Presentation 1

Test Automation – What YOU need to know!

By Michalis Kostikoglou and Phong Tran

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Story: Returns go to stock

As a store owner
In order to keep track of stock
I want to add items back to stock when they're returned.

Scenario 1: Refunded items should be returned to stock
Given that a customer previously bought a black sweater from me
And I have three black sweaters in stock.
When he returns the black sweater for a refund
Then I should have four black sweaters in stock.

Scenario 2: Replaced items should be returned to stock
Given that a customer previously bought a blue garment from me
And I have two blue garments in stock
And three black garments in stock.
When he returns the blue garment for a replacement in black
Then I should have three blue garments in stock
And two black garments in stock.

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Test Automation
What YOU need to know!

CONEXXIA

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Our Team

Phong Tran | Conexxia Managing Director

Michalis Kostikoglou | Conexxia Managing Director

Vikram Thaduri | Test Automation Guy

CONEXXIA

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What you need to know about Test Automation

Understand the need and why

When is the right time

How to get started

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“Quality is not an act, it is a habit.”

—ARISTOTLE, GREEK PHILOSOPHER

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UNDERSTAND THE NEED AND WHY

A more **uncommon** point of view on what test automation is and the need for it

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Test automation = Immediate **feedback**

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Faster feedback enable quick detection and recovery of problems to

increase quality and confidence

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I don’t want any manual testers. Zero.

— GROUP CIO, MAJOR FINANCIAL SERVICES COMPANY

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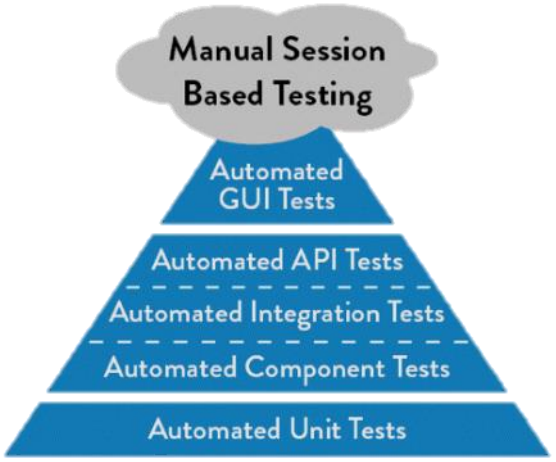
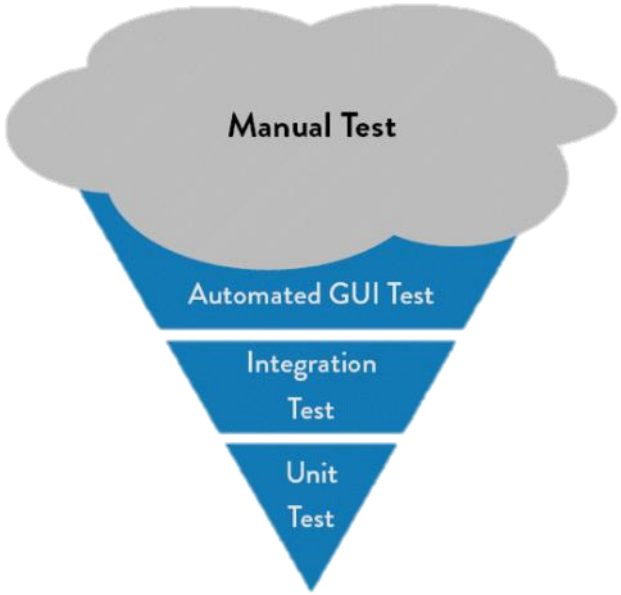
Ideal vs. Non-Ideal Testing Pyramids



The Ideal Testing Automation Pyramid



The Non-Ideal Testing Automation Inverted Pyramid

(Source: Martin Fowler, "Test Pyramid")

