

Continuous Testing?

FITR testautomatisering!

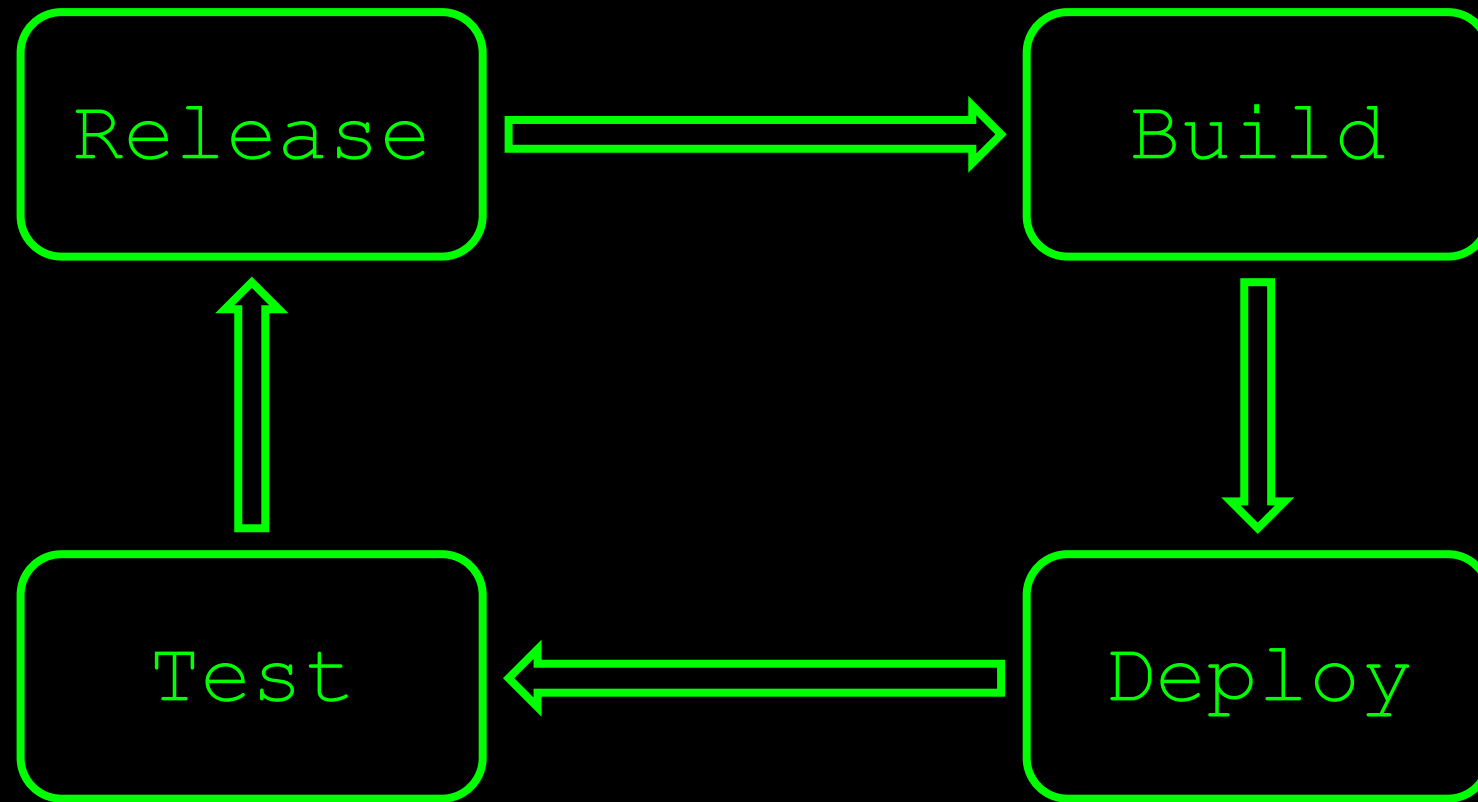
Bas Dijkstra

bas@ontestautomation.com

