

Testing





ACCEPTANCE TESTING

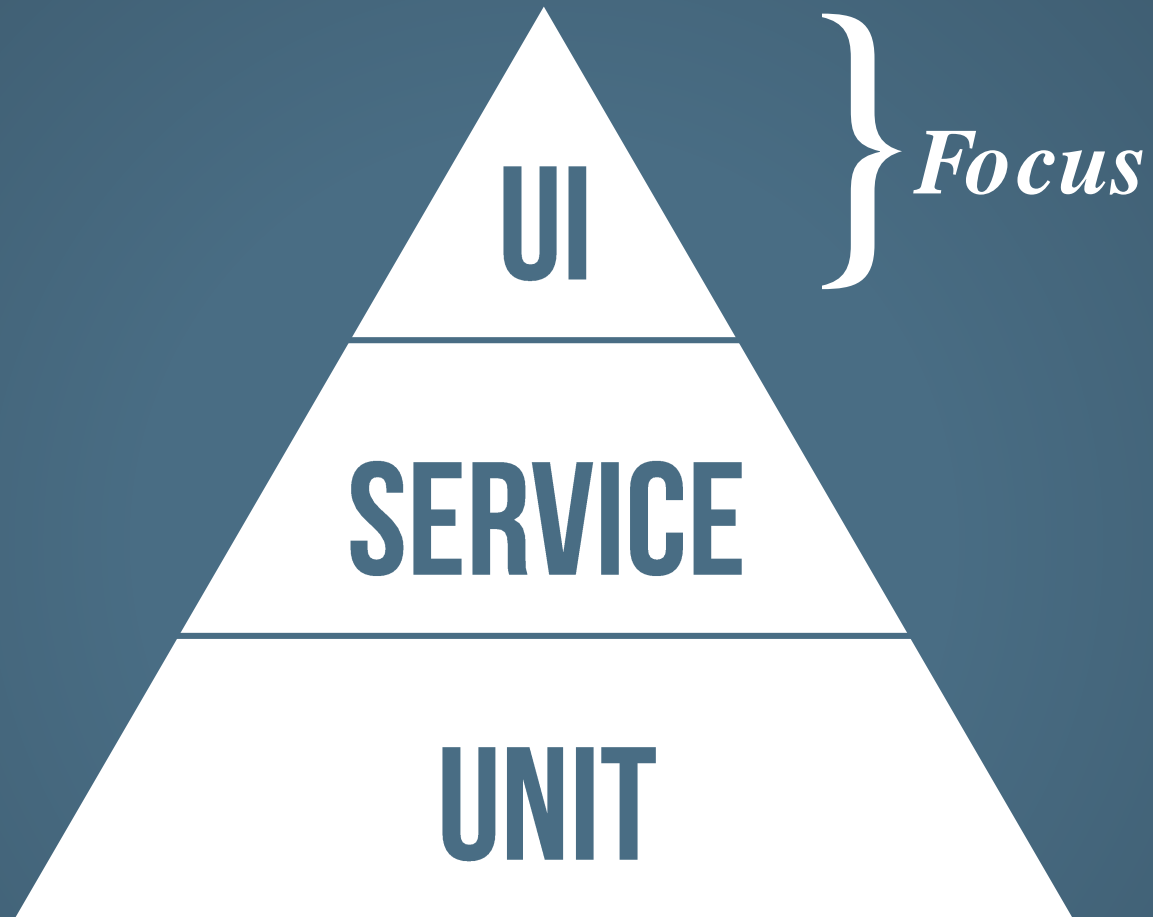
TDD { **ACCEPTANCE
TEST DRIVEN
DEVELOPMENT** } *ATDD*

**BUILD THE
THING
RIGHT**

TDD

ATDD

**BUILD THE
RIGHT
THING**



- MIKE COHN



GHERKIN



CUCUMBER



UITEST



GHERKIN

DSL

GIVEN

WHEN

THEN

FEATURES

and

SCENARIOS

G H E R K I N

- 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: ...

G H E R K I N

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



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H O O K S

[BeforeTestRun]
[AfterTestRun]
[BeforeFeature]
[AfterFeature]
[BeforeScenario] or [Before]
[AfterScenario] or [After]
[BeforeScenarioBlock]
[AfterScenarioBlock]
[BeforeStep]
[AfterStep]



GHERKIN

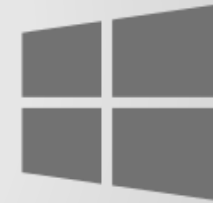


CUCUMBER



UITEST

HOW DOES IT WORK



IT DOESN'T

TESTING ON



CLIENT

UITEST

SERVER

**TEST
SERVER**

**YOUR
APP**

JSON OVER HTTP



TESTING ON

CLIENT

UITEST

SERVER

**TEST
SERVER**

**YOUR
APP**

← JSON OVER HTTP →

TESTING ON



69.126

Downloads

263

Downloads of v 0.17.0

2015-12-09

Last published

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Xamarin Test Cloud Agent 0.17.0

