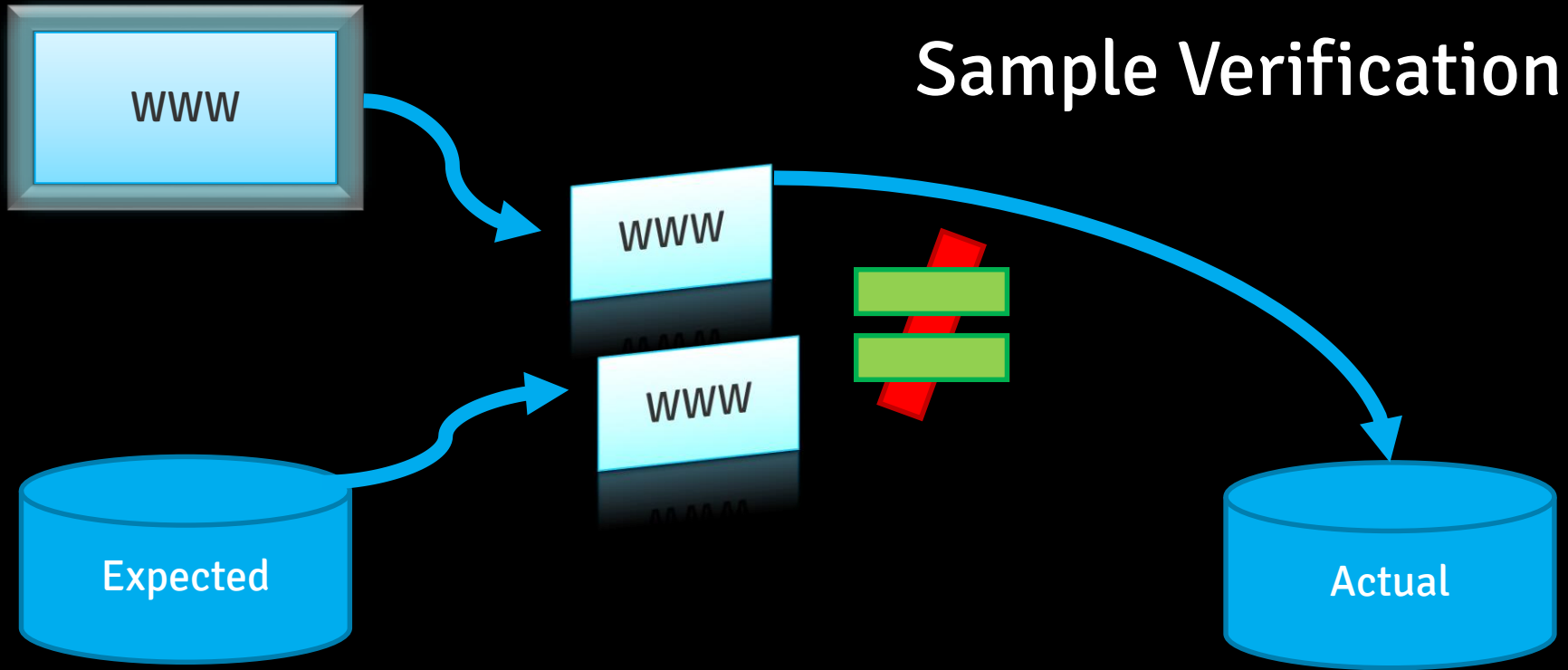
Galenium – Differences and Sampling



Differences file path example:



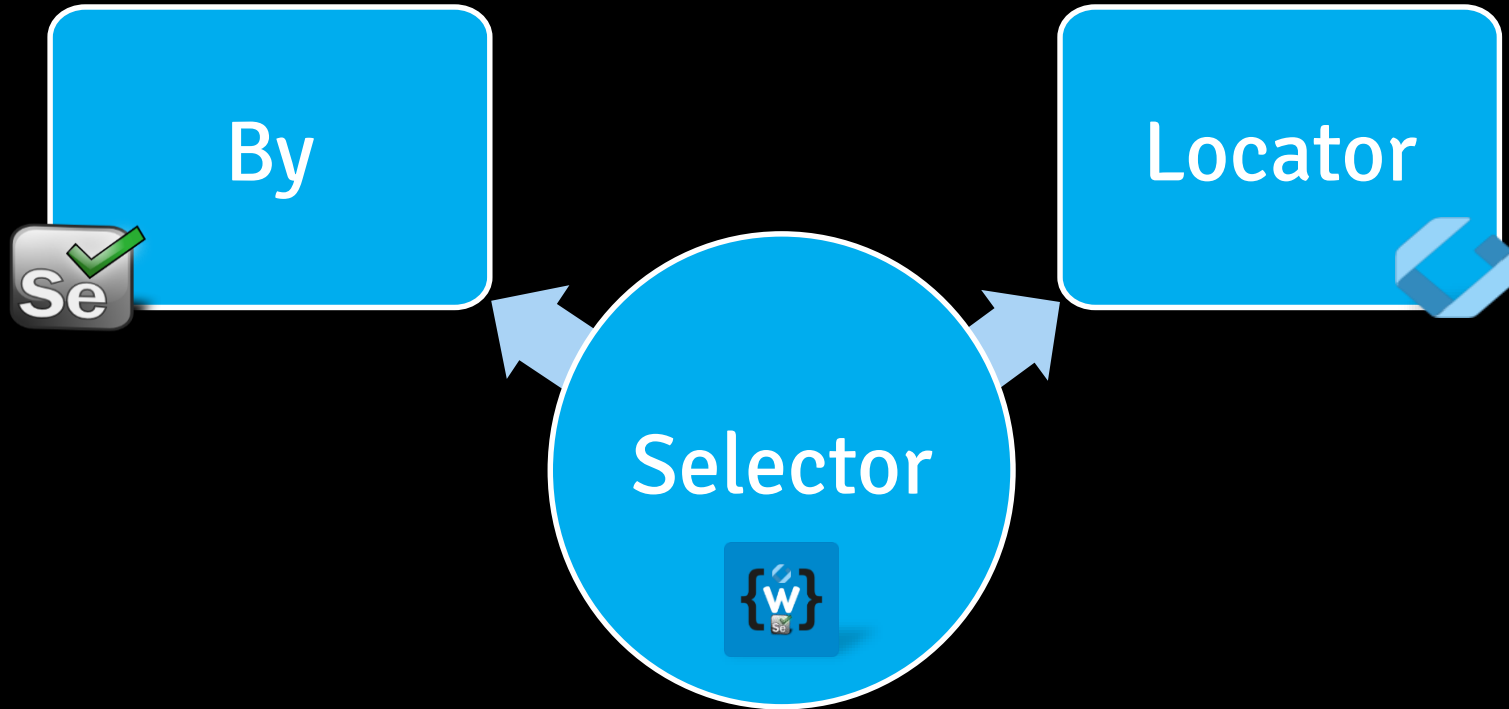
Galenium – Differences and Sampling



- ExtentReports 2.0
 - Specialized test reporting
 - Can tag test cases
 - Open Source
 - Integrated via SLF logback

Very central
concept!

Galenium - Selectors



Galenium process



Demo

Playground Session

Today 15:30 till 18:00
UI and Testing



References

- Demo project
<https://github.com/adaptto/2017-responsive-website-testing-galen-selenium>
- Galenium Website
<http://qa.wcm.io/galenium/index.html>
- Galen Framework
<http://galenframework.com/>
- Selenium
<http://www.seleniumhq.org/>

Questions or Lunch?