Mentoring (التوجيه)

Session (2)   18/02/2021
7:30 PM (Cairo Time)
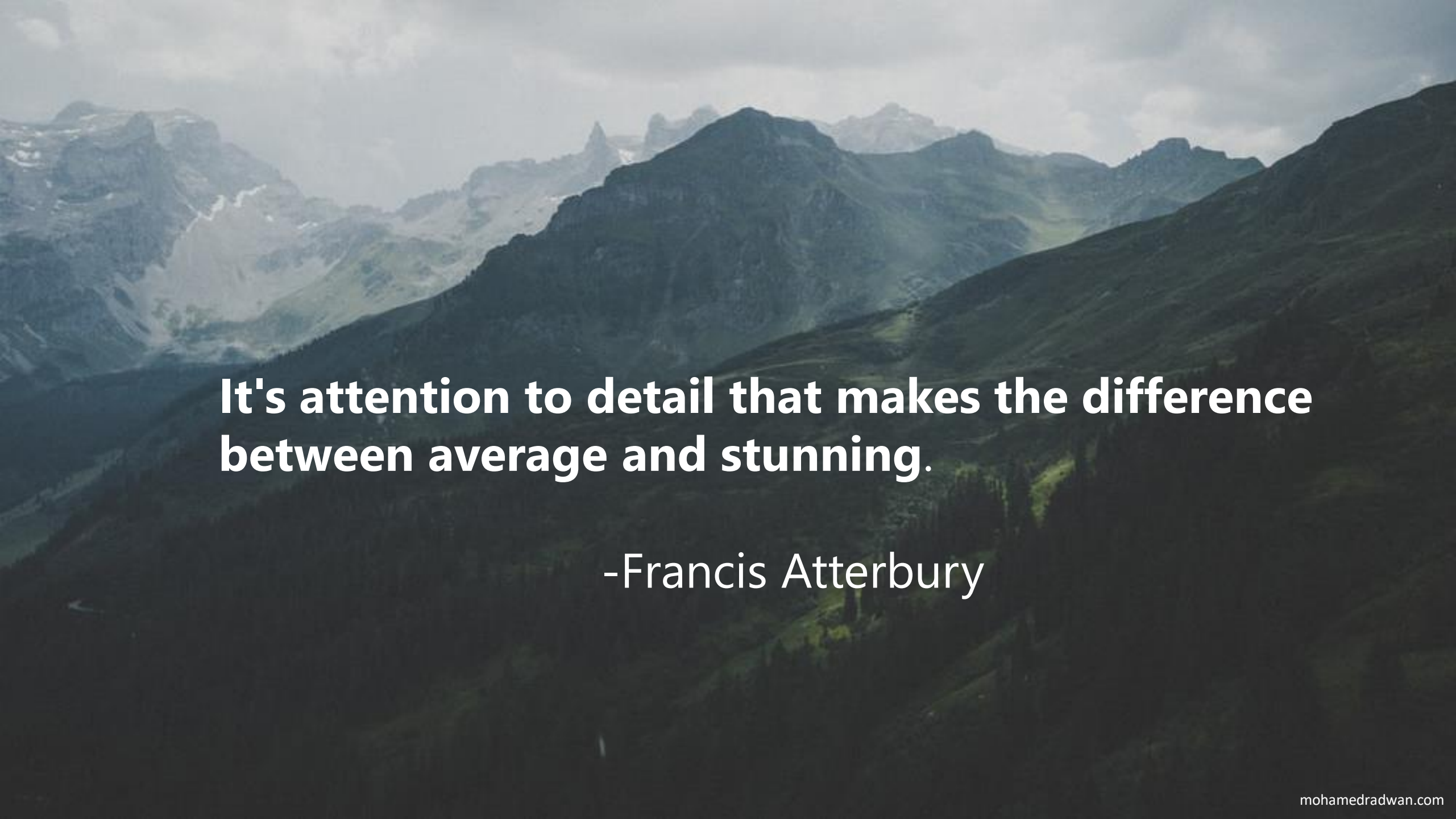
Technical Skills (DevOps)
Arabic (عربي)

Mohamed Radwan

MVP Microsoft® Most Valuable Professional

HashiCorp

It's attention to detail that makes the difference between average and stunning.
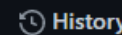
-Francis Atterbury

Decisions based on feedback, interactivity and performance

- The session will be every 2 weeks ✅

- The session duration will be maximum 2 hours ✅

- The session time will be at 7:30 PM Cairo time ✅

<> **Code** **2** ues   ⑁ Pull requests   ⊙ Actions   ⊞ Projects   📖 Wiki   ⊙ Security   📈 Insights   ⚙ Settings