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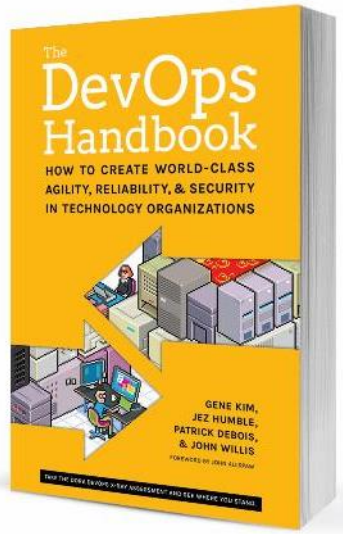
Recommend Read

1. Principles of flow, feedback, and continual learning
2. Automation testing practices
3. Case studies



The DevOps Handbook

itrevolution.com/devops-handbook

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WHEN IS THE RIGHT TIME?

Is test automation a phase? What about regression and progression testing?

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Common tools

Jenkins

php MySQL

SoapUI by SMARTBEAR

Java

Se

ORACLE SERVICE BUS

Maven

hp Quality Center

Atlassian

TIBCO

git

amazon web services

APACHE JMeter

TOSCA TESTSUITE

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Common tools

Open source vs. licenses

Open source

Jenkins

php MySQL

Java

Se

Maven

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git

APACHE JMeter™

Licensed

Atlassian

ORACLE SERVICE BUS

TOSCA TESTSUITE

TIBCO®

hp Quality Center

amazon web services

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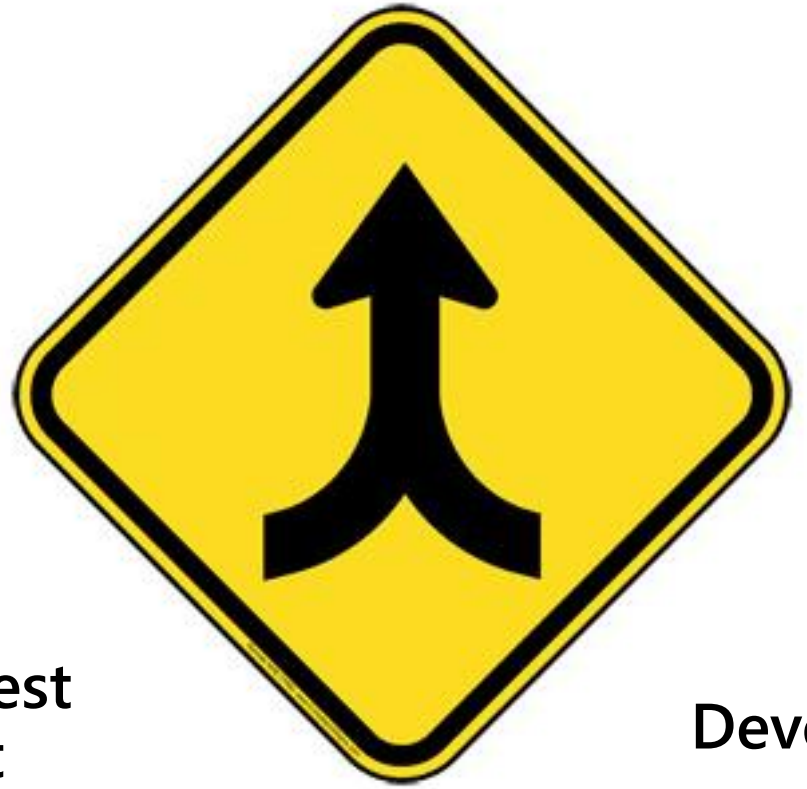
Common tools

Open source vs. licenses

Basic skills

Test Automation Engineer



Manual Test Analyst

Developers

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Is there such a thing as a “right” time to automate testing?

