

# Continuous Testing?

## FITR testautomatisering!

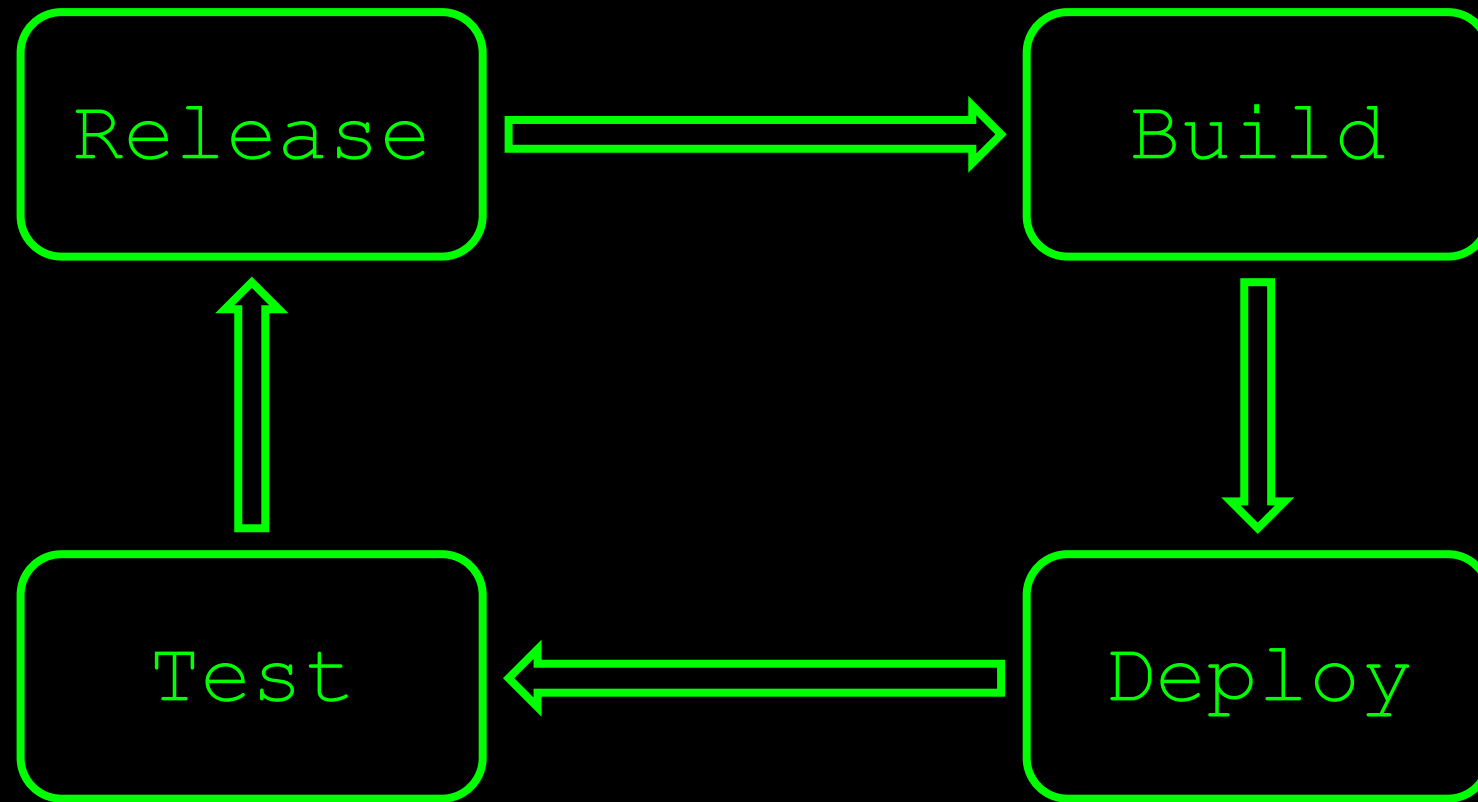
Bas Dijkstra

[bas@ontestautomation.com](mailto:bas@ontestautomation.com)