⑂ main ▼   **DevOps-step-by-step-arabic / faq.md** **3**   Go to file   ···

👤 **MohamedRadwan-DevOps** Update faq.md   Latest commit b67c3f2 1 minute ago   🕐 History

FAQ and Code of Conduct

Contents

- Where I can ask questions?
- I am new. What I should do to join?
- Where or how can I register?
- Do I need to register for every event/session?
- Where can I find past and future sessions?
- Where can I find and download the presentations for the previous sessions?
- I don't want to receive any invitation or emails anymore?
- How to join the meeting?
- Do I need to install Microsoft Teams?
- I have an issue joining the meeting using MS Teams?
- I registered but I didn't get an invitation?
- If I can't join the live session, can I still watch it?
- If I can't join the live session on MS Teams either the live broadcast on YouTube, is there any video record for the session?
- I want to contribute but I don't know what to do?
- What if I raised or opened an issue and it is deleted without any comment?
- What if I raised a Pull Request (PR) and it is not accepted?
- What is needed to contributor to the community?
- Can I ask any question regarding any subject outside the session topic?

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Roadmap?

Part of my thesis in Agile 11 years ago

Confidence in planning was short lived. By the late 1970s, the other voices could be heard.

Those who said they make plans, and its work are liars [4].

The term planning is none; everything can change in blink of eye [4].

And by 1993, Professor Henry Mintzberg wasn't limiting himself to the observations that planning didn't work and was therefore useless. He went further and judged planning as **positively harmful.**

Planning schemes don't just fail to encourage the flexibility that is necessary for success in modern business **they actually suppress**. [5]"

[4] Stacey, R. D. (2001). "Complex Responsive Processes in Organizations: Learning and Knowledge Creation". London:

[5] Routledge [5] Byrne, D (1998). "Complexity Theory and the Social Sciences: An Introduction." London: Routledge.

" Always remember, there is a very thin line between **Agile** and **Chaos**. **"**

Mohamed Radwan
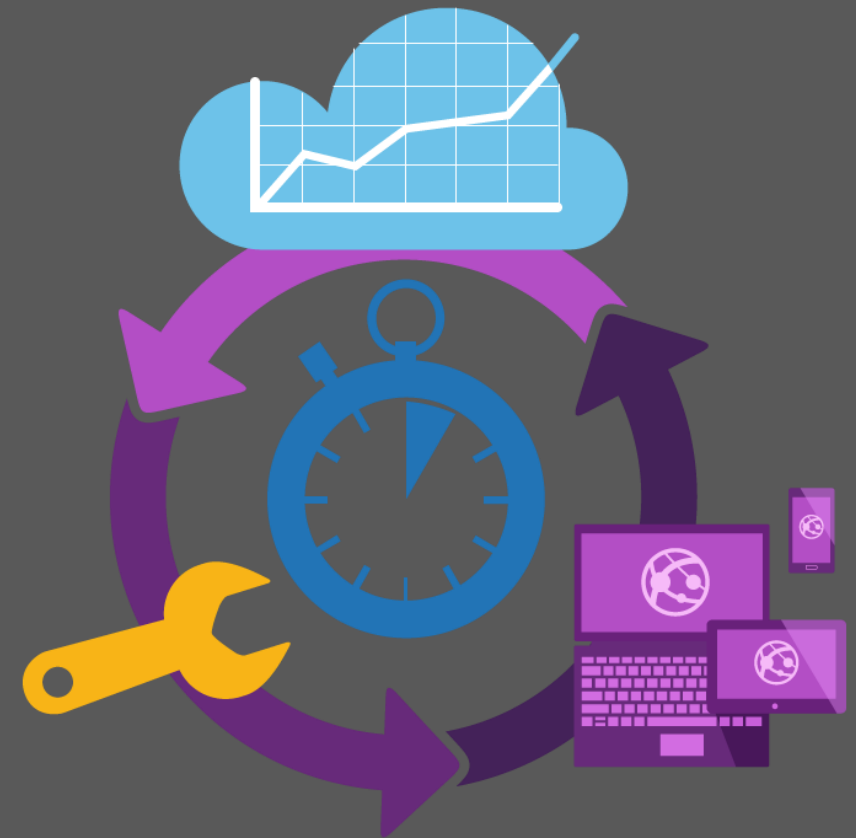
Expressions

Good question?