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Is there such a thing as a “right” time to automate testing? Yes, when…

Intensive manual test steps

Repetitive tests such as regression

Short release cycles or deployments

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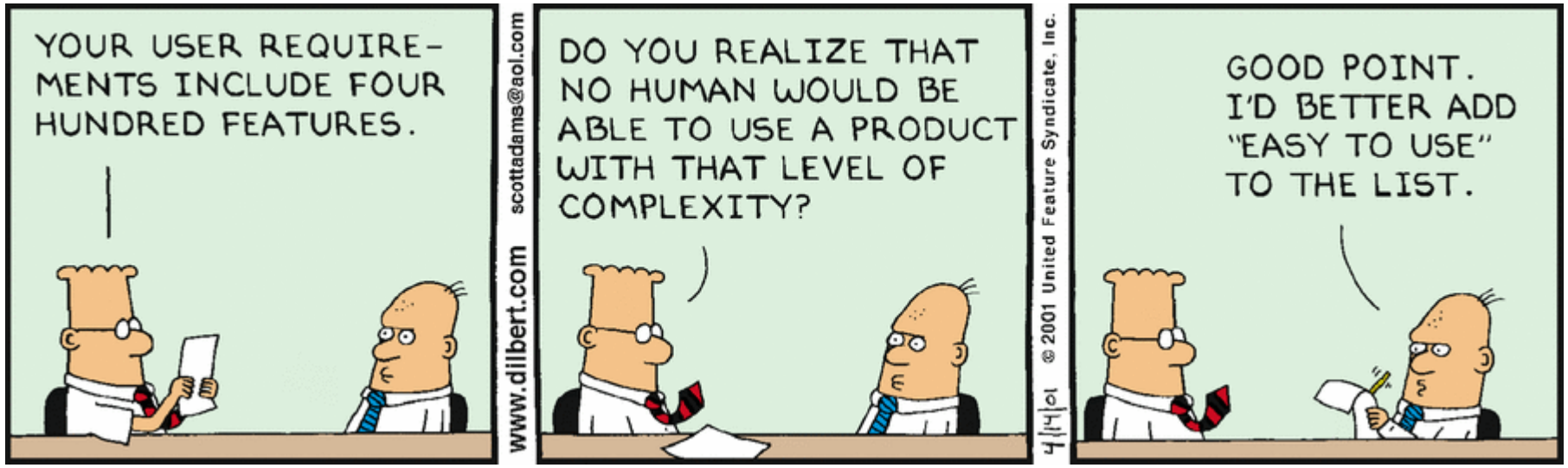
?

How many times have you seen this?



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HOW TO GET STARTED

A brief guide on where to start and some key learnings to accelerate your path towards becoming a **great** test automation engineer

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THE 5 KEY AREAS OF KNOWLEDGE
following this sequence

1

Code Language

2

Integrated Development Environment (IDE)

3

Testing Tools

4

Build Tools

5

Continuous Integration / Continuous Delivery (CI-CD)