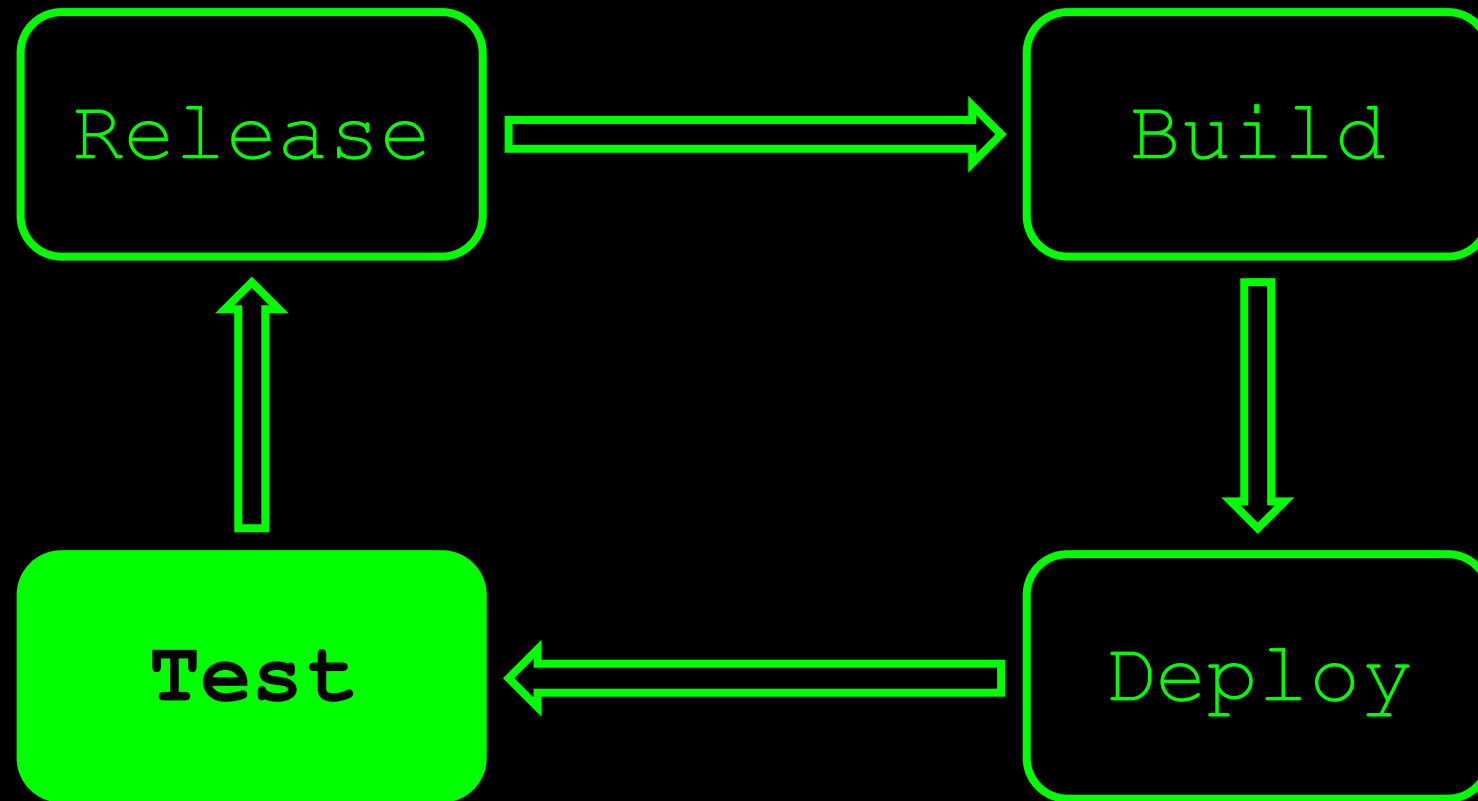
[www.ontestautomation.com](http://www.ontestautomation.com)