@melqassas

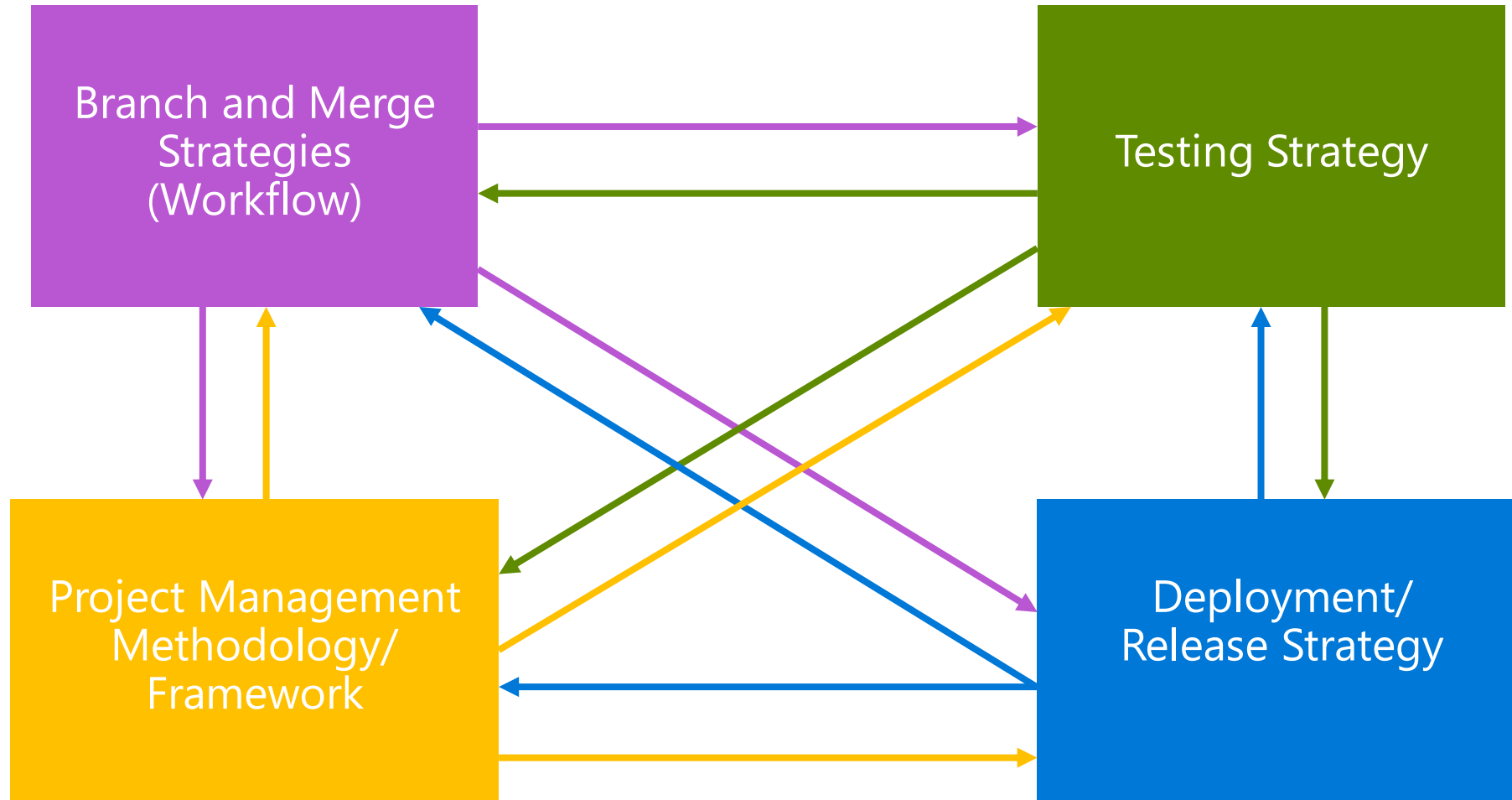# Questions from previous session?

Demo

Tag (Commands)

Branch and Merge Strategies (Workflow)

Branch strategy interdependent

Why do you create a branch?

There are many reasons and types of branches but let's focus on one of the most common and important one.

