

 0



Dirk Lehmann added a note just now

Beyond Source Code Versioning -

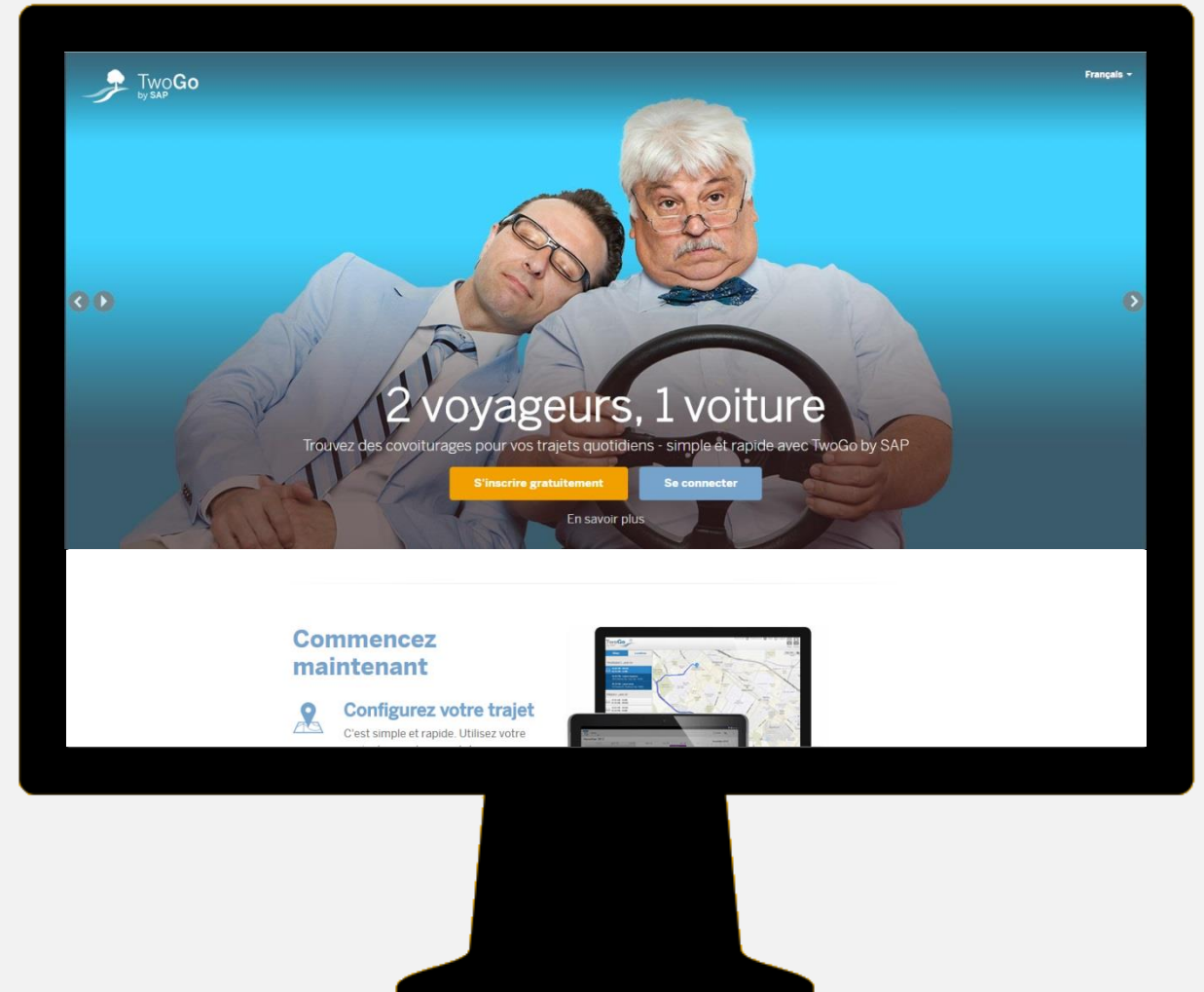
git at 



Add a line note

Dirk who?

- With SAP since 2001
- Keeps stuff running at <https://www.twogo.com>
- First product in SAP history which delivers daily
- [@doergn](#)



SAP – No sure...!?

- Largest business software vendor in the world
 - ~74k employees
 - ~19k developers
- Our customers produce...
 - > 52% of the world's movies
 - > 86% of the world's athletic footwear
 - > 70% of the world's chocolate
 - > 72% of the world's beer



Project Explorer

- BASIS (partly loaded)
 - S_NWDEMO (partly loaded)
 - S_EPM_STAKEHOLDERS (partly loaded)
 - S_EPM_HANA
 - S_EPM_OIA
 - Enhancements
 - Message Classes
 - Package Interfaces
 - Source Library
 - CL_EPM_DGC_HAN
 - CL_EPM_OIA
 - CL_EPM_OIA_DEFA
 - CX_EPM_OIA_EXCE
 - IF_BP_CLASSIFICAT
 - RS_EPM_DGC_HAN
 - Transactions
- BSTPI_STRUCTURE
- BW_CONTENT
- BW_SAPI
- C2_SERVER

Outline

- CL_EPM_OIA
 - TY_AMOUNT
 - TY_CURRENCY_RECORD
 - TY_OPEN_ITEM
 - TT_OPEN_ITEMS
 - TY_AVG_DELAY
 - TT_AVG_DELAYS
 - GC_DEFAULT_BP_RANK
 - GC_DEFAULT_CURRENCY_CODE
 - GC_STATUS_PAID
 - CLASS_CONSTRUCTOR
 - GET_AVG_DELAY_BP
 - GET_AVG_DELAY_LIST

[NPL] CL_EPM_OIA **[NPL] CX_EPM_OIA_EXCEPTION**

```

METHOD get_avg_delay_bp.
**This method returns a line with the average duration between
* invoice issue and invoice settlement for the business partner and period

DATA: lt_paid TYPE STANDARD TABLE OF ty_bp_paid WITH DEFAULT KEY,
      lv_ftstmp1 TYPE timestamp,
      lv_amount TYPE ty_avg_delay-gross_amount,
      lv_paid TYPE c,
      lv_ttstmp1 TYPE timestamp,
      lt_bp_delays TYPE STANDARD TABLE OF ty_avg_delay WITH DEFAULT KEY,
      ls_bp_delay LIKE LINE OF lt_bp_delays[],
      lv_reckoning_date TYPE sydatum,
      lv_issued_date TYPE sydatum.

FIELD-SYMBOLS: <fs_paid> TYPE ty_bp_paid.

*****

check_date(
  EXPORTING
    iv_from_date = iv_from_date
    iv_to_date = iv_to_date ).

*****

*convert input date into a timestamp
lv_ftstmp1 = make_timestamp( iv_from_date ).
lv_ttstmp1 = make_timestamp( iv_to_date ).
    
```

Global Class | Class-relevant Local Types | Local Types | Test Classes | Macros

Task Reposit... Task List Problems Properties Templates Feed Reader Transport Or... ABAP Comm...