@\_basdijkstra

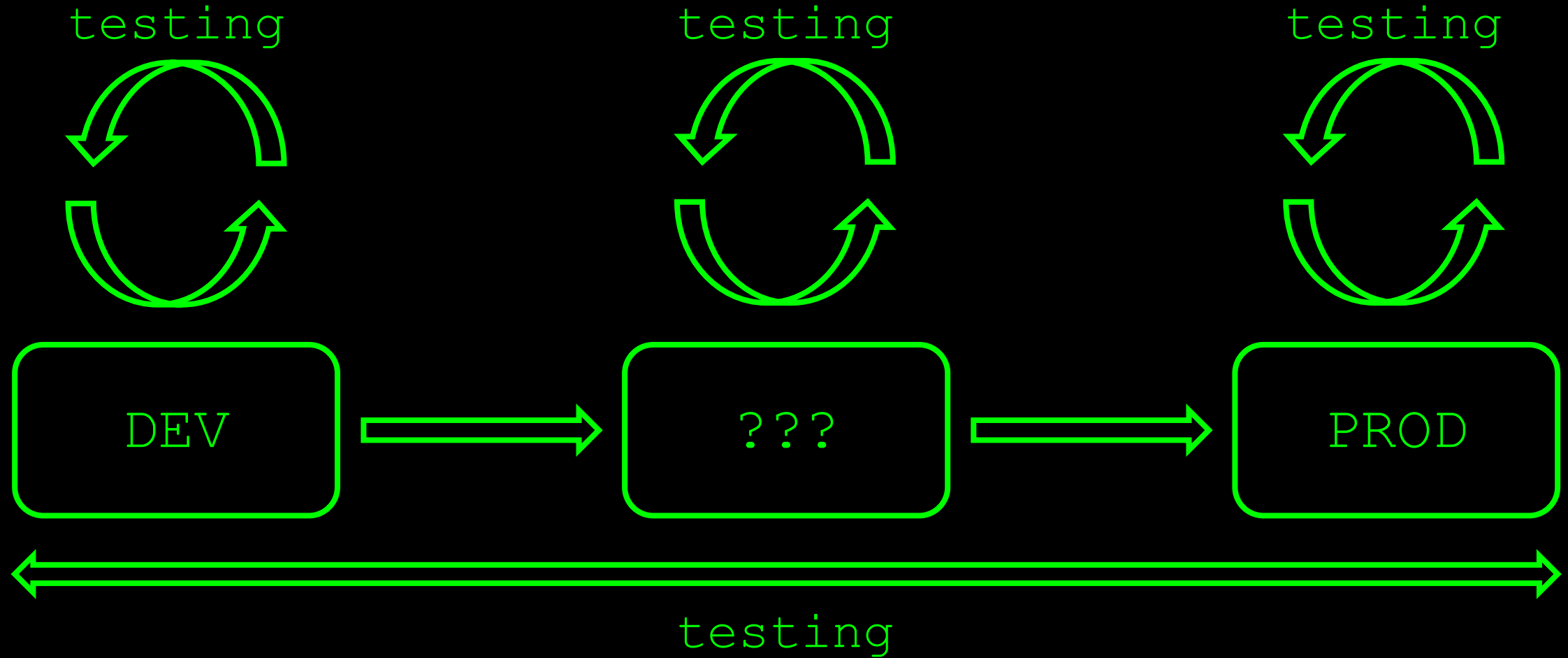
# Continuous Delivery



# Continuous Testing



# Continuous Testing





**J**Unit



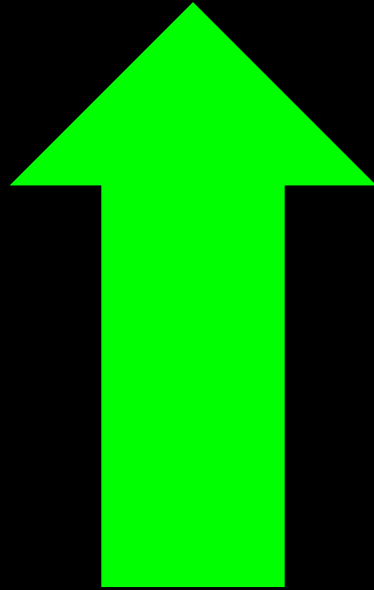
**Serenity**  
BDD

AUTOMATE



ALL THE THINGS?