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1

Understand the different code languages

Code Language

Java

C#

Python

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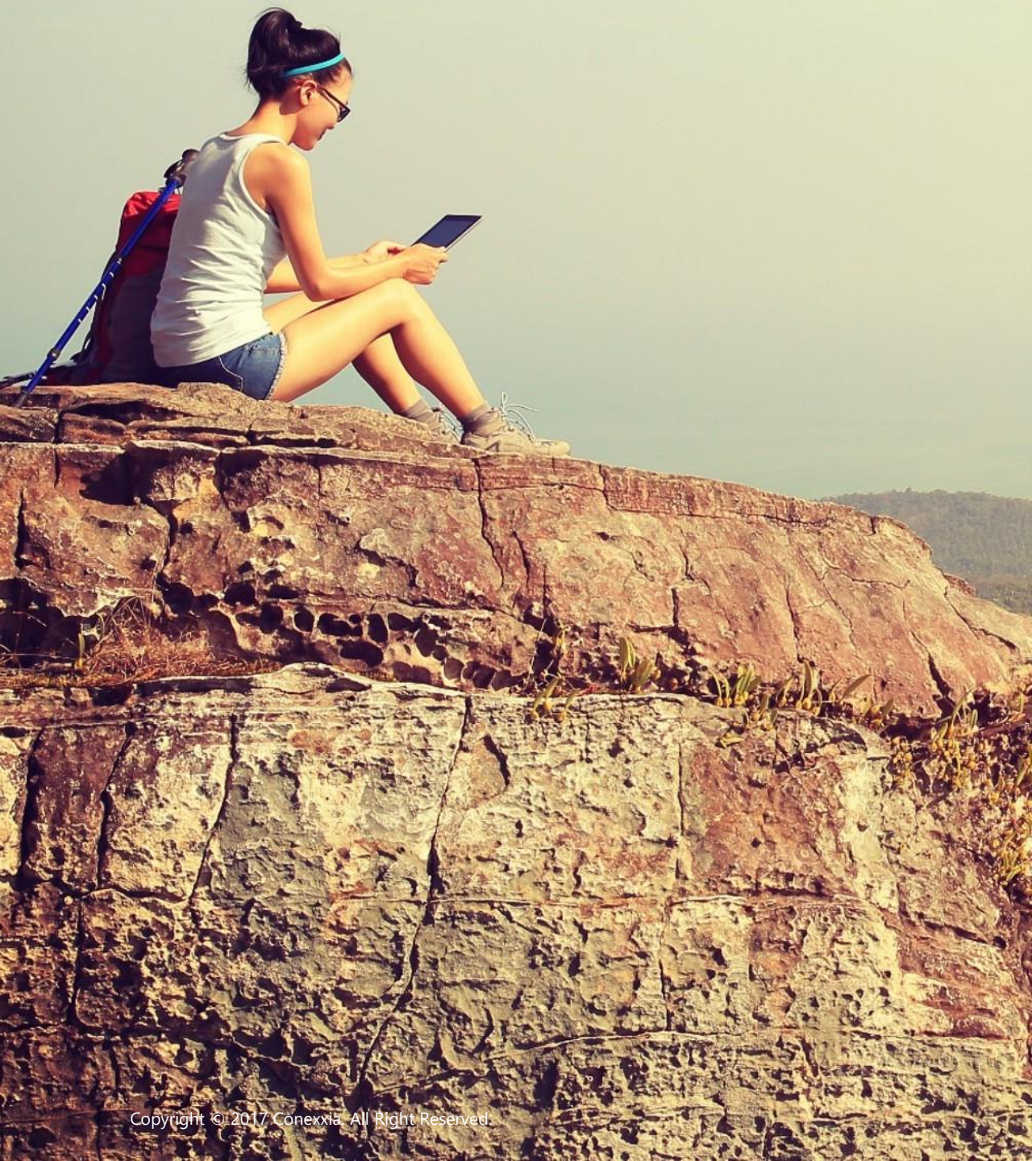

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2

A single program in which all development is done

Integrated Development Environment (IDE)