type filter text

# Unread	Title	Date	Time	Author
0	NPL_001_developer_en			
0	Runtime Errors caused by me (DEVELOPER) - Total:0	04.07.2013	17:56:12	
0	Runtime Errors for objects I am responsible for (DEVELOPER)	04.07.2013	17:56:11	
0	System Messages	04.07.2013	17:56:12	

git flavors and tools at SAP

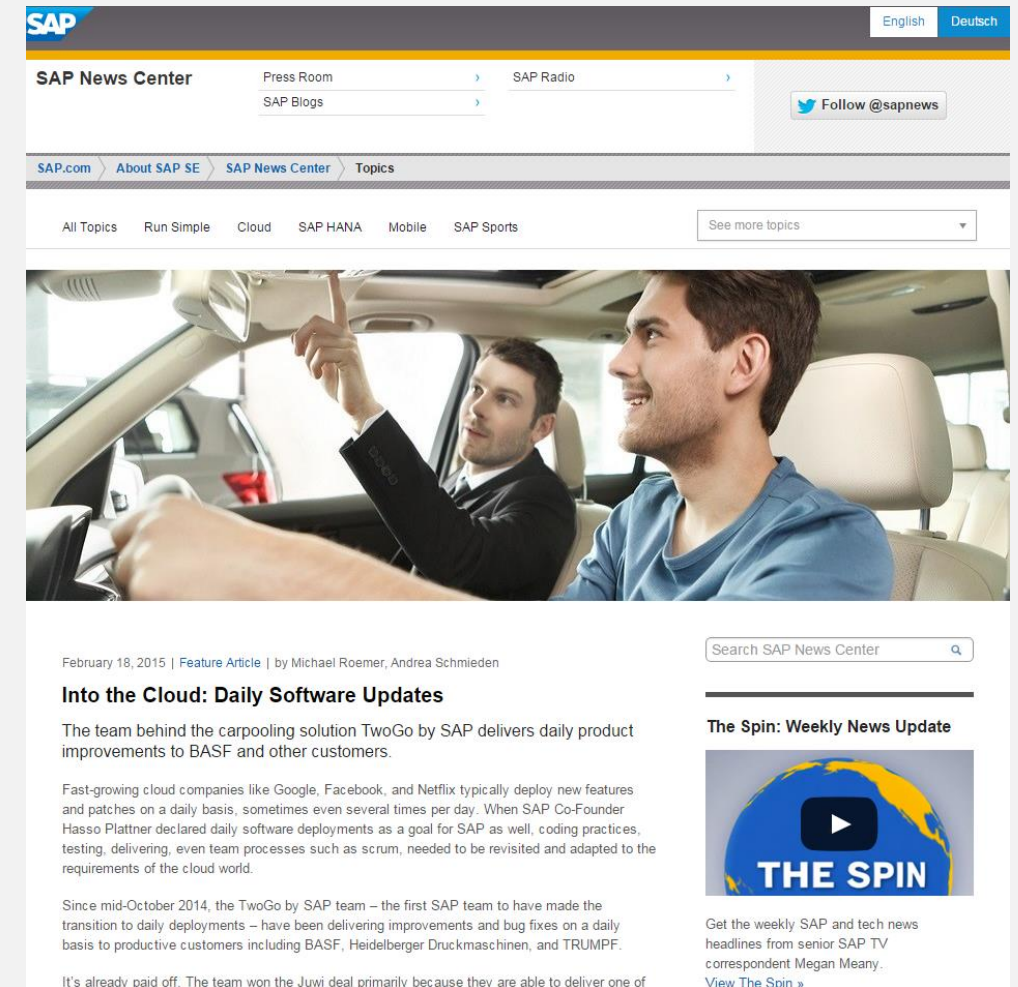


Gerrit

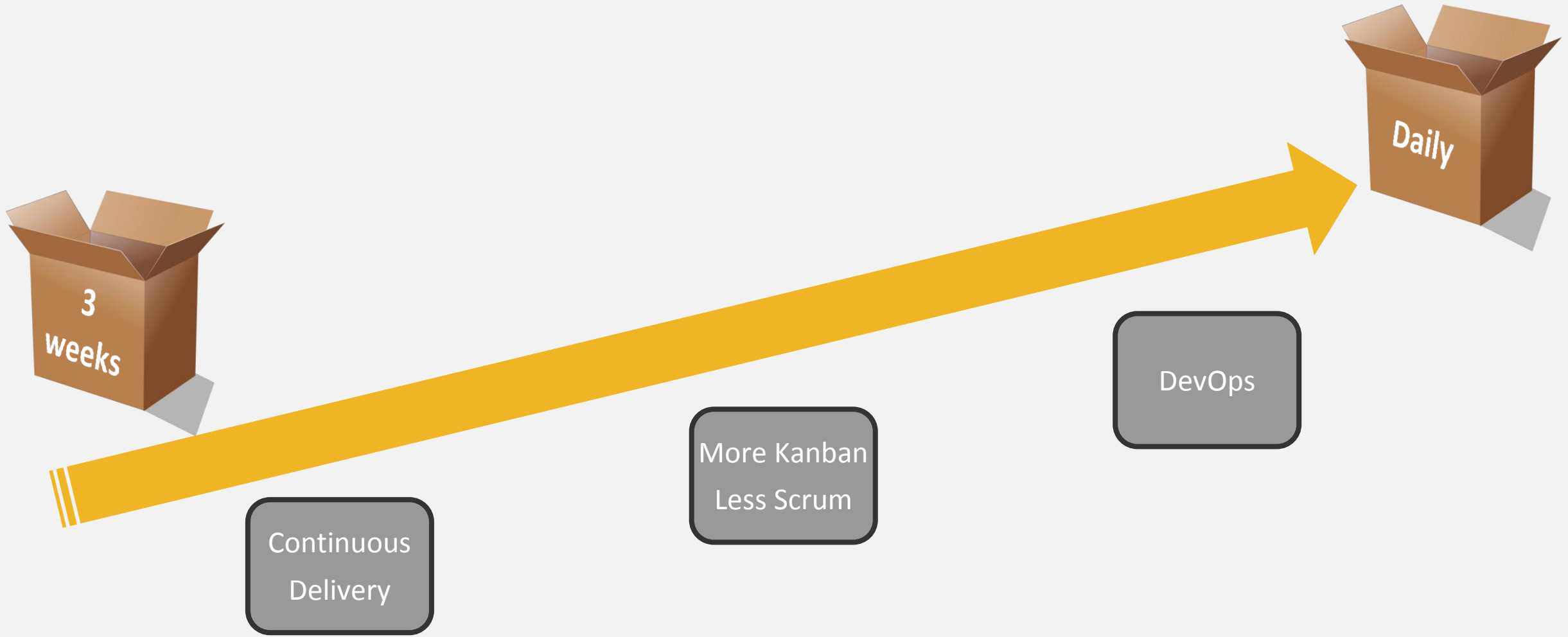


TwoGo – Daily deliveries

- TwoGo - Cloud based ride sharing service
- Delivers daily
- Continuous Delivery
- DevOps
- Use Enterprise GitHub



What we changed



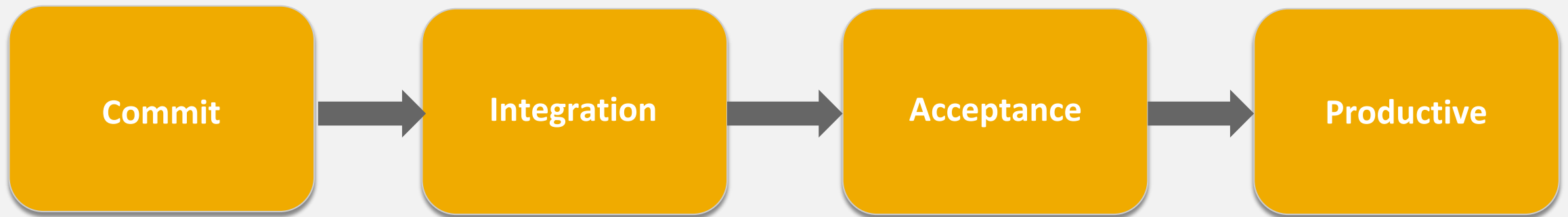
Continuous Delivery

“The goal of continuous delivery is to give accurate feedback as quickly as possible about the whole development process.”