Feature Branch

An isolation copy and space to complete your work (Task) without affecting/interrupting the original source until you finish and we make sure your work is done correctly.
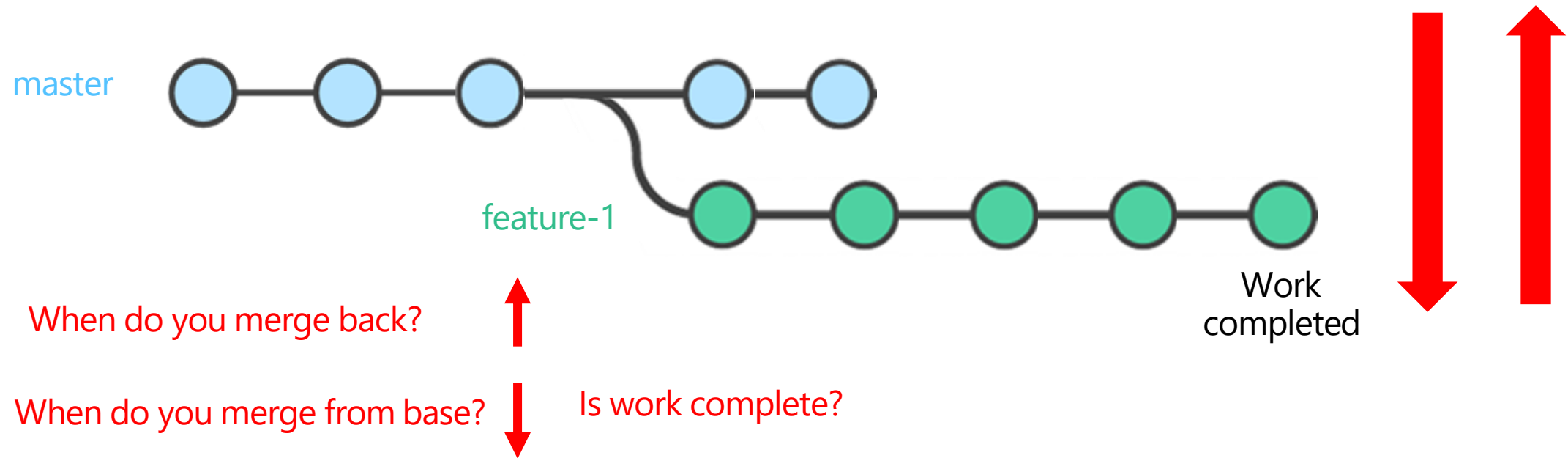
When do you create and merge a feature branch?

When do you create a feature branch?

When do you merge back a feature branch?

When you start working on a task

When you finish/complete working on that task

When do you merge a feature branch?

master

feature-1

Work
completed

When do you merge back?

When do you merge from base?   Is work complete?

Demo

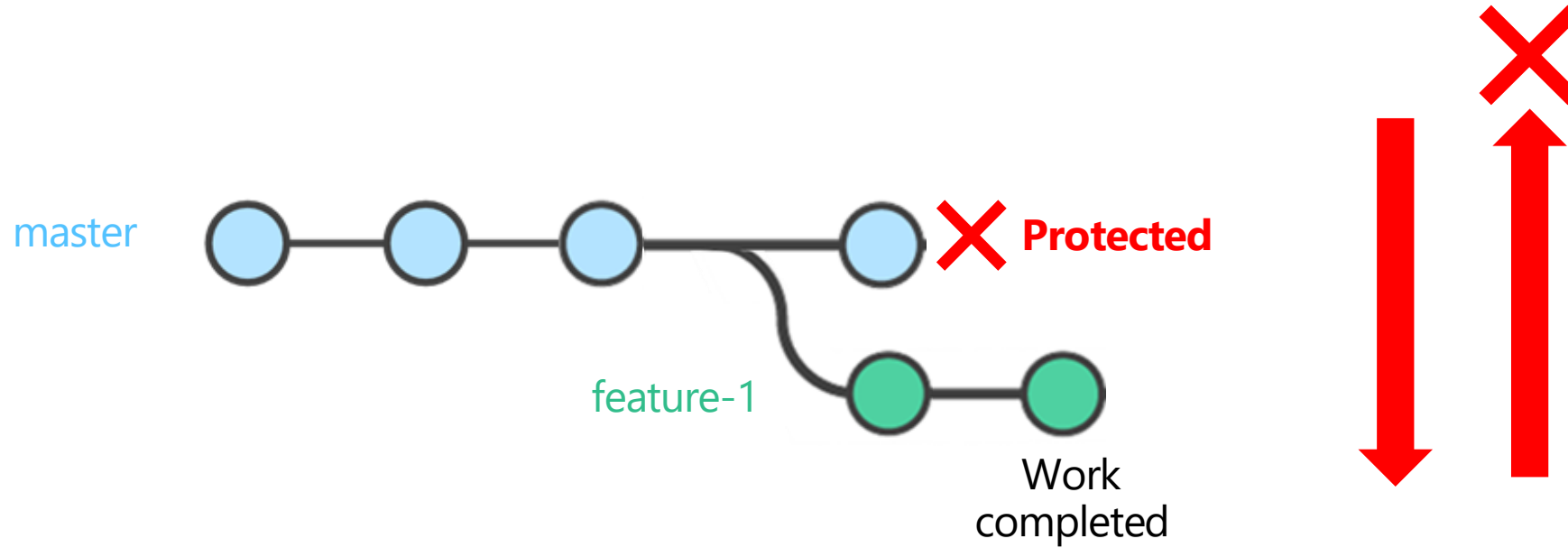When do you merge a feature branch?
(Visualization)

Following this practice, where the conflict will occur? And why?