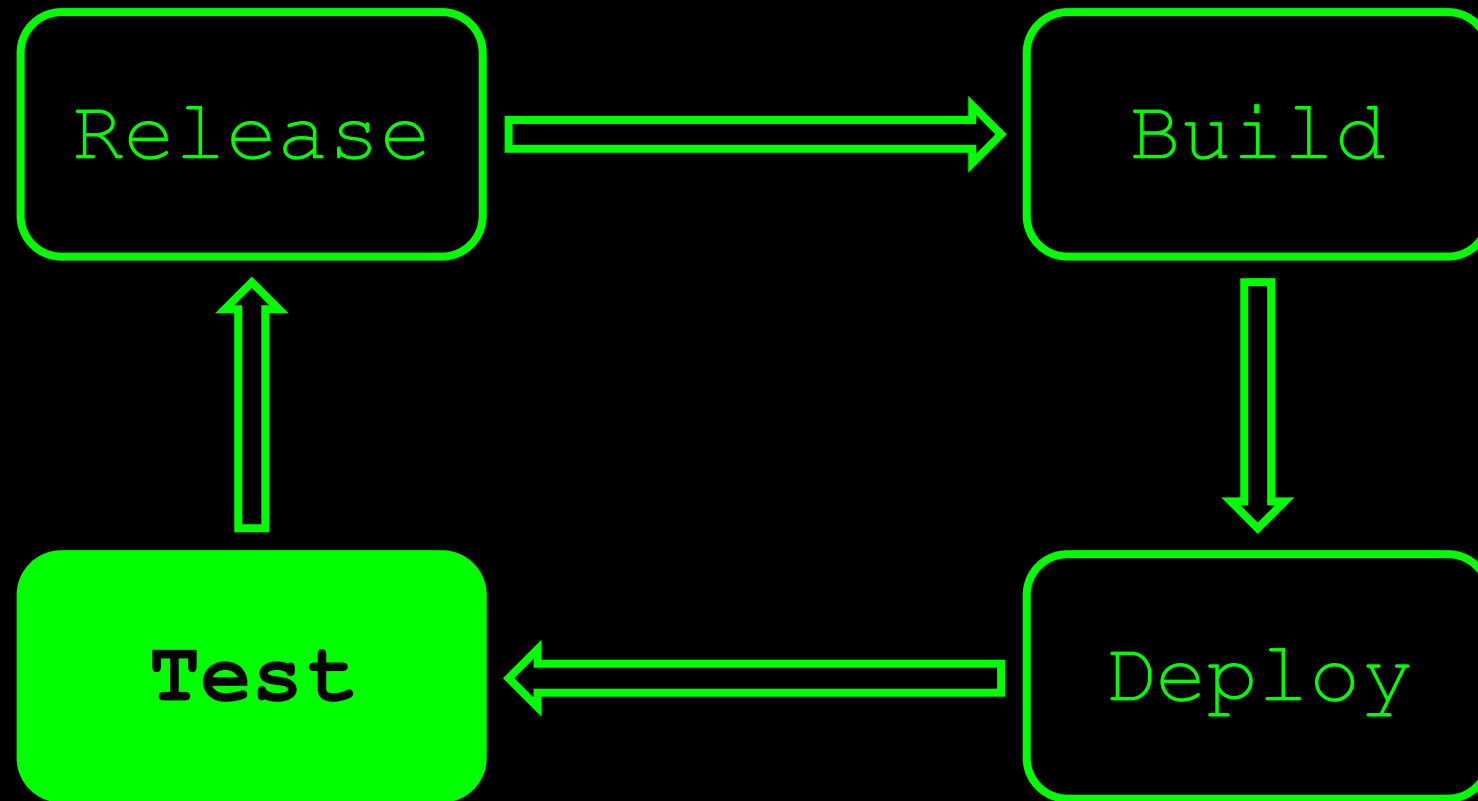
www.ontestautomation.com

@_basdijkstra

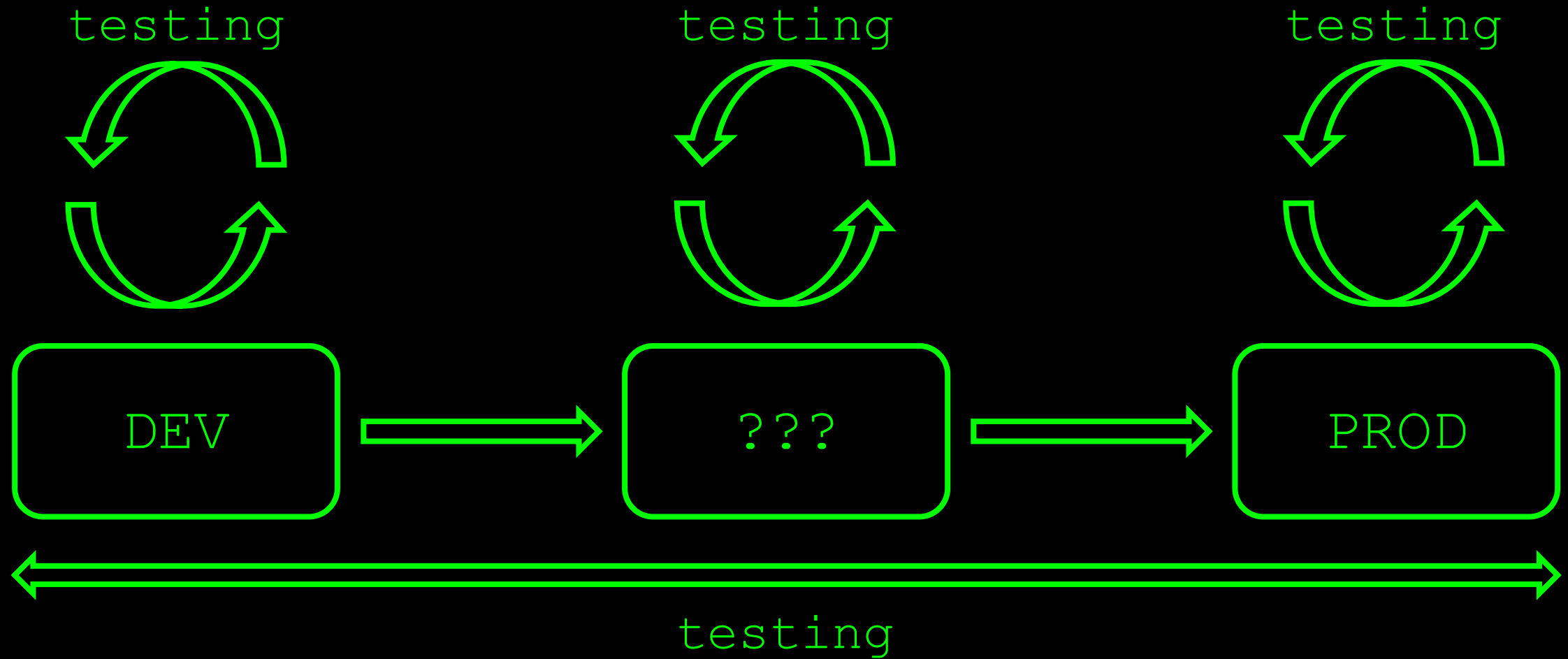
Continuous Delivery



Continuous Testing



Continuous Testing





JUnit



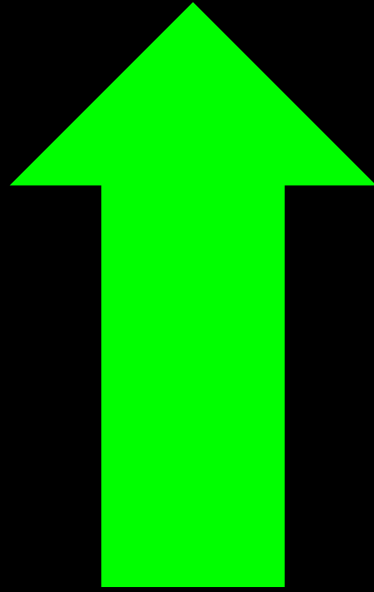
Serenity
BDD

AUTOMATE



ALL THE THINGS?