Continuous Testing



Testautomatisering

# Continuous Testing

**F**

**I**

**T**

**R**

Testautomatisierung



# Continuous Testing

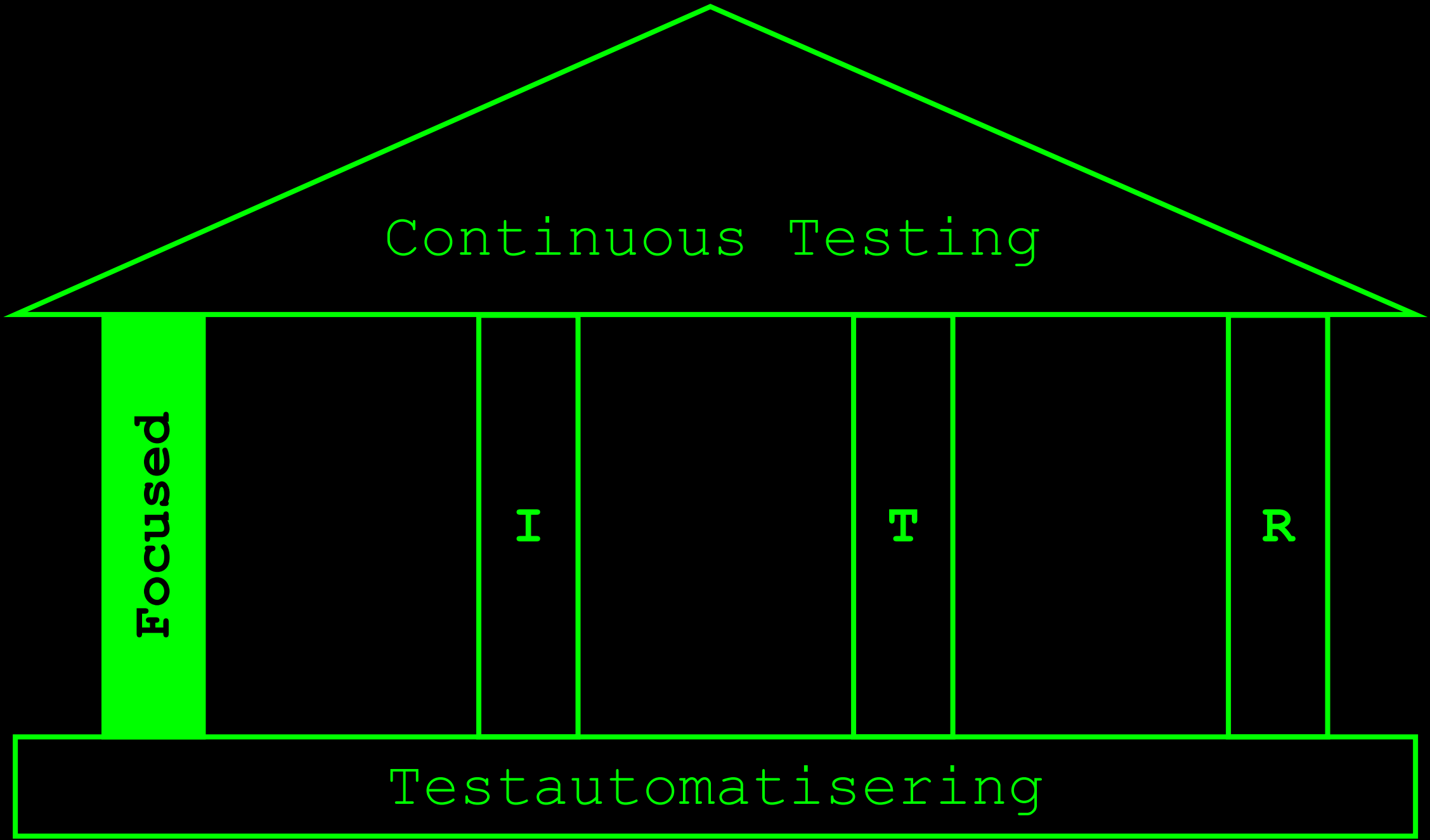
**Focused**

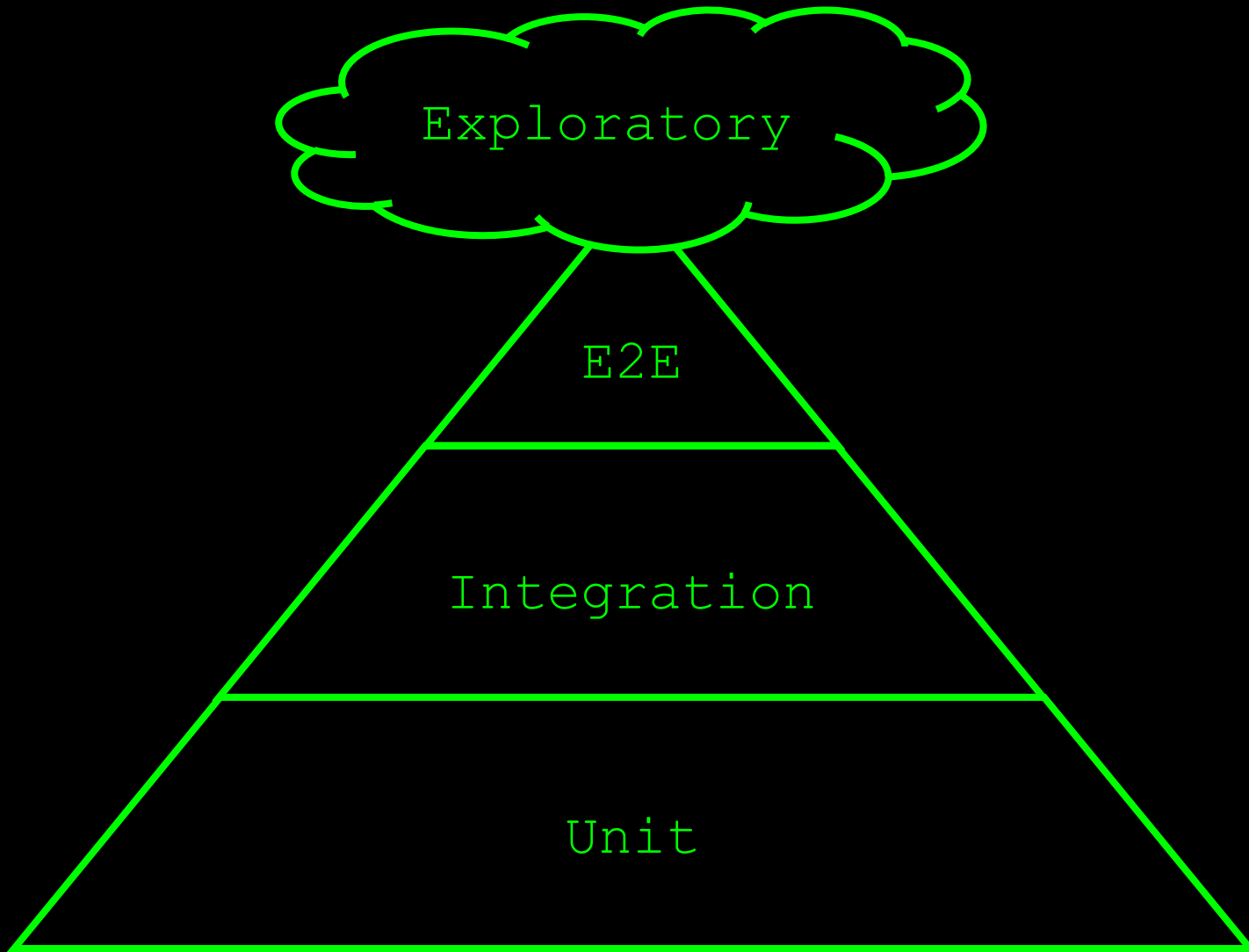
**I**

**T**

**R**

Testautomatisering





- Customer journeys
- Vaak via de user interface
- 'Ultieme integratietest'
  
- Integratie van componenten
- Ontsluiten data / logica
- (Vaak) API-gedreven
- 'De vergeten laag'
  
- Individuele componenten
- Code-gedreven
- Mocks en stubs

Test op het **juiste** niveau

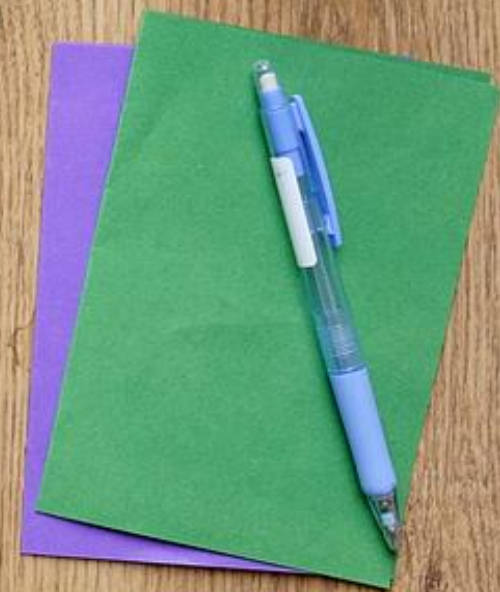
Zo dicht als mogelijk op de implementatie

# Focused

Optimale verhouding tussen scope en snelheid

Minimaliseren van 'shallow feedback'

CASE  
STUDY



# Continuous Testing

F

**Informative**

F

R

Testautomatisierung

De juiste informatie voor het juiste publiek

Rapportage, foutmeldingen, code

# Informative

Zo snel mogelijke root cause analysis

Eenvoudiger communicatie en overdracht

```

org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"id","selector":"doesnotexist"}
(Session info: chrome=60.0.3112.113)
(Driver info: chromedriver=2.29.461591 (62ebf098771772160f391d75e589dc567915b233),platform=Windows NT 6.3.9600 x86_64) (WARNING: The server did not provide any
stacktrace information)
Command duration or timeout: 125 milliseconds
For documentation on this error, please visit: http://seleniumhq.org/exceptions/no_such_element.html