Xamarin Test Cloud Agent

To install Xamarin Test Cloud Agent, run the following command in the [Package Manager Console](#)

```
PM> Install-Package Xamarin.TestCloud.Agent
```

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Release Notes

For a complete list of release notes see <http://developer.xamarin.com/releases/testcloud/calabash/0.17.0/>

Owners



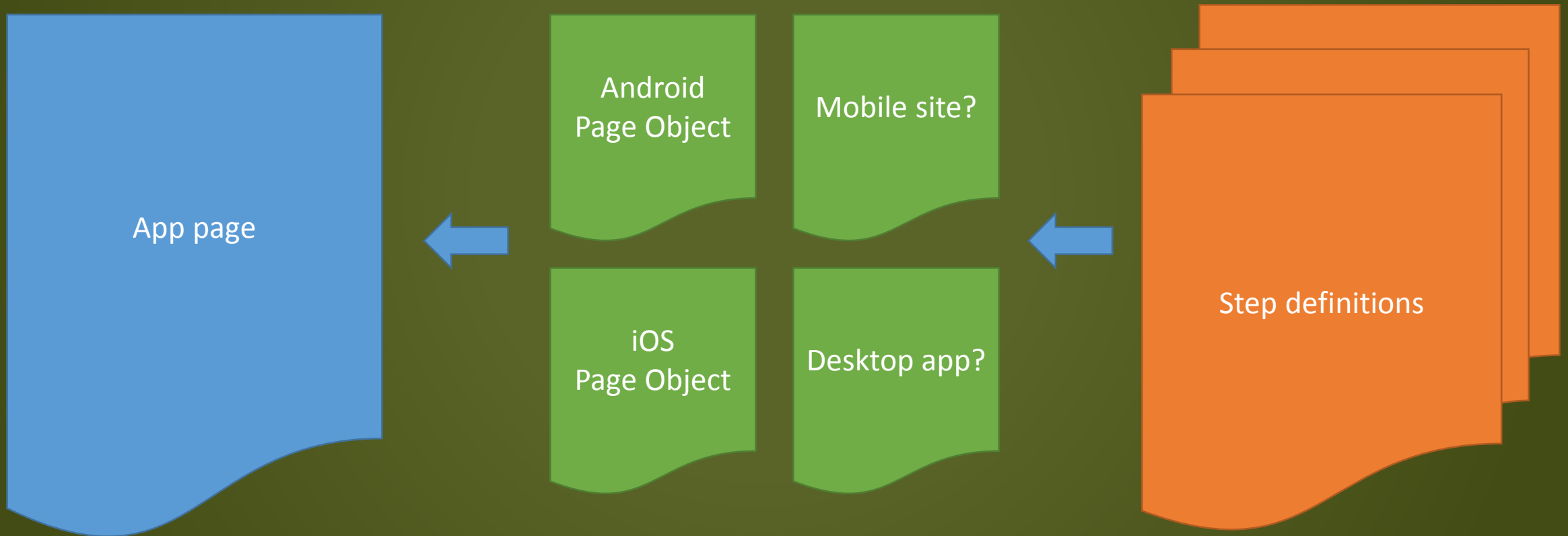
XamarinTestCloud

Authors

Xamarin Inc.

CROSS-PLATFORM?

PAGE OBJECTS



PAGE OBJECTS

Android
Page Object

```
class MainPage : IMainPage
{
    public string OS = "android";
}
```

iOS
Page Object

```
class MainPage : IMainPage
{
    public string OS = "iOS";
}
```

CROSS-PLATFORM

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



UITEST

LINQ SYNTAX

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

QUERY SYNTAX

```
new Func<AppQuery, AppQuery>(c => c.Class("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

Zoals linq

ClassName

```
Android: .Class("android.widget.Button")  
iOS: .Class("view:'MyClass'")
```

Filtering

```
.Class("button").Marked("Login")
```

QUERY SYNTAX

Direction

`.Descendant() .Parent() .Sibling()`

WebView Support

`.WebView().Css("#element")`

A D V A N C E D

Backdoor