- The faster the feedback, the less waste
- The less waste, the lower the cost
- Faster feedback means better results to customers
- Happier customers = more customers, increased revenue
- Increased revenue and lower cost = better business results

„Measuring Mobile Apps“, Dec. 2013

Continuous Delivery – Deployment Pipeline



Continuous Delivery – Deployment Pipeline

Commit

```
[workspace] $ D:\Maven\apache-maven-3.0.4\bin\mvn.bat -f backend/pom.xml -Dmaven.repo.local=D:\Build\jobs\Server_Web_DEV\workspace/.m2/repository -Dsurefire.useFile=false -DcodeLine=dev -DskipTests
- - - - -
[INFO] Error stacktraces are turned on.
[INFO] Scanning for projects...
Downloaded: http://spvdfml0380.wdf.ssp.corp.s081.nexus/content/groups/public-snapshots/com/sap/twogo/build/super-pom/4.26.0-SNAPSHOT/maven-metadata.xml
607/607 B
Downloaded: http://spvdfml0380.wdf.ssp.corp.s081.nexus/content/groups/public-snapshots/com/sap/twogo/build/super-pom/4.26.0-SNAPSHOT/maven-metadata.xml (607 B at 1.5 KB/sec)
[WARNING]
[WARNING] Some problems were encountered while building the effective model for com.sap.twogo.servicewebwar:4.26.0-SNAPSHOT
[WARNING] 'version' contains an expression but should be a constant. @ com.sap.twogo.build:super-pom:4.26.0-SNAPSHOT,
D:\Build\jobs\Server_Web_DEV\workspace/.m2/repository/com/sap/twogo/build/super-pom/4.26.0-SNAPSHOT/super-pom-4.26.0-SNAPSHOT.pom, line 25, column 18
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[WARNING]
[INFO]
[INFO] -----
[INFO] Building TwoGo Backend 4.26.0-SNAPSHOT
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Downloaded: http://spvdfml0380.wdf.ssp.corp.s081.nexus/content/groups/public-snapshots/com/sap/twogo/ldapauth/gsm-server/4.26.0-SNAPSHOT/maven-metadata.xml
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Downloaded: http://repo.maven.apache.org/maven2/com/google/guava/guava/maven-metadata.xml
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Downloaded: http://spvdfml0380.wdf.ssp.corp.s081.nexus/content/groups/public-snapshots/com/google/guava/guava/maven-metadata.xml (2 KB at 16.7 KB/sec)
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[INFO]
[INFO] --- maven-clean-plugin:1.5.0:clean (default-clean) @ web ---
[INFO] Deleting D:\Build\jobs\Server_Web_DEV\workspace\backend\target
[INFO]
[INFO] --- android-maven-plugin:1.6.0:compile (default) @ web ---
Downloaded: http://spvdfml0380.wdf.ssp.corp.s081.nexus/content/groups/public-snapshots/com/google/guava/guava/maven-metadata.xml
```