Continuous Testing



Testautomatisering

Continuous Testing

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Testautomatisierung

Continuous Testing

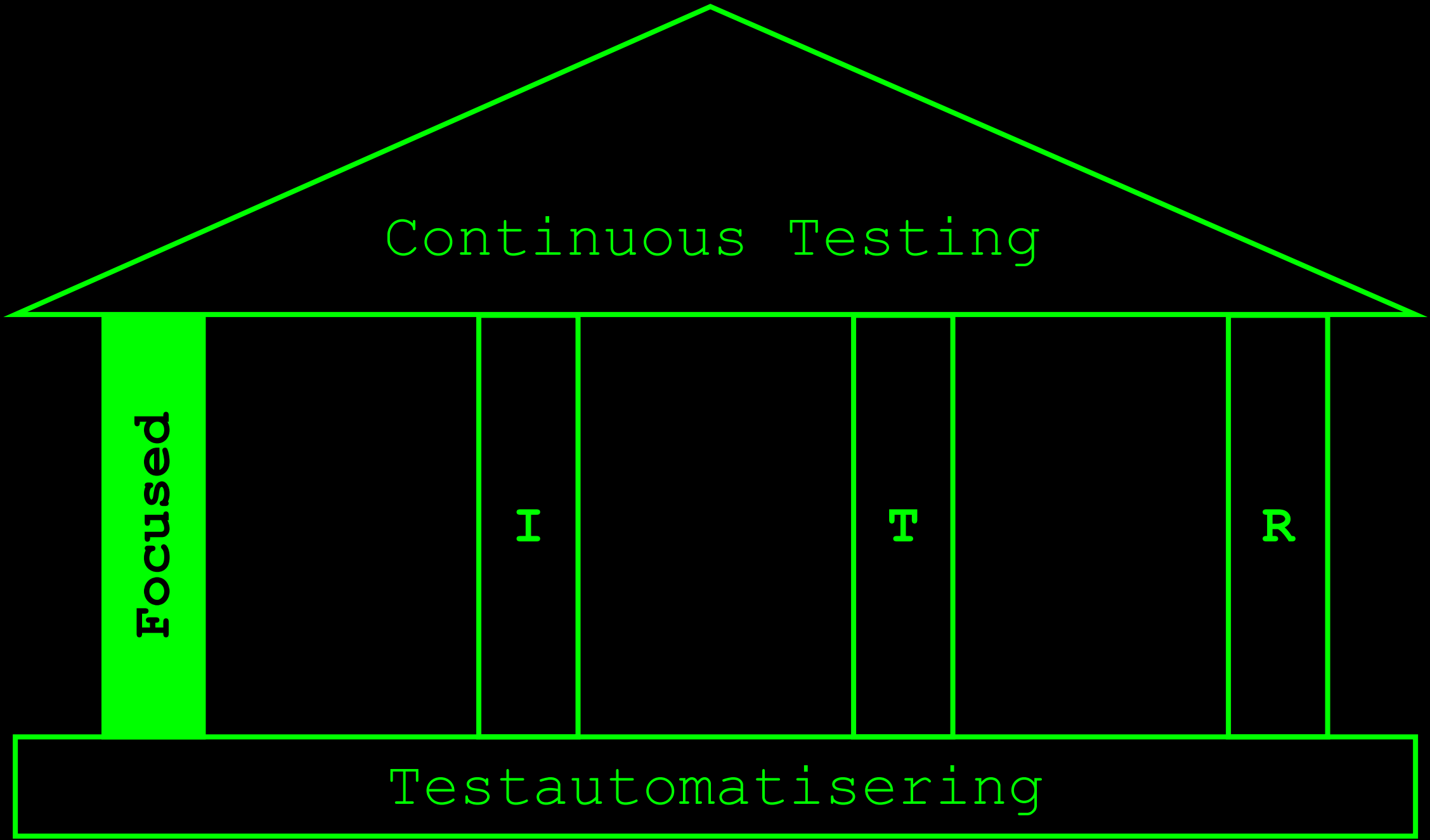
Focused

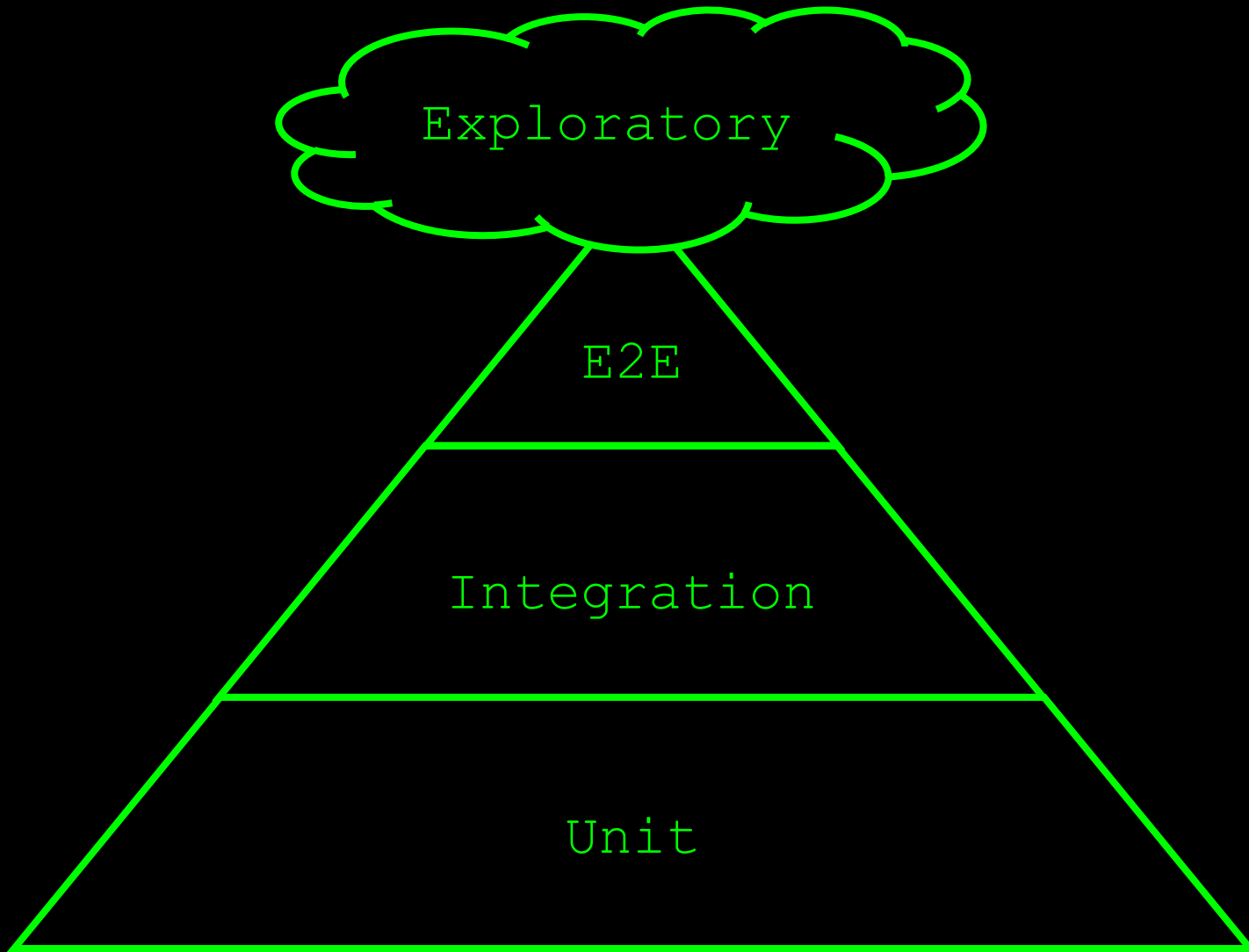
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Testautomatisering





- 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

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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