What does it mean if the conflict occur in the master branch?

Pull Request (PR)

Pull Request (PR)

master

✗ **Protected**

feature-1

Work completed

Open/Raise a Pull Request (PR) ✓

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Git reset (revert)

Three actions to create a commit

1. Make some changes. **(hard)**
2. git add . **(mixed)** **(default)**
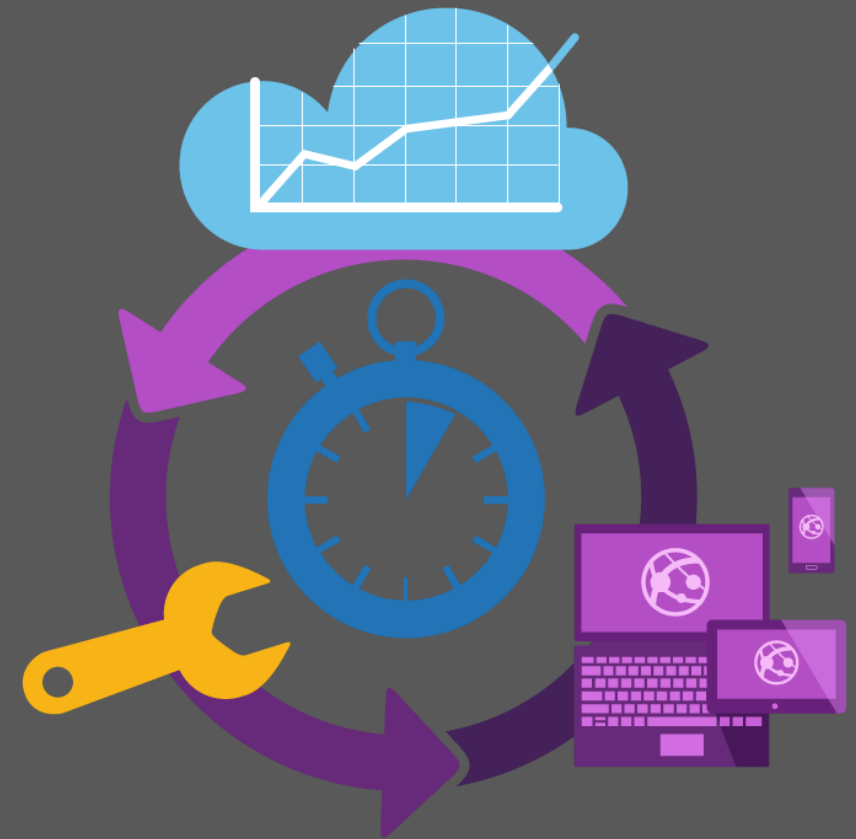3. git commit -m "I did something" **(soft)**

soft "pretended" to never see you have did git commit.
mixed "pretended" to never see you have did git add .
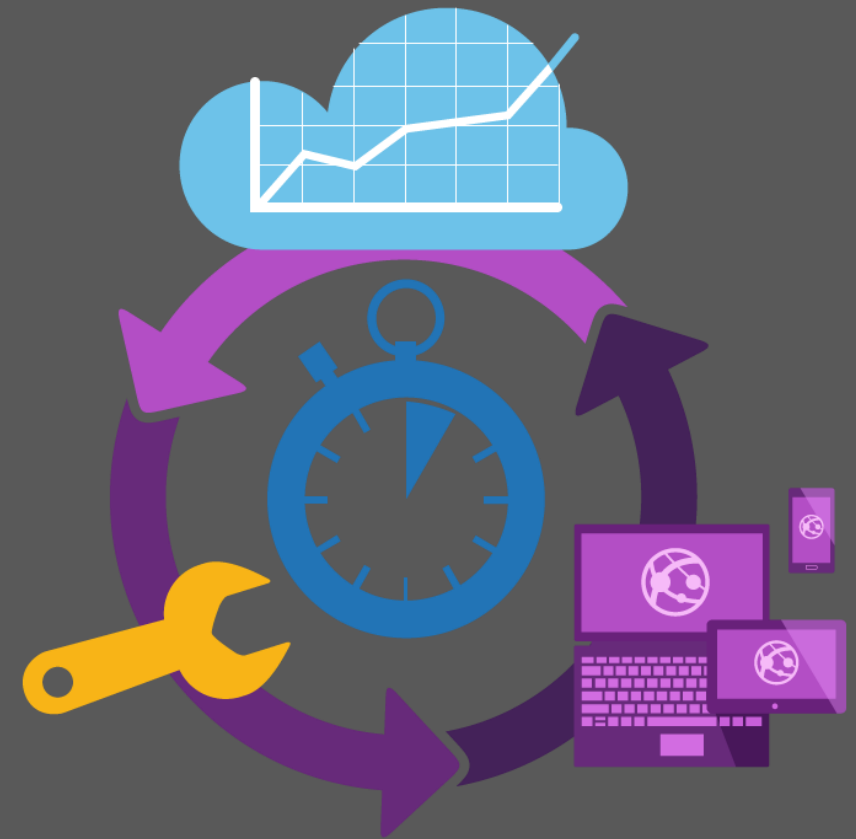**hard** "pretended" to never see you have made file changes.