Continuous Delivery – Deployment Pipeline

Commit

```
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-m -D clean deploy -P release -P twoGoPackage -P matchesPackage -P verifyOpladTranslation
[INFO] Error stacktraces are turned on.
[INFO] Scanning for projects...
Downloading: http://spvdfml0380.wdf.sap.corp:8081/nexus/content/groups/public-snapshots/com/sap/twogo/build/super-pom/4.26.0-SNAPSHOT/maven-metadata.xml
607/607 B
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[INFO]
[INFO] --- maven-compiler-plugin:3.6.0:compile (default-compile) @ web ---
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```





Continuous Delivery – Deployment Pipeline

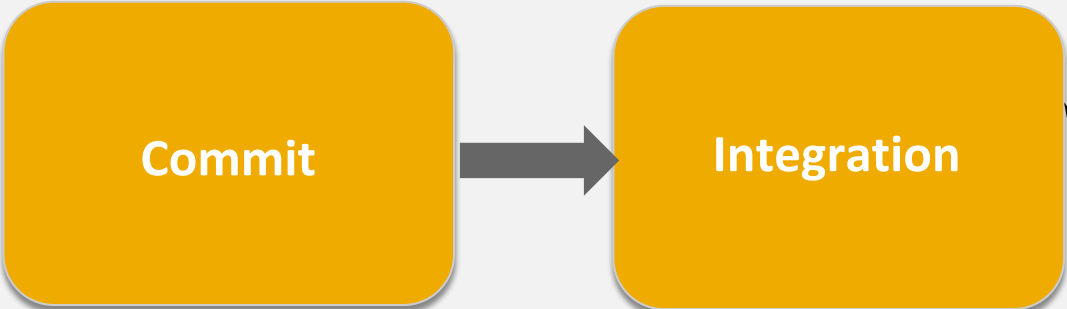
Commit

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792/792 B
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[INFO]
[INFO] --- maven-compiler-plugin:2.6.0:compile (default-compile) @ web ---
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```

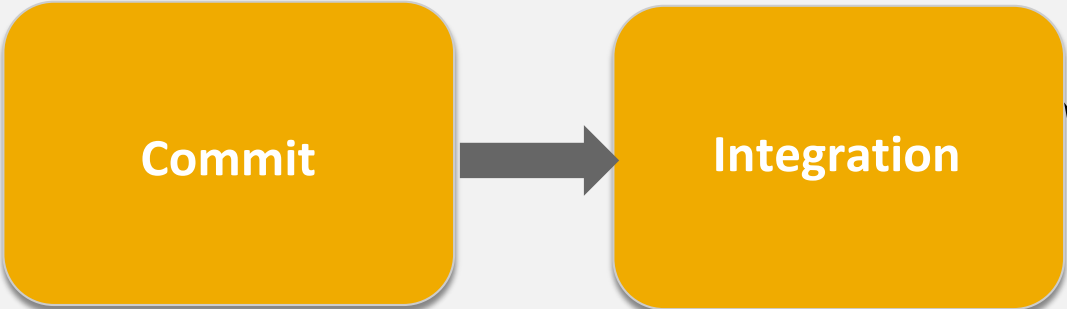
Apache
maven

Continuous Delivery – Deployment Pipeline

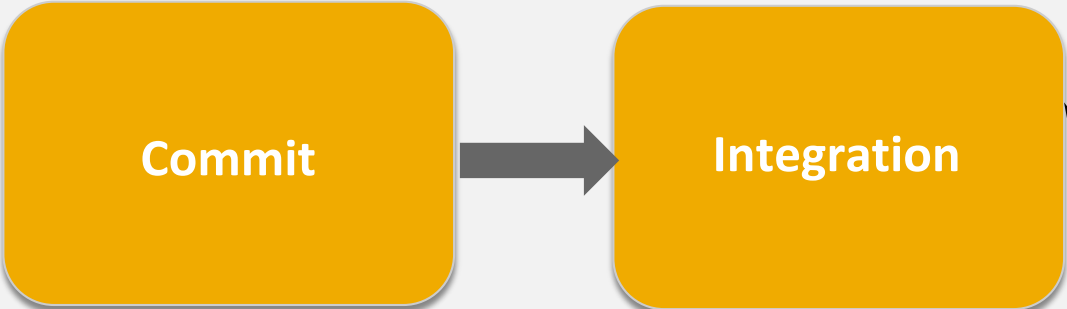
#SayGitHubCounter



Continuous Delivery – Deployment Pipeline

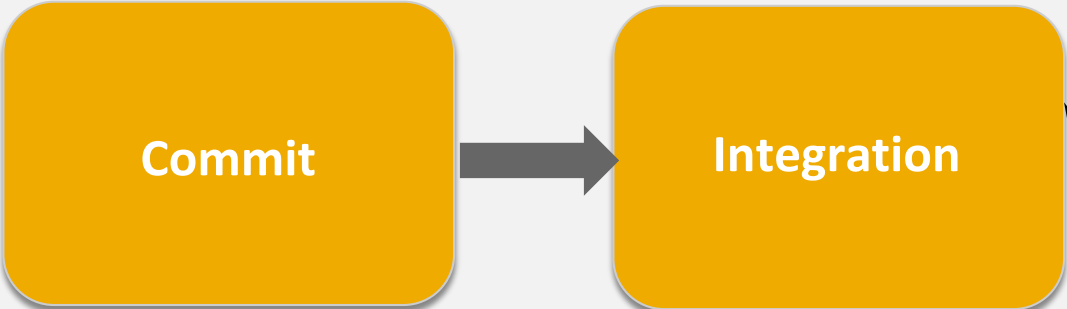


Continuous Delivery – Deployment Pipeline



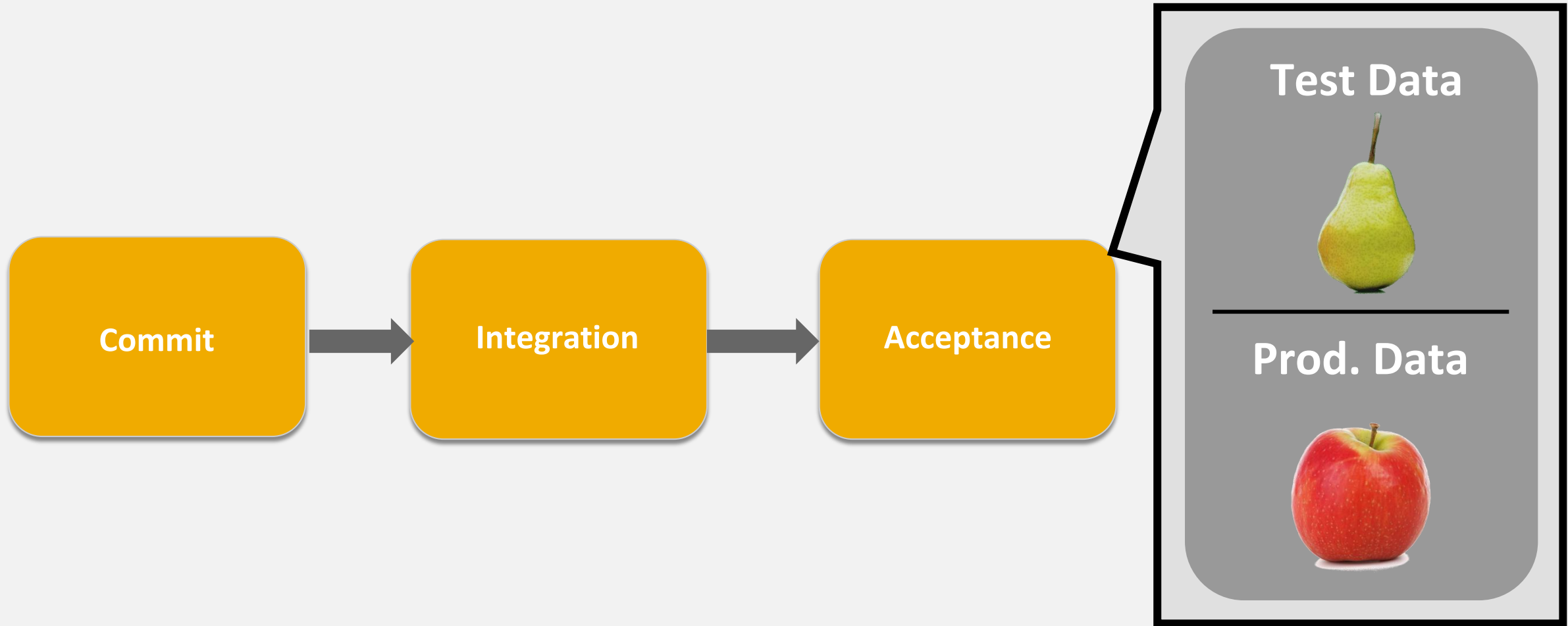