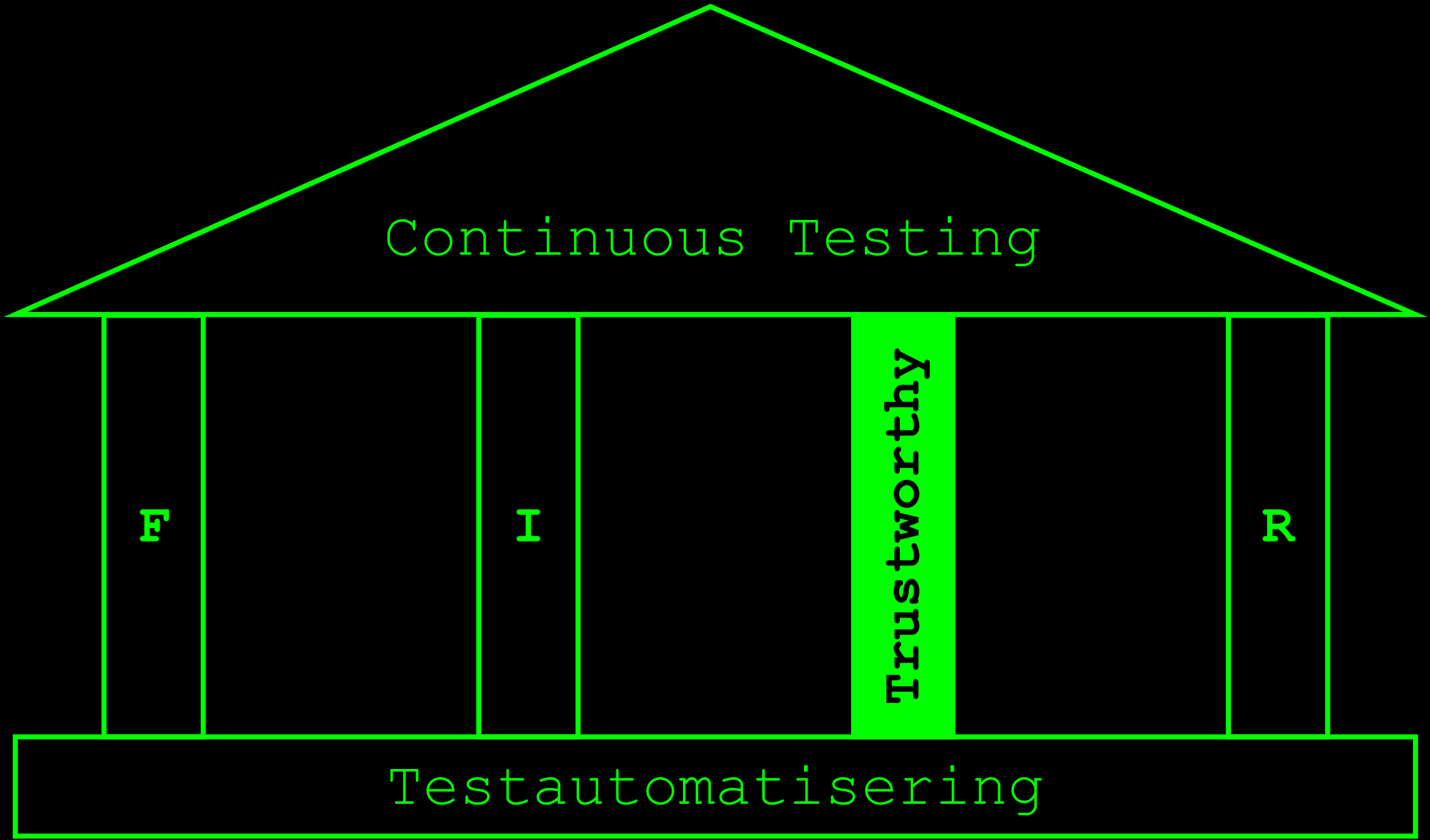
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Trustworthy

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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