Eclipse

IntelliJ

PyCharm

3

Popular open source testing tools

Testing Tools

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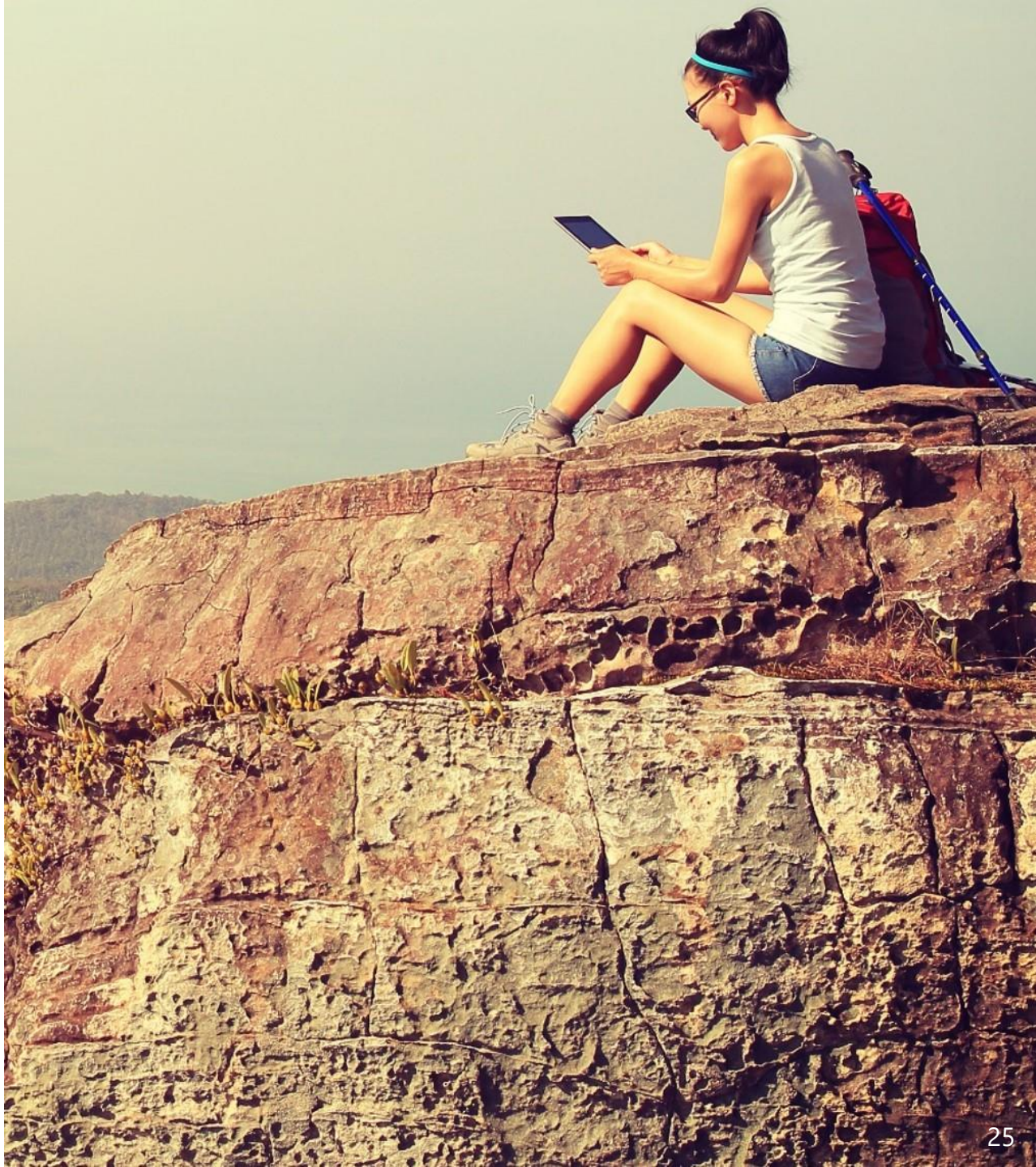
4