Continuous Delivery – Deployment Pipeline

#SayGitHubCounter



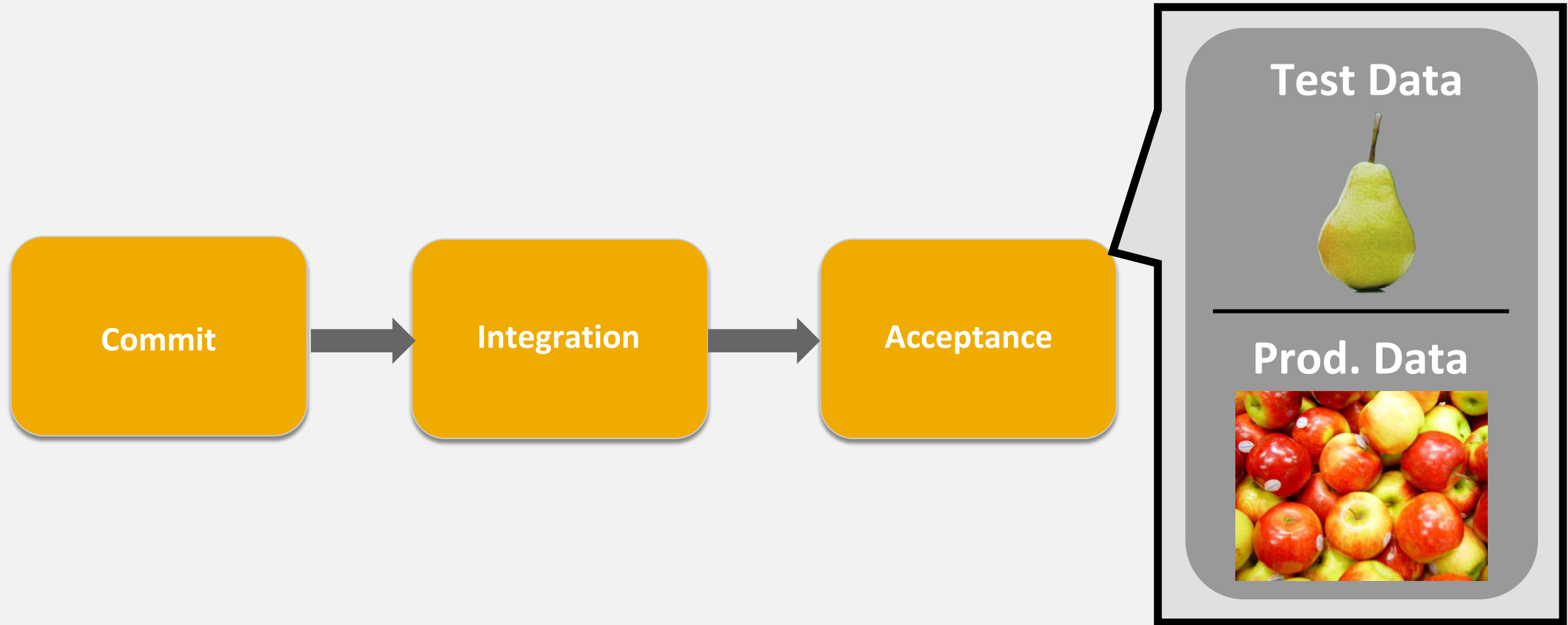


Continuous Delivery – Deployment Pipeline



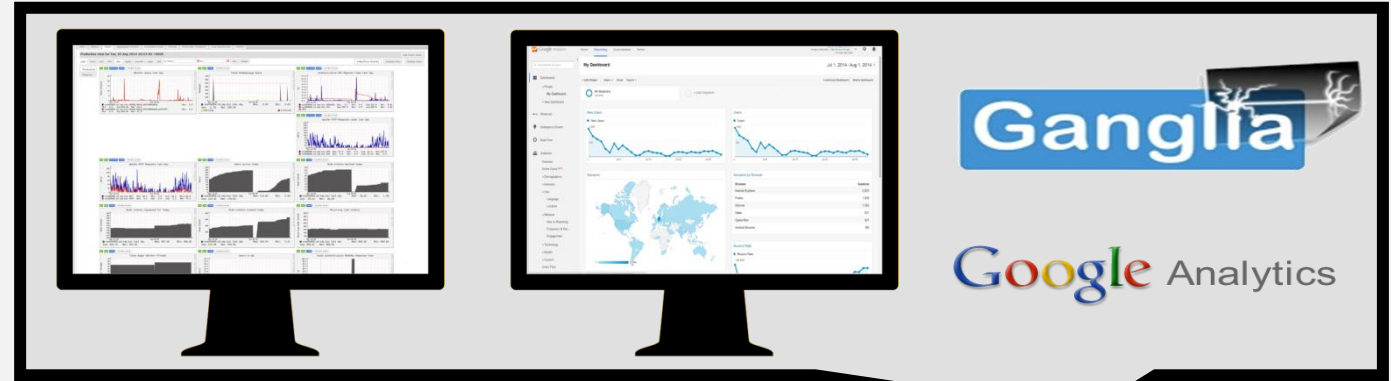


Continuous Delivery – Deployment Pipeline



Continuous Delivery – Deployment Pipeline

#SayGitHubCounter



Commit

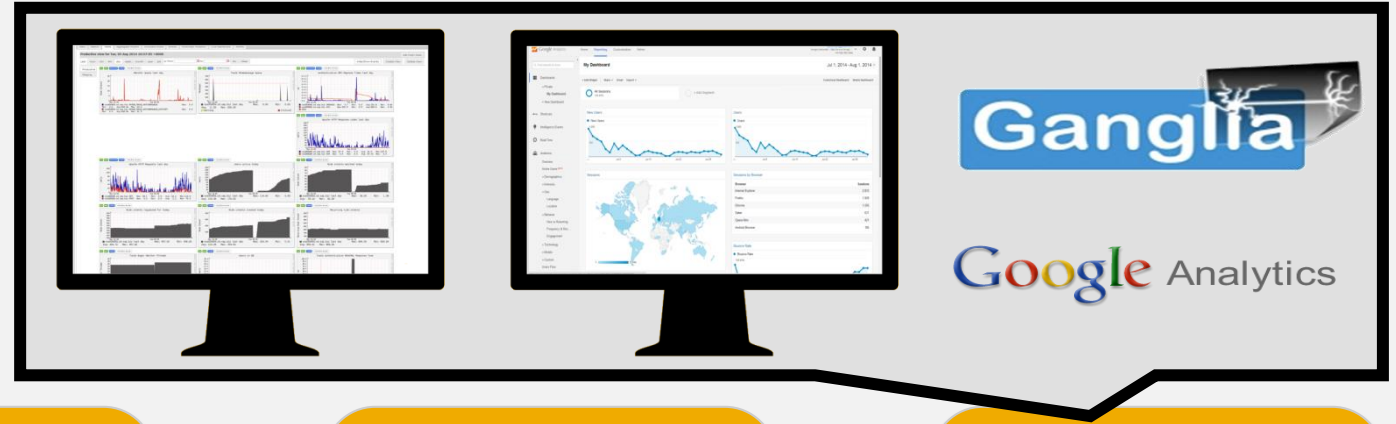
Integration

Acceptance

Productive

Continuous Delivery – Deployment Pipeline

#SayGitHubCounter



Commit

Integration

Acceptance

Productive

Continuous Delivery – Deployment Pipeline

#SayGitHubCounter



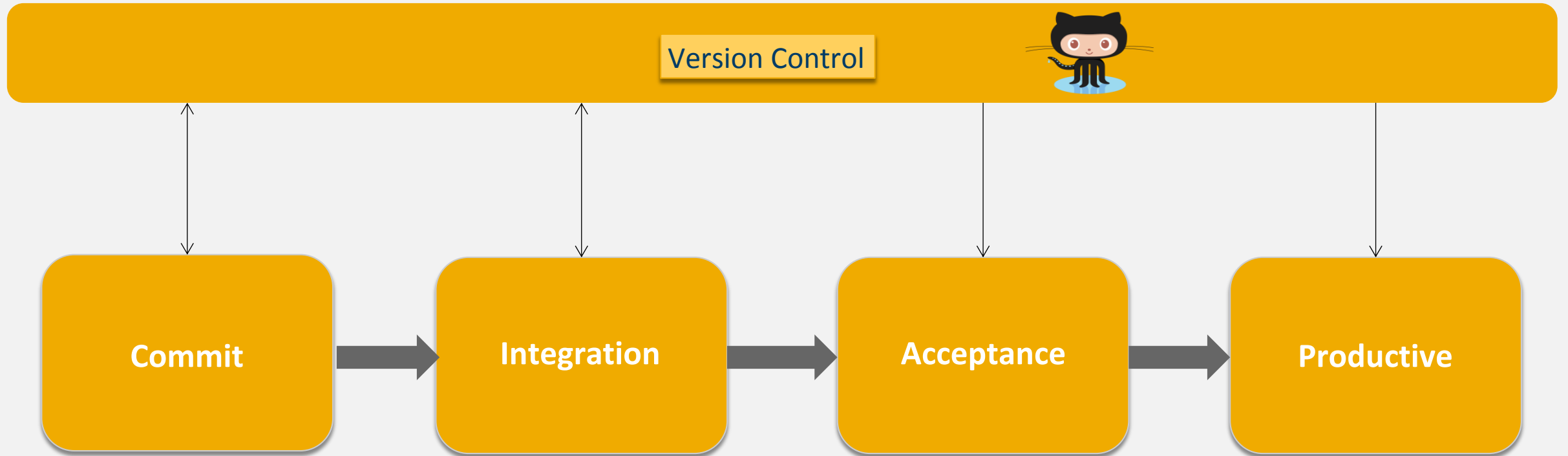
Commit

Integration

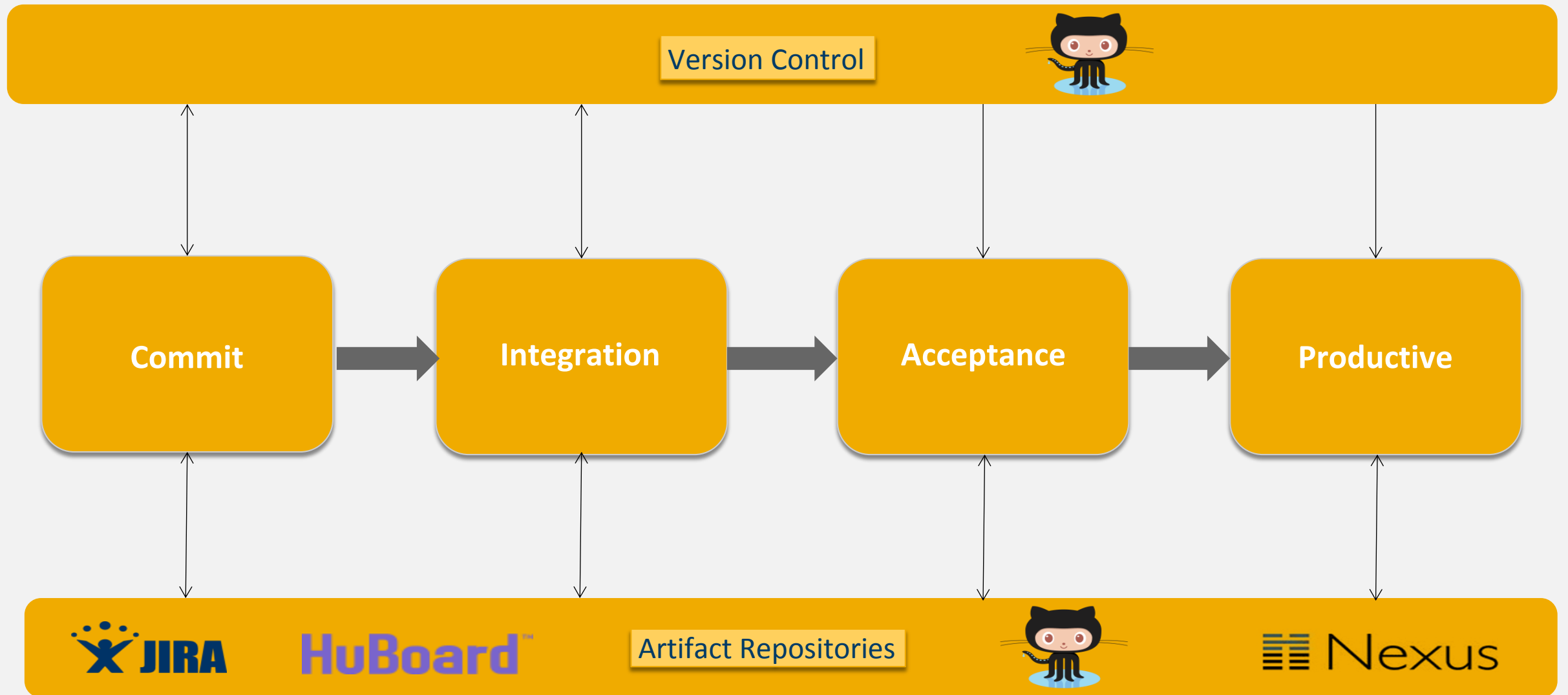
Acceptance

Productive

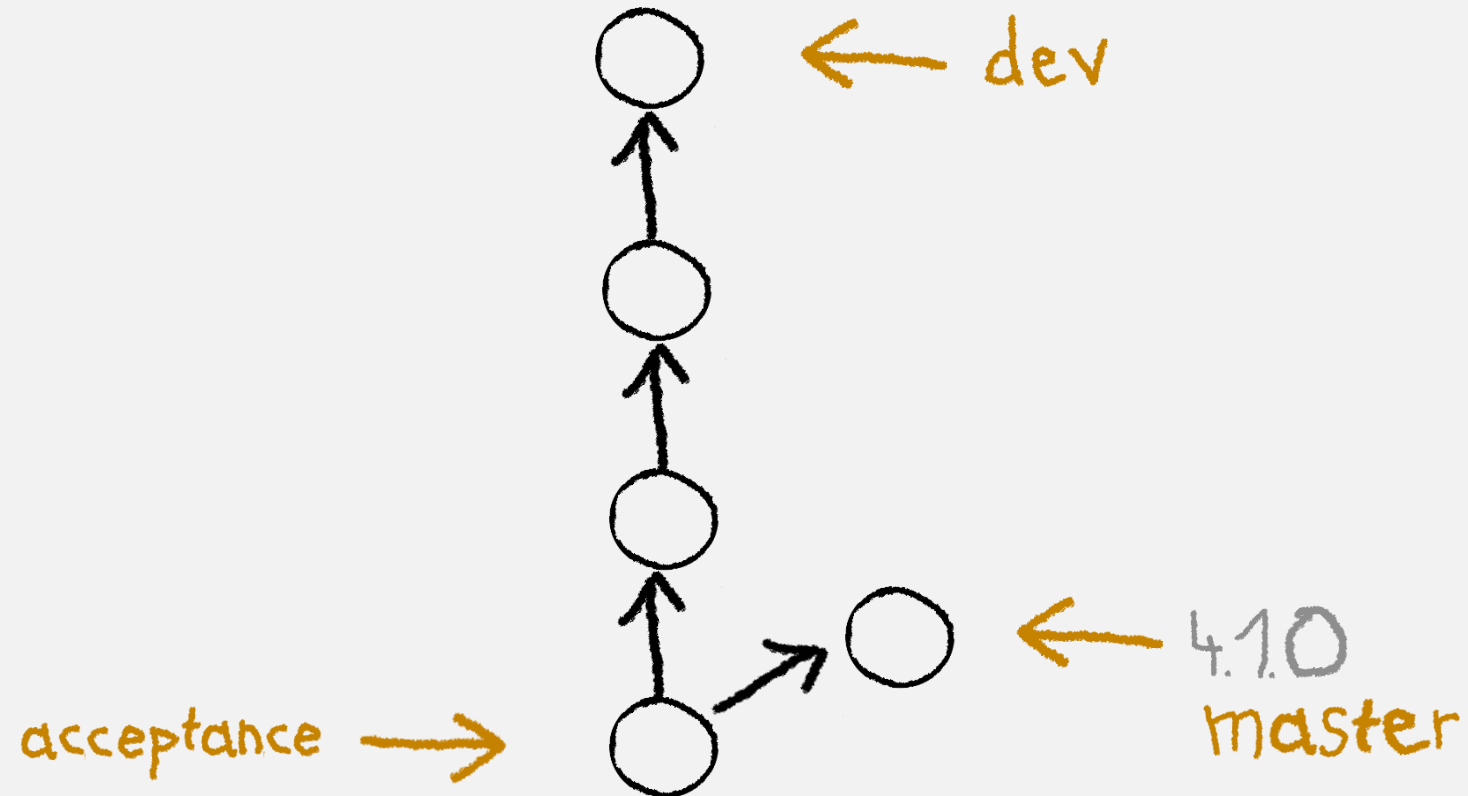
Continuous Delivery – Deployment Pipeline



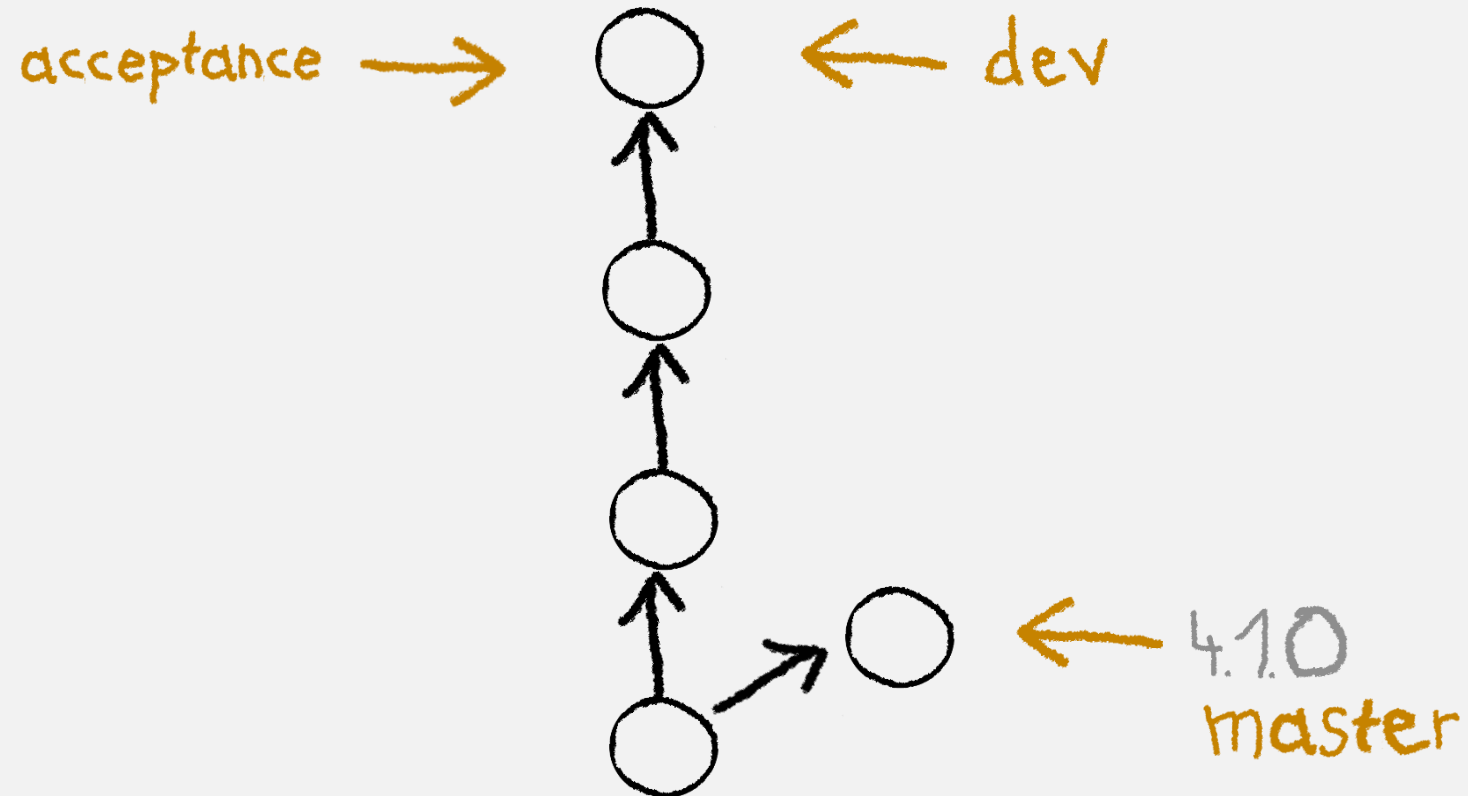
Continuous Delivery – Deployment Pipeline



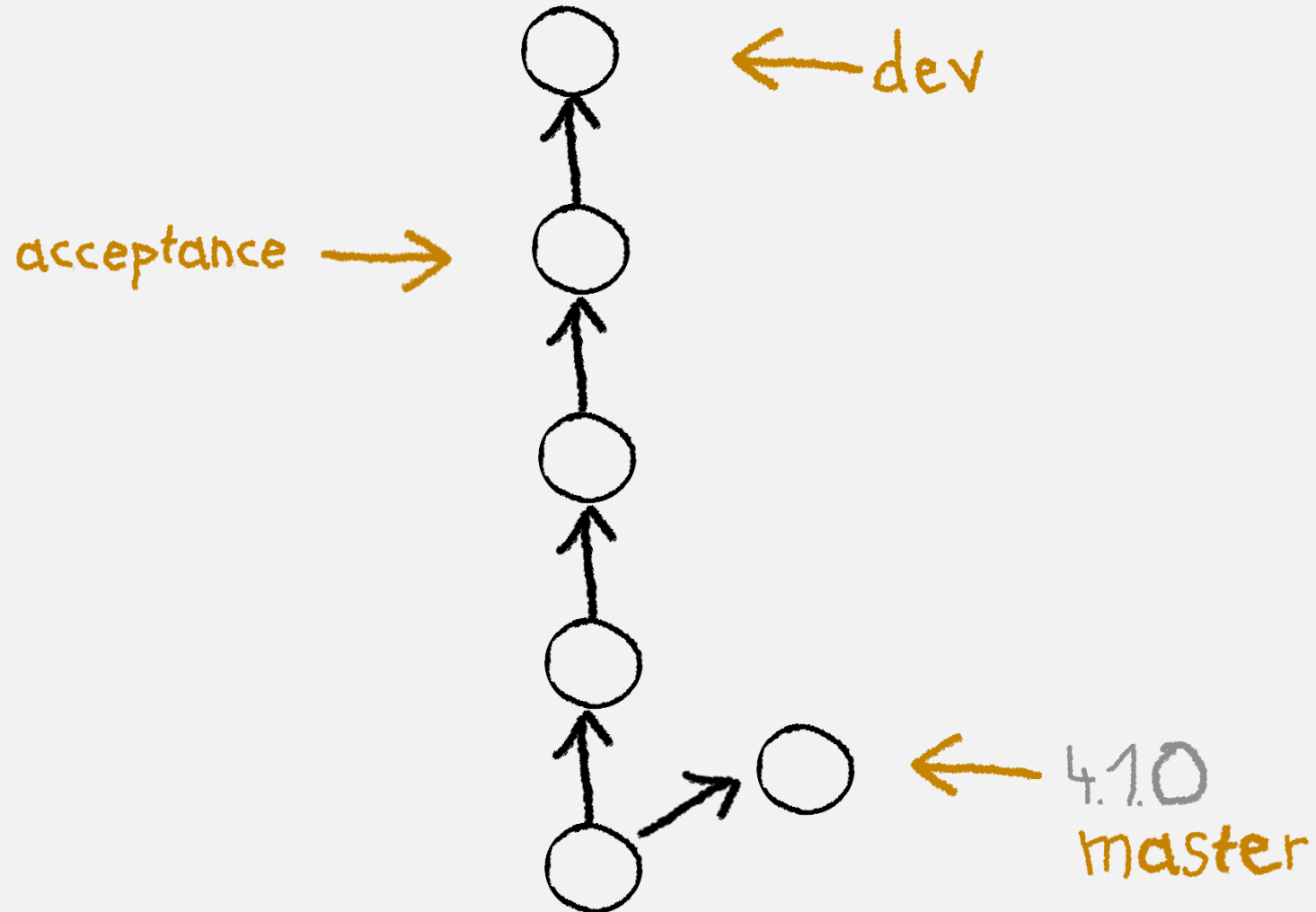
Branches



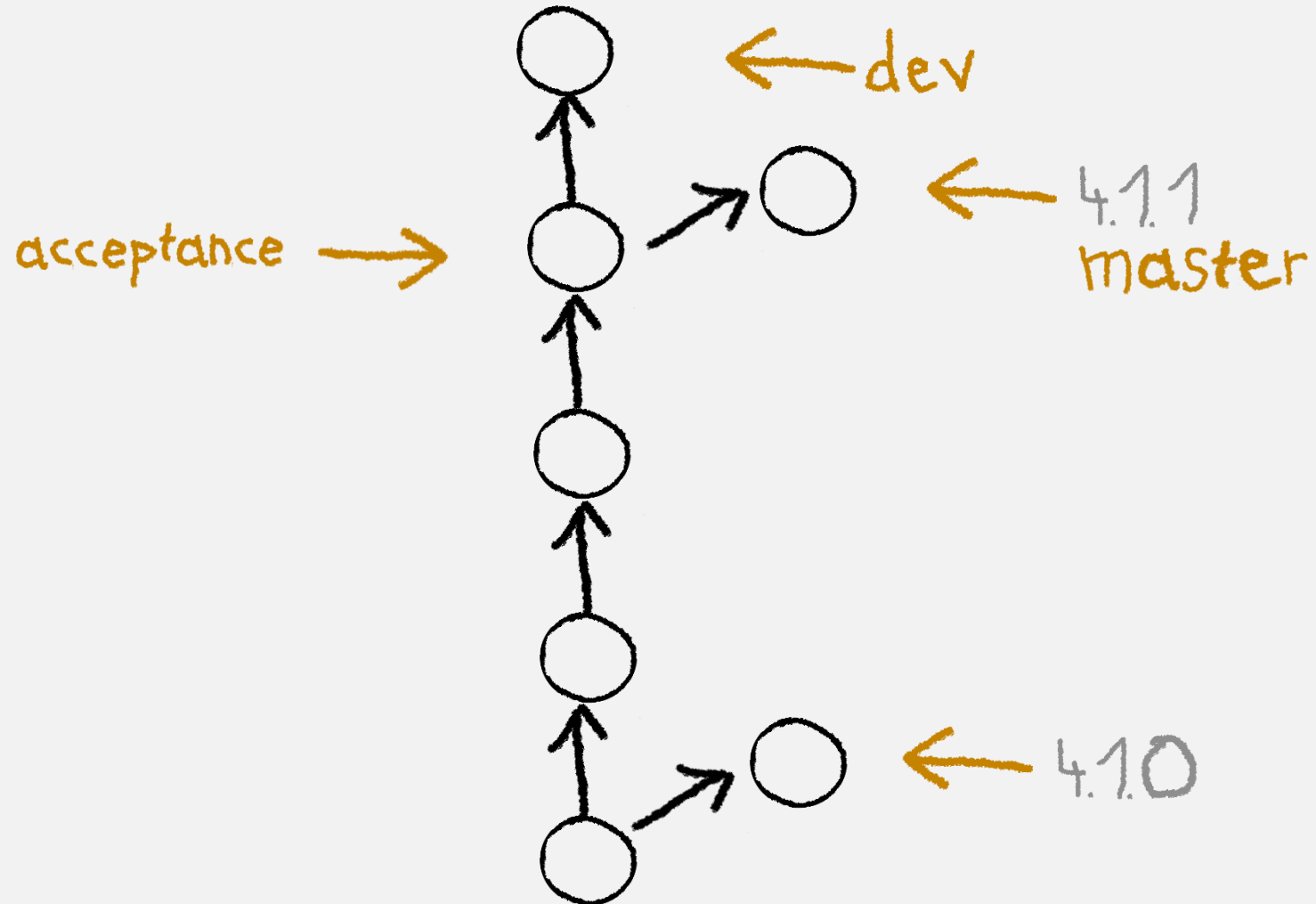
Branches



Branches



Branches



And the beat goes on...and on...and on...and on...and on...

Pre-release

v. 4.131.0

38440a9

v. 4.131.0

d036774 released this 17 hours ago - 1 commit to master since this release

Changes

v. 4.130.0...v. 4.131.0

Issues

#1345

Source code (zip)

Source code (tar.gz)

Edit

Pre-release

v. 4.130.0