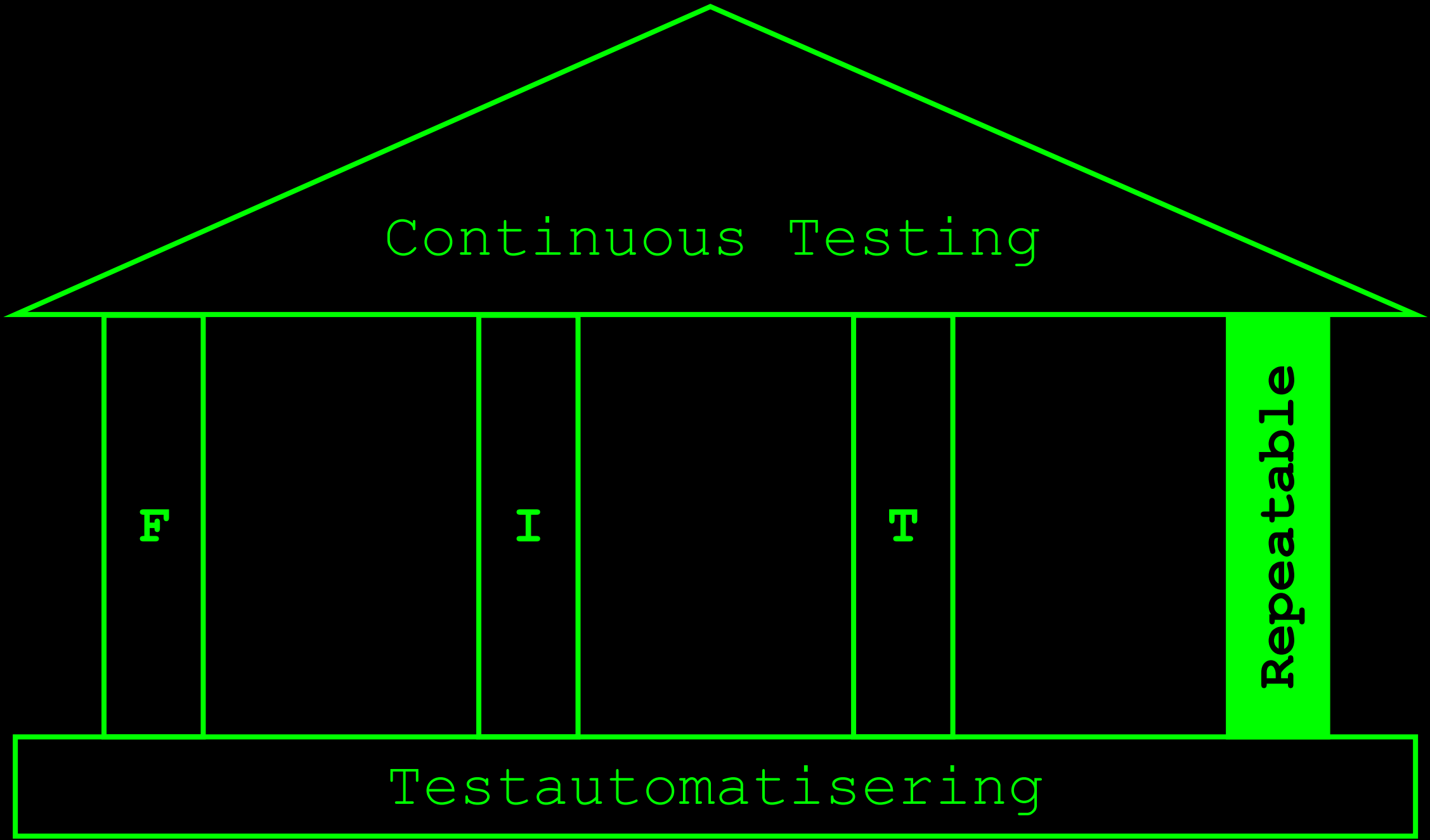
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Repeatable

