#MOBILE TESTING

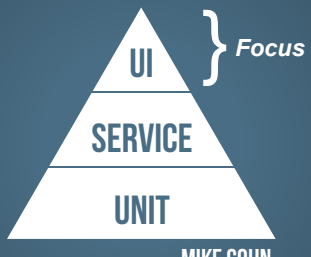
YOUP.HULSEBOS
@ InfoSupport .COM

ACCEPTANCE TESTING

TDD { ACCEPTANCE TEST DRIVEN DEVELOPMENT } ATDD

BUILD THE THING RIGHT
TDD

ATDD
BUILD THE RIGHT THING



- MIKE COHN

GHERKIN

CUCUMBER

CALABASH & UITEST

DSL

GIVEN

WHEN

THEN

FEATURES

and

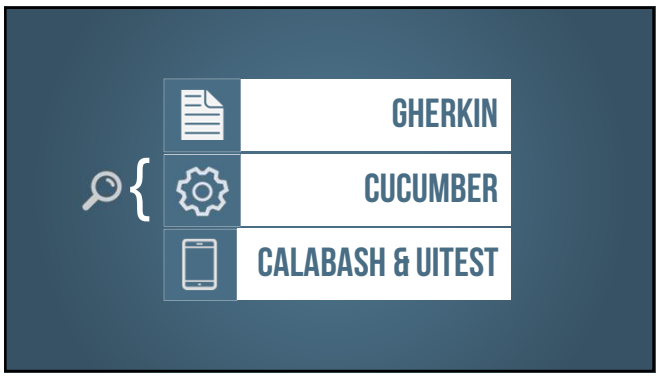
SCENARIOS

GHERKIN

```
1: Feature: Some terse yet descriptive text of what is desired
2:   Textual description of the business value of this feature
3:
4:   Scenario: Some determinable business situation
5:     Given some precondition
6:       When some action by the actor
7:       Then some testable outcome is achieved
8:
9:   Scenario: A different situation
10:       ...
```

GHERKIN

```
1:   Scenario: Some determinable business situation
2:     Given some precondition
3:       And some other precondition
4:      When some action by the actor
5:       And some other action
6:       But yet another action
7:      Then some testable outcome is achieved
8:       And something else we can check happens too
```



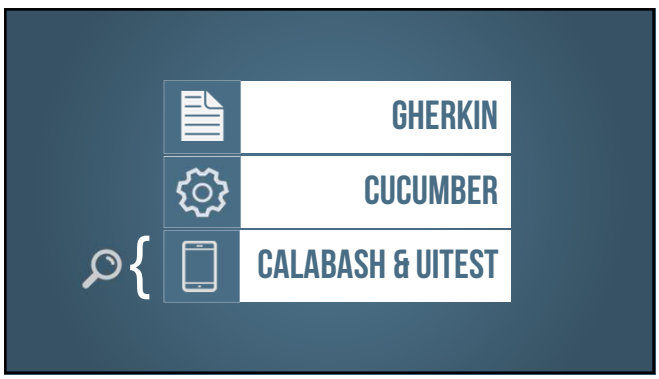
H O O K S

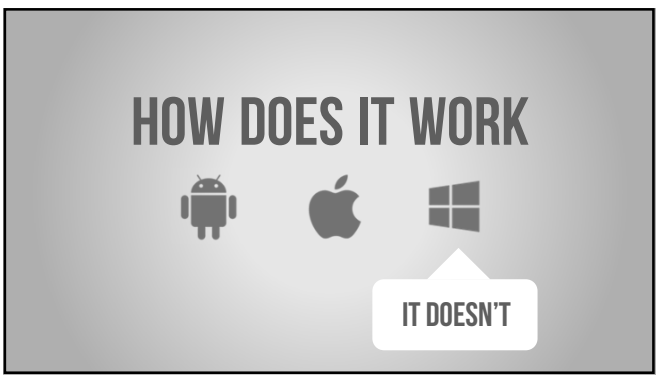
```
1:  Before do |scenario|
2:    scenario_tags = scenario.source_tag_names
3:    if scenario_tags.include?('@reinstall')
4:       || !INSTALLATION_STATE[:installed]
5:      uninstall_apps
6:      install_app(ENV['TEST_APP_PATH'])
7:      install_app(ENV['APP_PATH'])
8:      INSTALLATION_STATE[:installed] = true
9:    end
10:
11:   start_test_server_in_background
12: end
```

```
1:  After do |scenario|
2:   shutdown_test_server
3:  end
```