05a3c7f

v. 4.130.0

d036774 released this a day ago - 26 commits to master since this release

Changes

v. 4.129.0...v. 4.130.0

Source code (zip)

Source code (tar.gz)

Edit

Latest release

v. 4.129.0

3b038a7

v. 4.129.0

d036774 released this 2 days ago - 40 commits to master since this release

New Feature

#1156 - Re-design reset password screen

Changes

4.128.1...v. 4.129.0

Source code (zip)

Source code (tar.gz)

Edit

Pre-release

4.128.1

c266bcc

4.128.1

d036774 released this 3 days ago - 70 commits to master since this release

Fix

Fix for #1474, unable to edit recurring intents with first occurrence in the past

Edit

The Hub





Filters

Create new issue

Backlog

- Send verification and rippler mails using info@twogo.com as sender #694
- Share ride via social does not use the shortened link #427
- As a user I want to have a TwoGo documentation for the new web UI #733
- As a BETA user I want to get redirected to the ScriptStorm UI after login #659
- Header: Broken layout for long labels #1521
- Enable new UI documentation #1522

Pull

- Watson: Enable Search by Address capability for User POIs and Ride Intents #740
- repair productive route data and keep it consistent #661
- Use Here.com SDK for displaying maps in Android app #692

Do

- As a QA person I want to see the iOS robot tests running again #494
- Improve MatchFinder Performance #516
- As a developer I want to make sure that DEV system is working (after each checkin) #500
- As a developer I want to remove/replace the Gamification Engine #519
- Support Company Logo #646

Review

- iOS 8 / xCode 6 / iPhone6 Adaptations #514

Release

- Add Company Logo in Android #617
- Display company logo if available in iOS #648

Social Coding



A word cloud of social coding terms. The words are arranged in a circular pattern, with 'Social' and 'RSS-Feed' at the top, 'Review' and 'Sharing' in the upper middle, 'Together' and 'Eco-System' in the middle, 'Follow' and 'Community' on the left, 'Team' and 'Collaborate' on the right, 'Webhooks' and 'Request Fork' in the lower middle, 'Services' and 'Visibility' at the bottom, and 'Pull' and 'Watch' at the bottom right. The words are in various shades of gray and sizes, with 'Social' and 'RSS-Feed' being the largest.

Social RSS-Feed
Review Sharing Wiki
Together Eco-System
Follow Community Team Collaborate
Webhooks Request Fork
Services Visibility Watch
Pull



This repository

Search or type a command

Explore Gist Help



Dirk Lehmann



PUBLIC



TwoGo / TwoGo

Watch 13

Unstar 10

Fork 4

TwoGo / README.md

or cancel



Code

Preview



Spaces 2

Soft wrap