Testautomatisering



Continuous \triangleq On demand

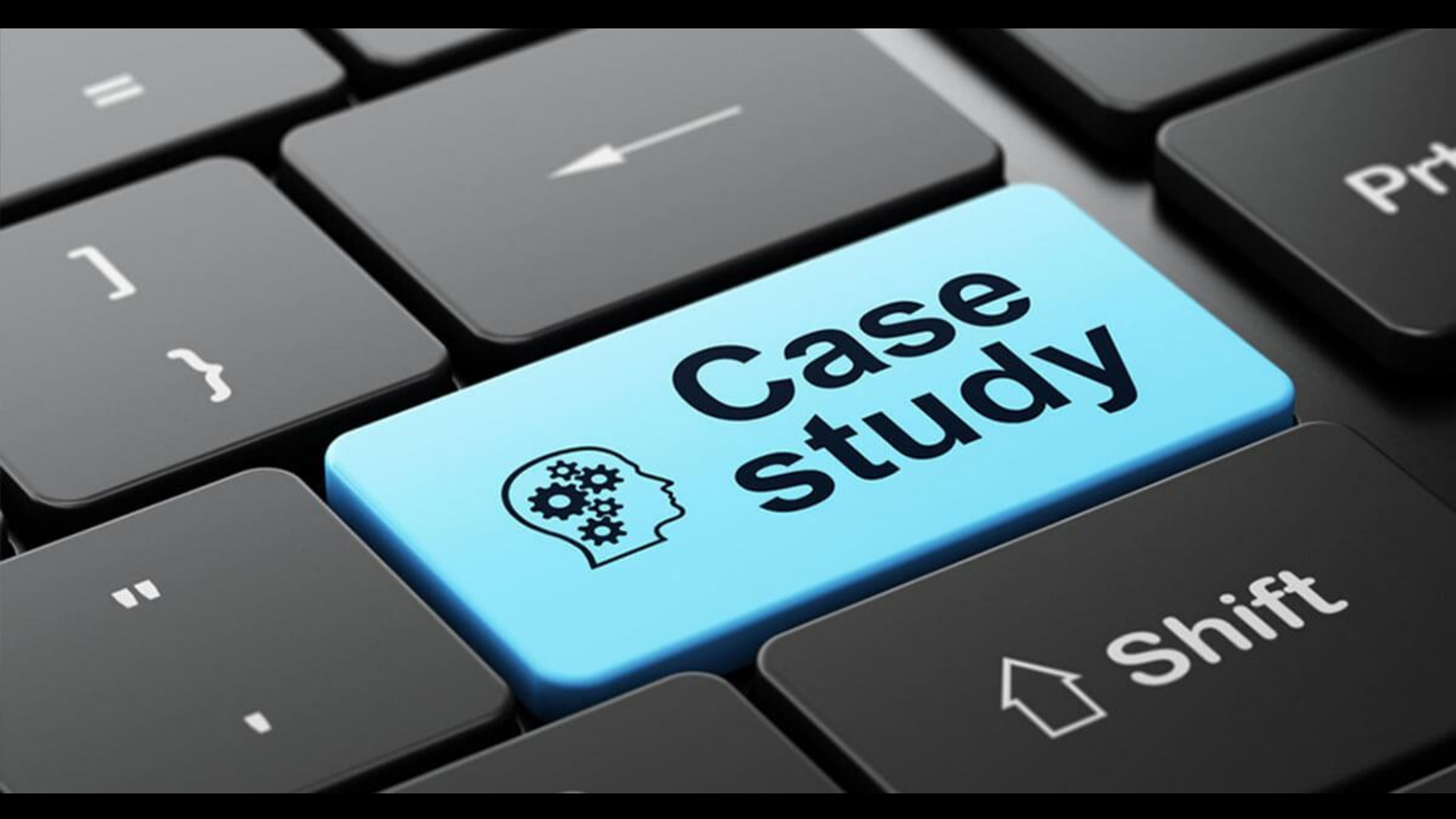
Geen handmatige acties nodig voor hertest

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

`_Email:` `bas@ontestautomation.com`

`_Blog:` `http://www.ontestautomation.com`

`_LinkedIn:` `https://www.linkedin.com/in/basdijkstra`

`_Twitter:` `@_basdijkstra`