```
App.Invoke("yourMethod")
```

Methods

```
.Id("refreshDatum").Invoke("setText", "HH:MM")
```

EXPLORING THE APP

UITest

`Iapp.Rpl()`



DEMO TIME

LET US TASTE THAT FRUIT

Best of all

IT'S FREE
OPEN



HANDS ON



XAMARIN
TEST CLOUD

Xamarin Consulting Partners

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Location: Europe ▼

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Test Cloud



Cayas Software
Minden, Germany



Commentor
Denmark



Diatom Enterprises
Latvia



Info Support
Netherlands



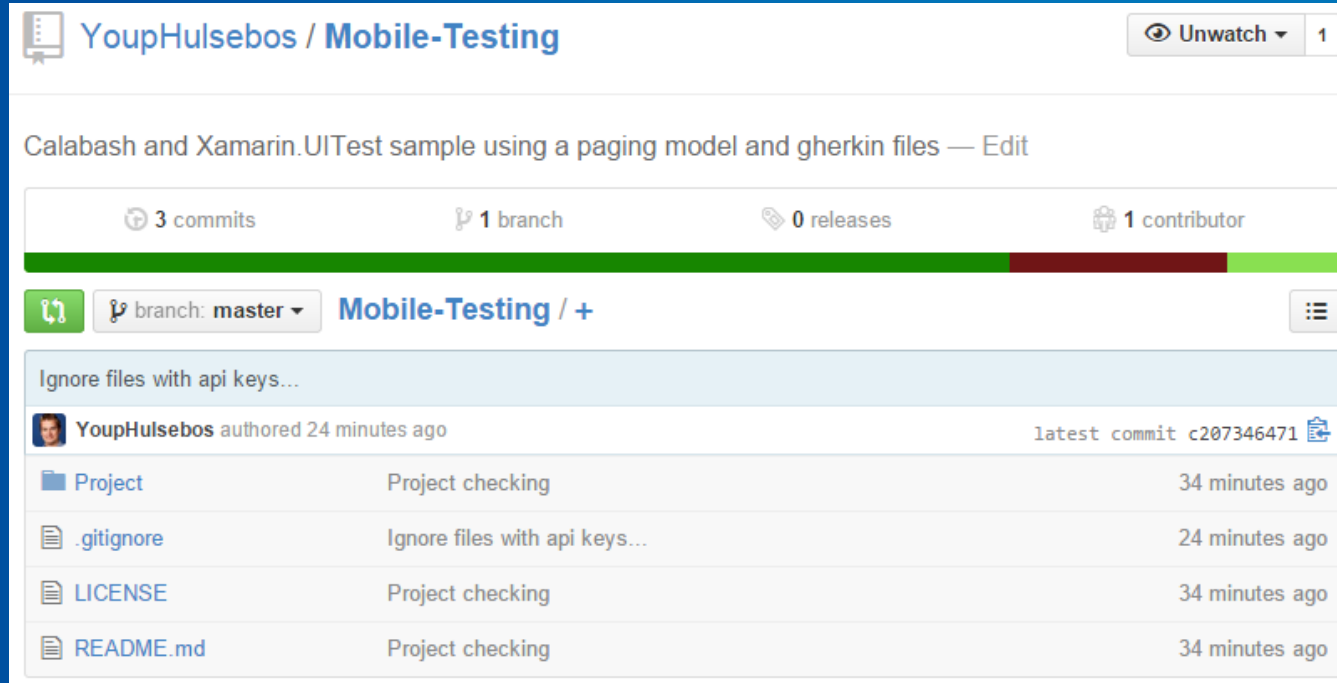
Leaware
Warsaw, Poland



Microsec Ltd
Hampshire, UK

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

<http://tinyurl.com/IskaTestCloud>



The screenshot shows the GitHub interface for the repository 'YoupHulsebos / Mobile-Testing'. At the top, there's a header with the repository name and an 'Unwatch' button. Below this, a description reads 'Calabash and Xamarin.UITest sample using a paging model and gherkin files — Edit'. A summary bar indicates '3 commits', '1 branch', '0 releases', and '1 contributor'. The main content area shows the 'master' branch selected. Below the branch selector, there's a section titled 'Ignore files with api keys...' followed by a commit by 'YoupHulsebos' from 24 minutes ago. The commit details show a table of files: 'Project' (Project checking, 34 minutes ago), '.gitignore' (Ignore files with api keys..., 24 minutes ago), 'LICENSE' (Project checking, 34 minutes ago), and 'README.md' (Project checking, 34 minutes ago).

YoupHulsebos / **Mobile-Testing** Unwatch 1

Calabash and Xamarin.UITest sample using a paging model and gherkin files — Edit

3 commits 1 branch 0 releases 1 contributor

branch: master **Mobile-Testing** / +

Ignore files with api keys...

YoupHulsebos authored 24 minutes ago latest commit c207346471

Project	Project checking	34 minutes ago
.gitignore	Ignore files with api keys...	24 minutes ago
LICENSE	Project checking	34 minutes ago
README.md	Project checking	34 minutes ago

THANKS

KARL KRUKOW - @KARLKRUKOW

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[HTTP://CALABA.SH/](http://calaba.sh/)

[HTTP://CUKES.INFO/](http://cukes.info/)

[HTTPS://GITHUB.COM/CUCUMBER/CUCUMBER/WIKI/GHERKIN](https://github.com/cucumber/cucumber/wiki/Gherkin)

LINKS