Build automation tools used primarily for Java

Build Tools

Maven™

gradle



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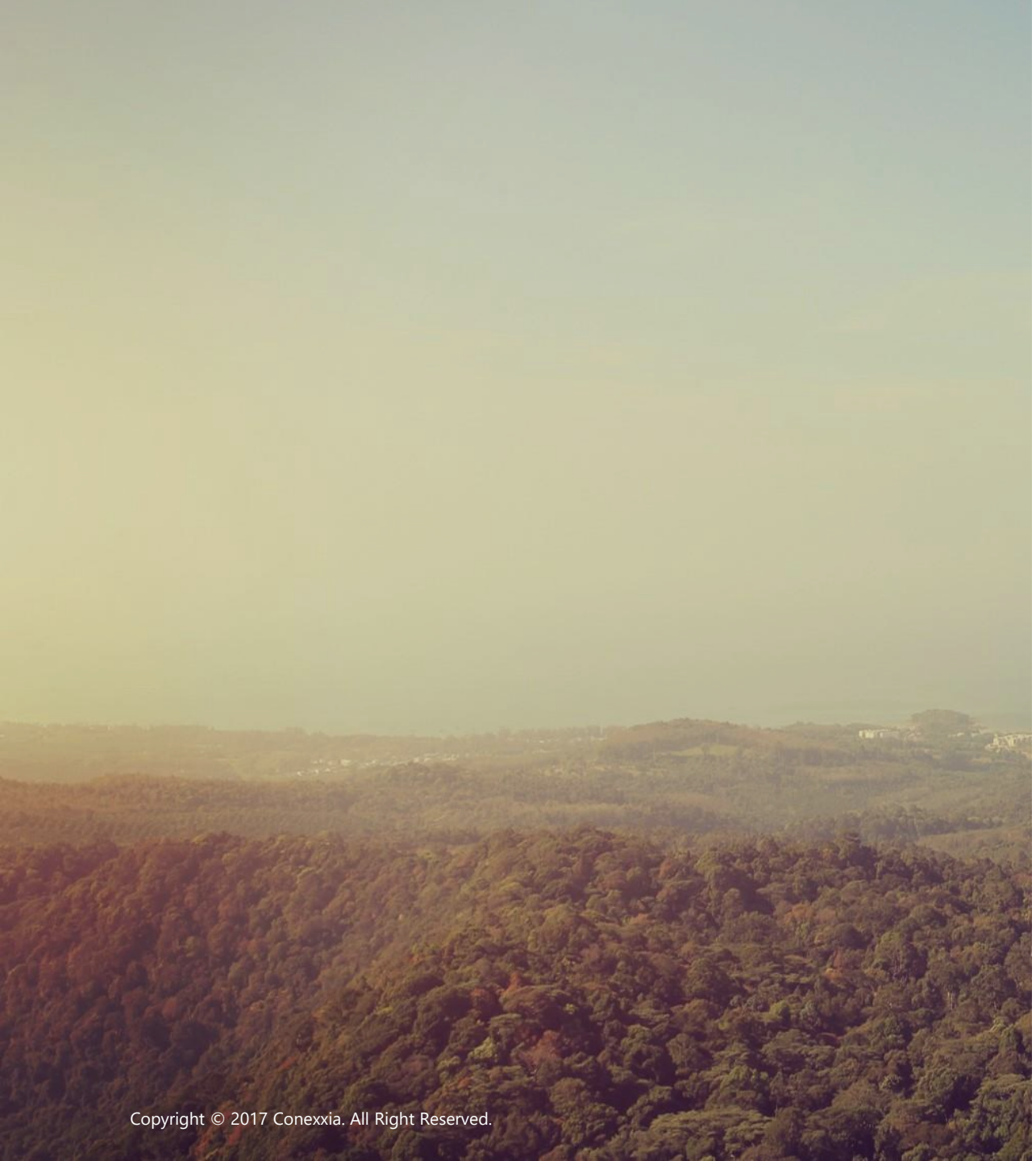

5

Tie automated builds, tests, and releases together in a single workflow

Continuous Integration / Continuous Delivery (CI-CD)

Jenkins

Bamboo

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Example Learnings

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Presentation only

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THANK YOU

About Conexxia

Conexxia is a small sized, nimble technology consulting company with a passion for automation and DevOps. We help companies significantly improve their project delivery performance through adoption of agile delivery methodologies and deployment of automation frameworks.

We work with companies across financial services, public sector, and telecommunications industries offering innovative products and services for their digital transformation journey. Our mission is to help customers achieve success by transforming businesses to become digital leaders and optimise value through automation and agile delivery.

Contact us and see how we can help: info@conexxia.com.au