Build info: version: '3.4.0', revision: 'unknown', time: 'unknown'
System info: host: 'BAS', ip: '192.168.99.1', os.name: 'Windows 8.1', os.arch: 'amd64', os.version: '6.3', java.version: '1.8.0_40'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities [{applicationCacheEnabled=false, rotatable=false, mobileEmulationEnabled=false, networkConnectionEnabled=false, chrome={chromedriverVersion=2.29.461591
(62ebf098771772160f391d75e589dc567915b233), userDataDir=C:\Users\Bas\AppData\Local\Temp\scoped_dir9612_23461}, takesHeapSnapshot=true, pageLoadStrategy=normal,
databaseEnabled=false, handlesAlerts=true, hasTouchScreen=false, version=60.0.3112.113, platform=WIN8_1, browserConnectionEnabled=false, nativeEvents=true,
acceptSslCerts=true, locationContextEnabled=true, webStorageEnabled=true, browserName=chrome, takesScreenshot=true, javascriptEnabled=true, cssSelectorsEnabled=true,
unexpectedAlertBehaviour=}]
Session ID: 2adb047d9c6368b12f92d802ebb4f375
*** Element info: {Using=id, value=doesnotexist}
    at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
    at sun.reflect.NativeConstructorAccessorImpl.newInstance(Unknown Source)
    at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(Unknown Source)
    at java.lang.reflect.Constructor.newInstance(Unknown Source)
    at org.openqa.selenium.remote.ErrorHandler.createThrowable(ErrorHandler.java:215)
    ...