Demo

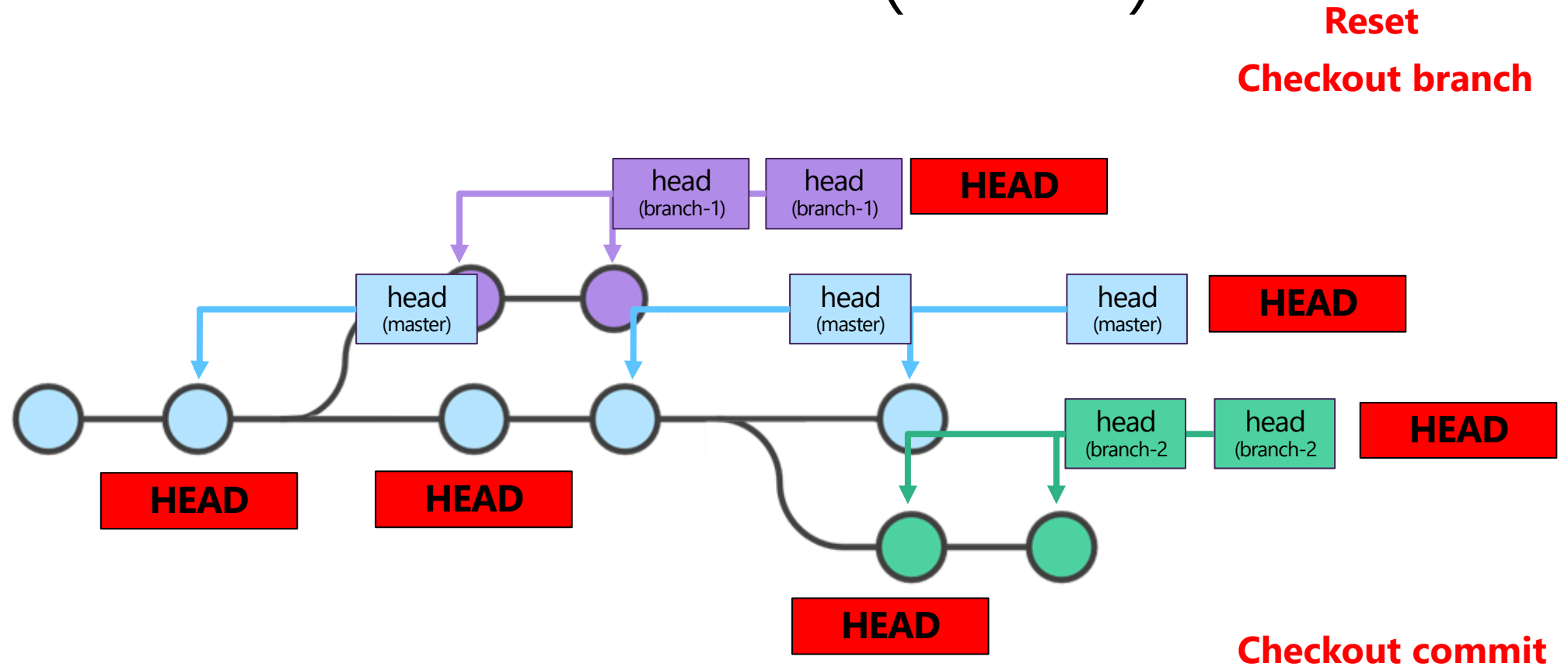Git reset (Visualization)

Demo

Git reset and cherry-pick
(Visualization)

Demo

Git reset (Commands)