```
1 TwoGo
2 =====
3
4 [TwoGo](https://www.twogo.com) by SAP sourcecode repository
5
6 Directory structure
7 -----
8 - **3rd Party**
9   Contains the Google Cloud Messaging (GCM) Server part. Required for PUSH notification to TwoGo Android App.
10 - **backend**
11   TwoGo main server components. (Matcher, JSON-API, Scheduler, ...)
12 - **build**
13   Contains 'super-pom' and 'utils' subprojects. All maven/build related utils go here.
14 - **matchfinder**
15   TwoGo matchfinder
16 - **multicar**
17   TwoGo multicar (Transportchains)
18 - **ui**
19   Contains all TwoGo user interfaces related stuff ('kraftwerk', 'caretaker', 'scriptstorm', 'testosteron')
20
21
22 More Information
23 -----
24 More development related information can be found in our [Trac project management](http://spwdfvm10380.wdf.sap.corp:8000) system
25
26 Our Kanban board is available at [HuBoard](https://huboard.mo.sap.corp/TwoGo/TwoGo#/)
27
28 Contributing
29 -----
30 1. Fork the repository on Github
31 2. Create a named feature branch (like 'add_component_x')
32 3. Write you change
33 4. Write tests for your change (if applicable)
34 5. Run the tests, ensuring they all pass
35 6. Submit a Pull Request using Github
36
37 License and Authors
38 -----
39 License: SAP AG
40 Authors: The TwoGo Team
```



Commit changes

Update README.md

Add an optional extended description...



Thank you

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[@doergn](https://twitter.com/doergn)



[Blog](#)

Images

- Slide 17: Apple - <http://pixabay.com/de/roter-apfel-apple-lecker-di%C3%A4t-83085/> - Public Domain
Slide 17 & 17: Pear - <http://pixabay.com/de/apfel-birne-obst-reif-s%C3%BC%C3%9F-10889/> - Public Domain
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