```

## Tests

### Single prospect is not eligible for a mortgage

Sep 29, 2017 02:49:23 PM



**Error**

## Single prospect is not eligible for a mortgage

Sep 29, 2017 02:49:23 PM

Sep 29, 2017 02:50:23 PM

0h 0m 59s+537ms

Status	Timestamp	Details
	2:50:23 PM	Error in select(): Element By.id: doesnotexist could not be found 

Continuous Testing

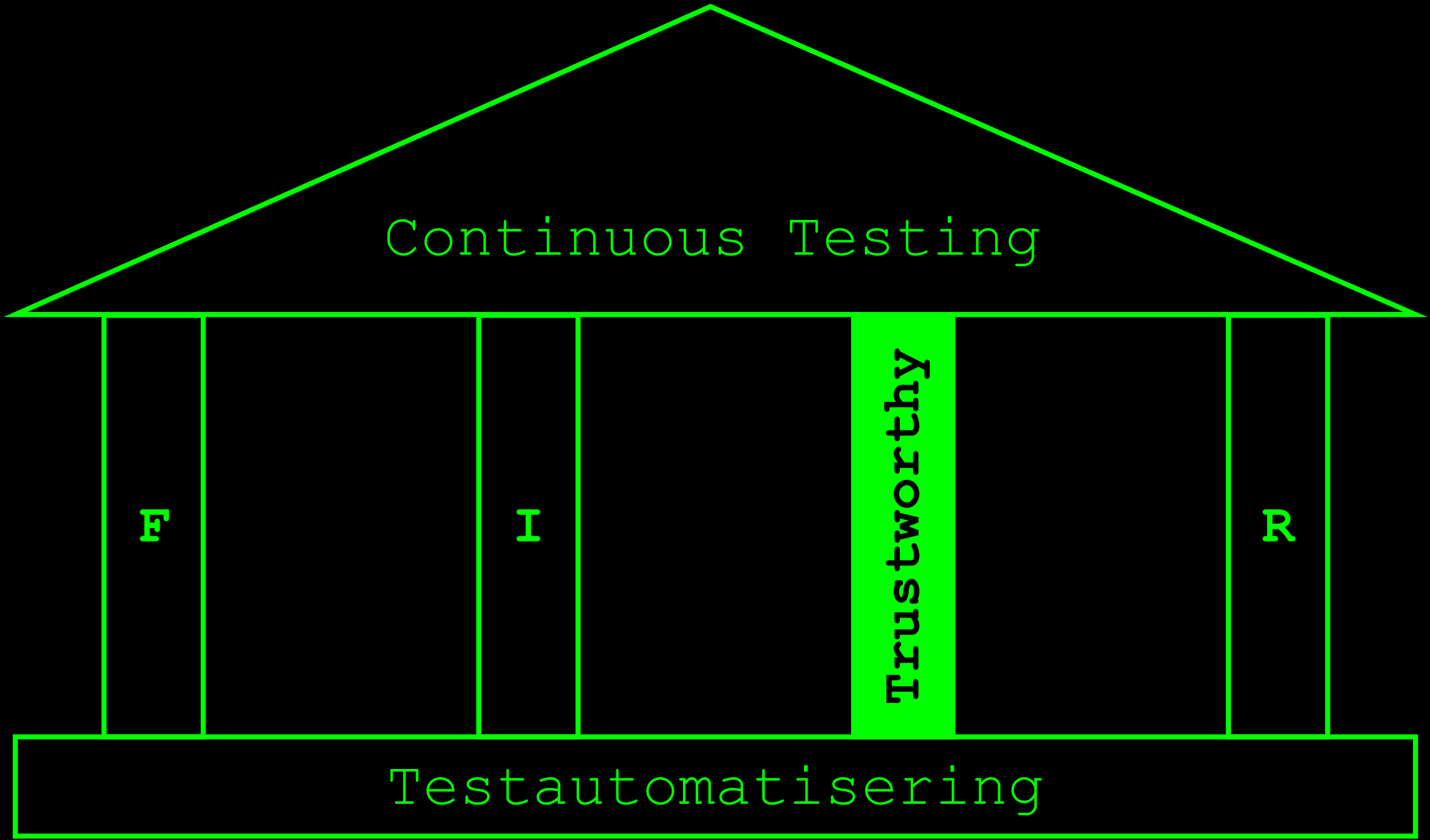
**F**

**I**

**Trustworthy**

**R**

Testautomatisering





Beslissingen worden genomen op basis van testresultaten

Stabiele, voorspelbare testuitvoer

Elimineren 'false positives' en 'false negatives'