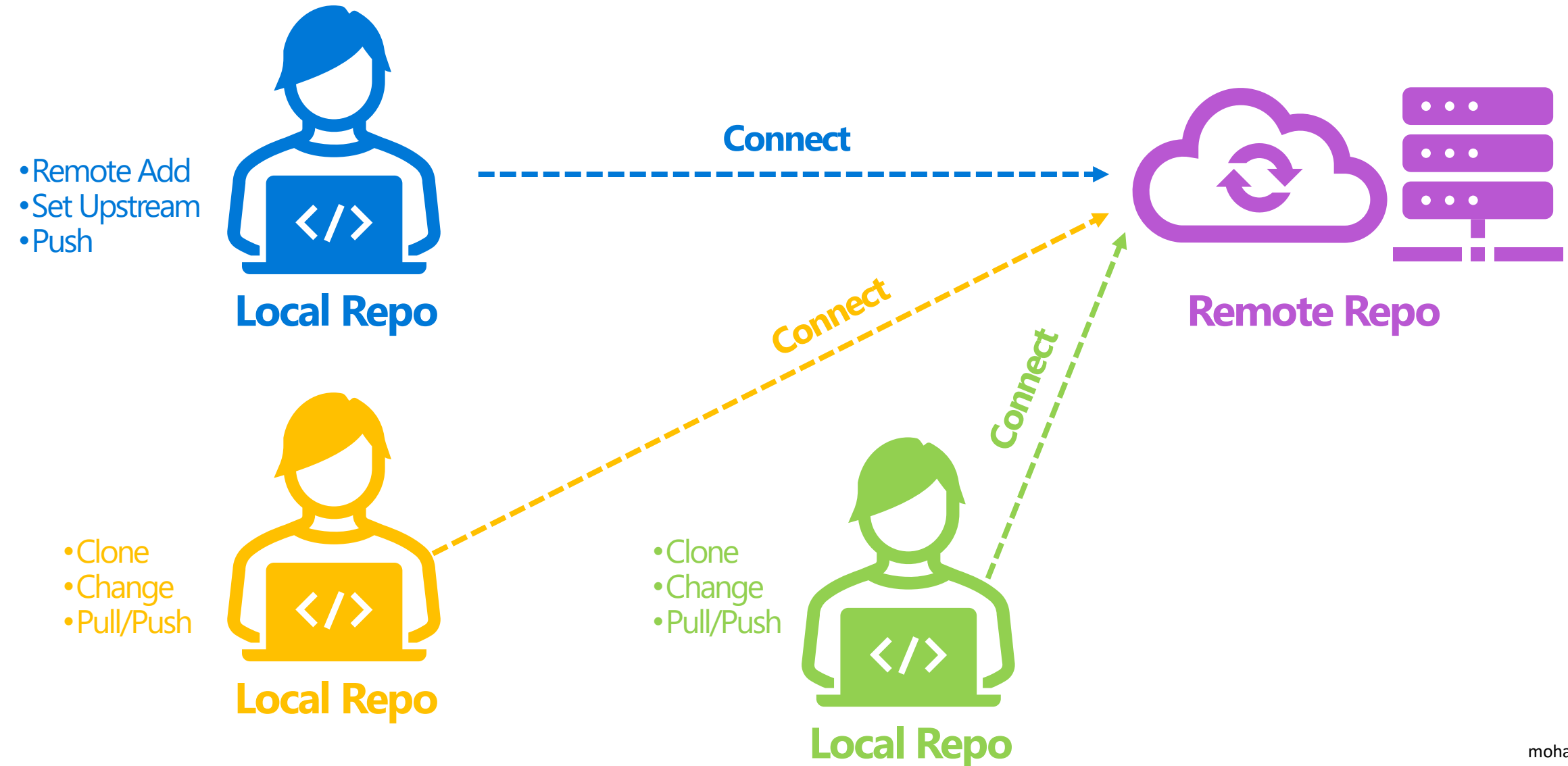# Detach HEAD vs. Reset (head)

Detach HEAD vs. Reset (head)

Demo

Squash/Cherry-pick (Command)

Remote Repo

Connect

- Remote Add
- Set Upstream
- Push

Local Repo

Connect

Connect

- Clone
- Change
- Pull/Push

- Clone
- Change
- Pull/Push

Local Repo

Local Repo

Remote Repo

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Git Remote and Upstream branch