H O O K S

```
Before | scenario |
After | scenario |
Around do |scenario, block|
AfterStep do |scenario|
Before('@slow') do |scenario|
Before('@fast, @regression`, `@automatic') do |scenario|
```





TESTING ON

CLIENT

CALABASH
UITEST

JSON OVER HTTP

SERVER

TEST
SERVER

YOUR
APP

TESTING ON

CLIENT

CALABASH
UITEST

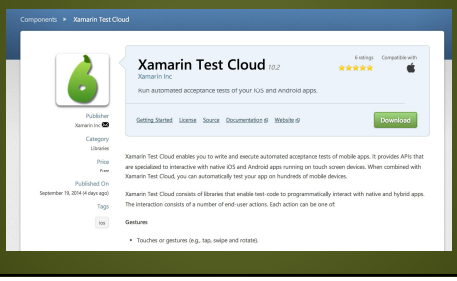
JSON OVER HTTP

SERVER

TEST
SERVER

YOUR
APP

TESTING ON



CROSS-PLATVORM?

PAGE OBJECTS

PAGE OBJECTS

Android
Page Object

```
1:require 'calabash-android/abase'
2:
3: class MainPage < Calabash::ABase
4:
5:  def trait
6:  "android.widget.TextViewtext:'Card'"
8:  end
9:
10:end
```

iOS
Page Object

```
1: require 'calabash-cucumber/ibase'
2:
3:  class MainPage < Calabash::ABase
4:
5:    def trait
6:      "* text:'Validate Credit 7:Card'"
8:    end
9:
10: end
```

CROSS-PLATVORM

1. Only use custom steps (Calabash only)
2. A page object interface for each screen
3. Implement all page objects for each platvorm
4. Rejoice and profit!

QUERY SYNTAX

query("button")

```
{{"id"=>"login_button",
  "enabled"=>true,
  "contentDescription"=>nil,
  "text"=>"Login",
  "qualified_class"=>"android.widget.Button",
  "frame"=>{"y"=>322, "height"=>73, "width"=>84, "x"=>135},
  "description"=>"android.widget.Button@40584908",
  "class"=>"Button"},

 {"id"=>"login_button_slow",
  "enabled"=>true,
  "contentDescription"=>nil,
  "text"=>"Login (slow)",
  "qualified_class"=>"android.widget.Button",
  "frame"=>{"y"=>322, "height"=>73, "width"=>143, "x"=>234},
  "description"=>"android.widget.Button@40585390",
  "class"=>"Button"}]
```

QUERY SYNTAX

```
Query("* e0 e1 e2 ... ect")
```

ClassName

```
Query("android.widget.Button")
Query("view:'MyClass'")
```

Filtering

```
Query("button marked:'Login'")
```

QUERY SYNTAX

Direction

```
Query("* descendant child sibling parent")
```

Predicate

```
Query("label {text BEGINSWITH 'Cell 1'}")
```

WebView Support

```
Query("webView css:'#header'")
```

ADVANCED

Methods

```
Query("* marked:'list'", :setSelection => 0)
```

Backdoor

```
Backdoor("yourMethodName", "string parameter")
```

EXPLORING THE APP

Calabash
calabash-android console myApp.apk

UITest
Iapp.Rpl()

Best of all

IT'S FREE OPEN

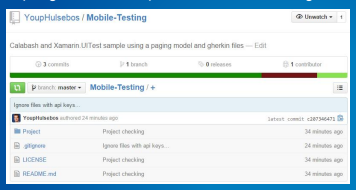
Xamarin.UITEST

LINQ SYNTAX

Same api as Calabash in a different form
Just different client

```
app.Query(e => e.Id("userName").Decendants())
App.Invoke("yourMethod")
```

https://github.com/YoupHulsebos/Mobile-Testing



THANKS

KARL KRUKOW - @KARLKRUKOW
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