# Trustworthy

Onbetrouwbaarheid zorgt voor tijdverlies en frustratie

Liever geen geautomatiseerde test dan een onbetrouwbare





# Continuous Testing

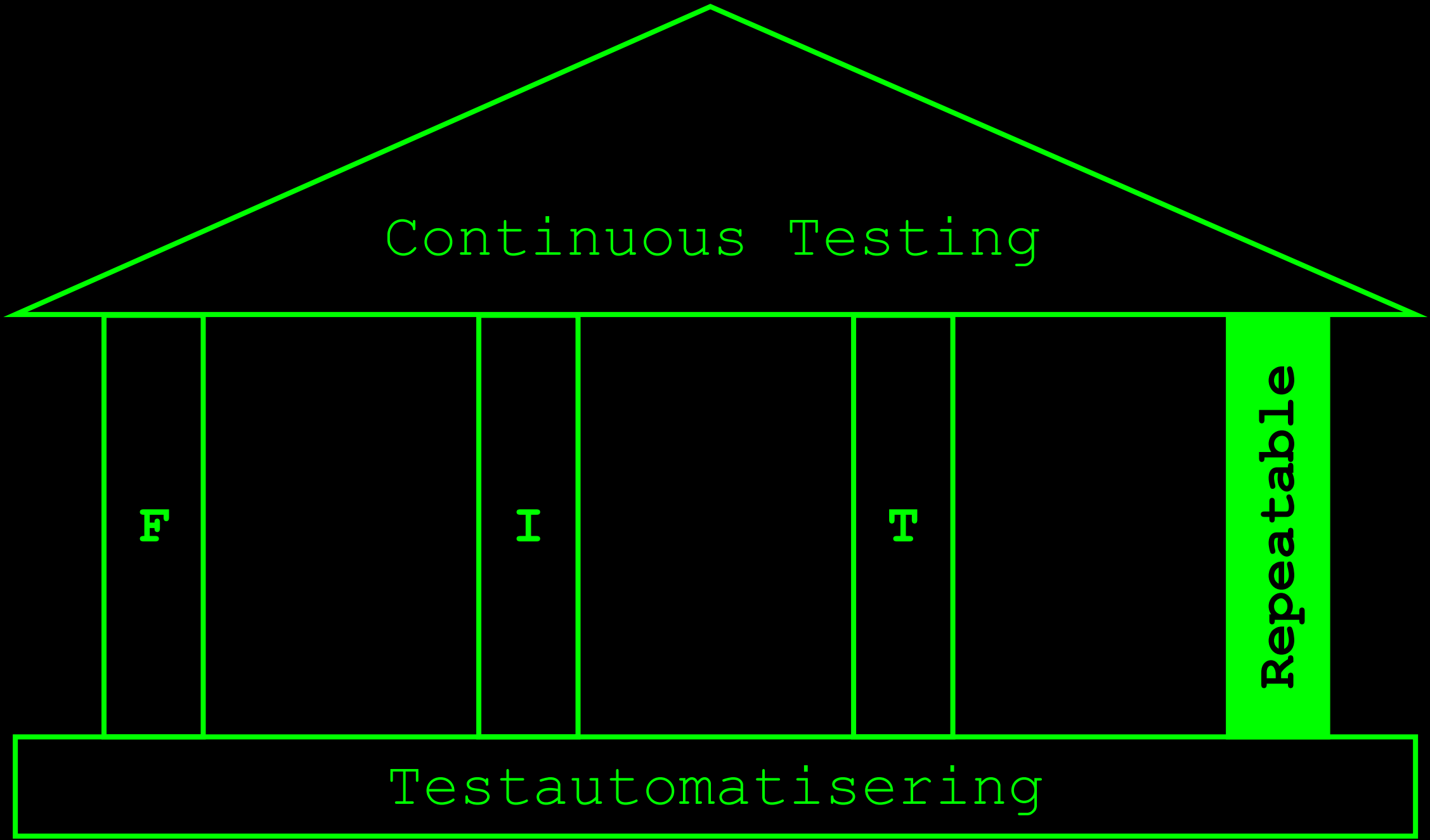
**F**

**I**

**F**

**Repeatable**

Testautomatisierung



Continuous  $\triangleq$  On demand

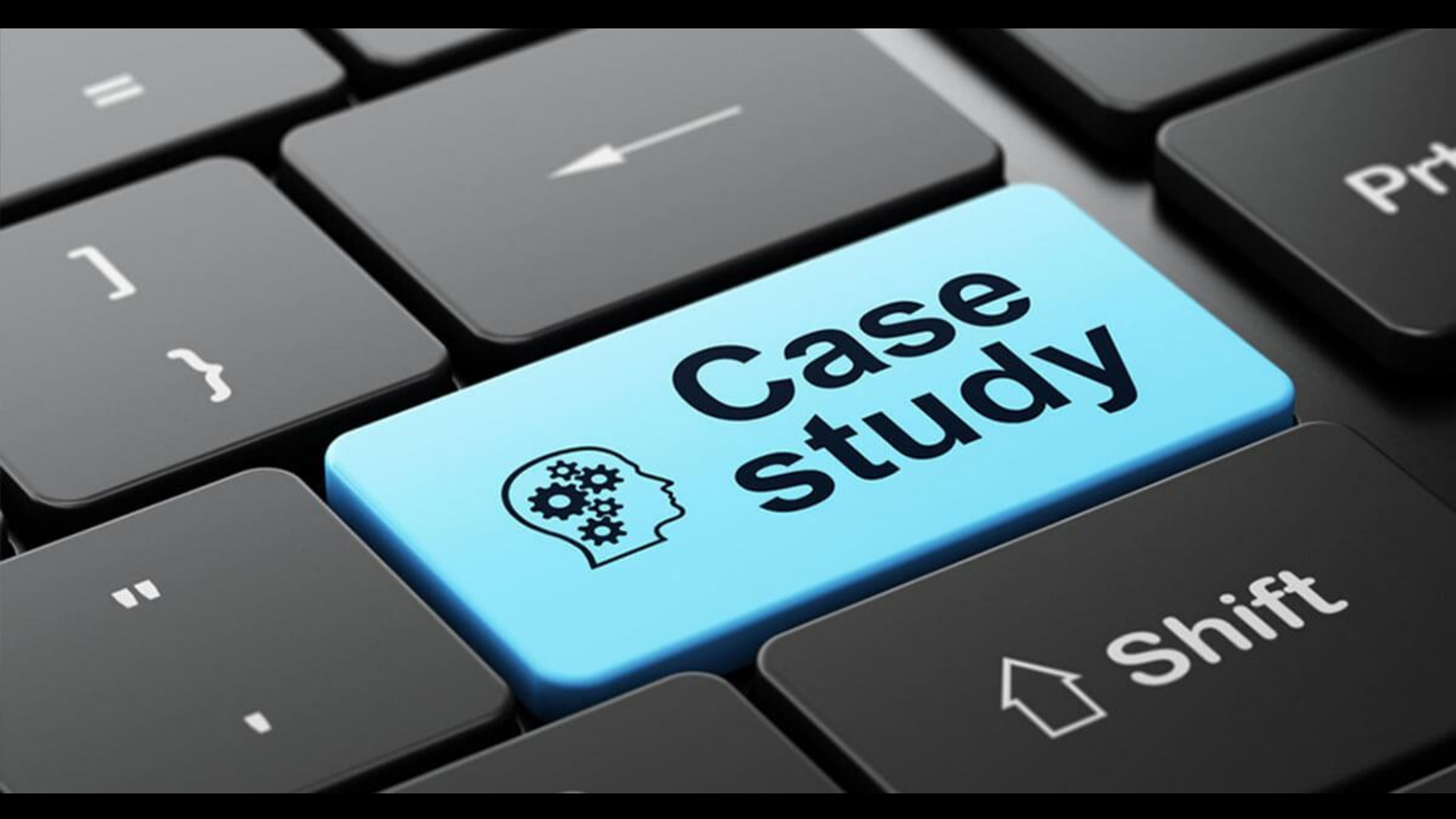
Geen handmatige acties nodig voor hertest

# Repeatable

Testdata en testomgevingen

Pak problemen meteen aan

Mocks, stubs, servicevirtualisatie



**Case  
Study**



**Shift**

"Begin with the end  
in mind"

-- *Stephen R. Covey* --

Testautomatisering

alleen is niet genoeg

voor Continuous Testing



# Continuous Testing

Focused

Informative

Trustworthy

Repeatable

Automated tests

# Contact

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