(Upstream branch) ⬤—⬤—⬤———⬤ master

1. Remote Add
2. Set Upstream
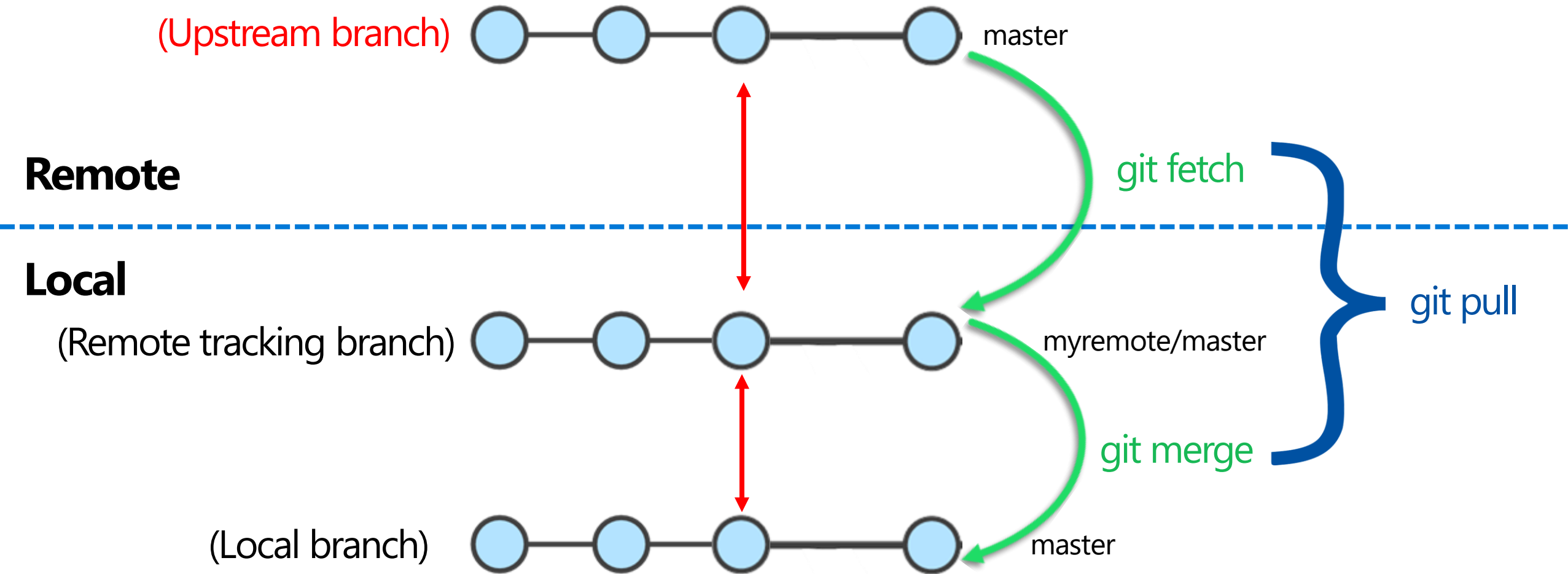3. Push

Remote

Local

(Remote tracking branch) ⬤—⬤—⬤—⬤ myremote/master

(Local branch) ⬤—⬤—⬤—⬤ master

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Demo

Git remote (add/upstream)

Fetch vs. Pull

(Upstream branch) ○──○──○──○ master

Remote

git fetch

Local

(Remote tracking branch) ○──○──○──○ myremote/master

git pull

git merge
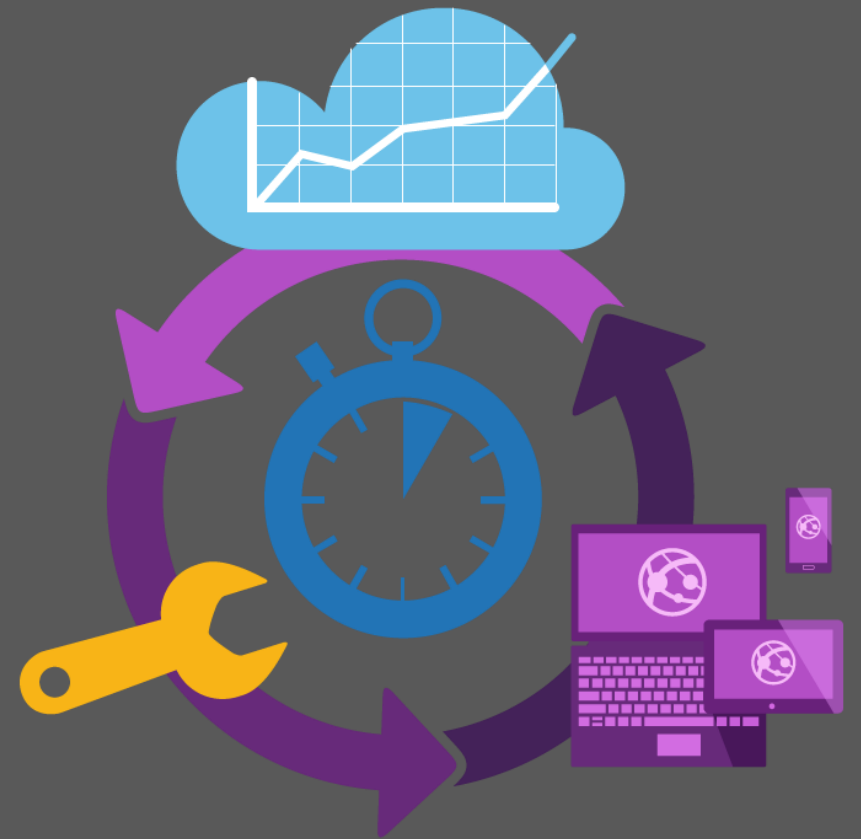
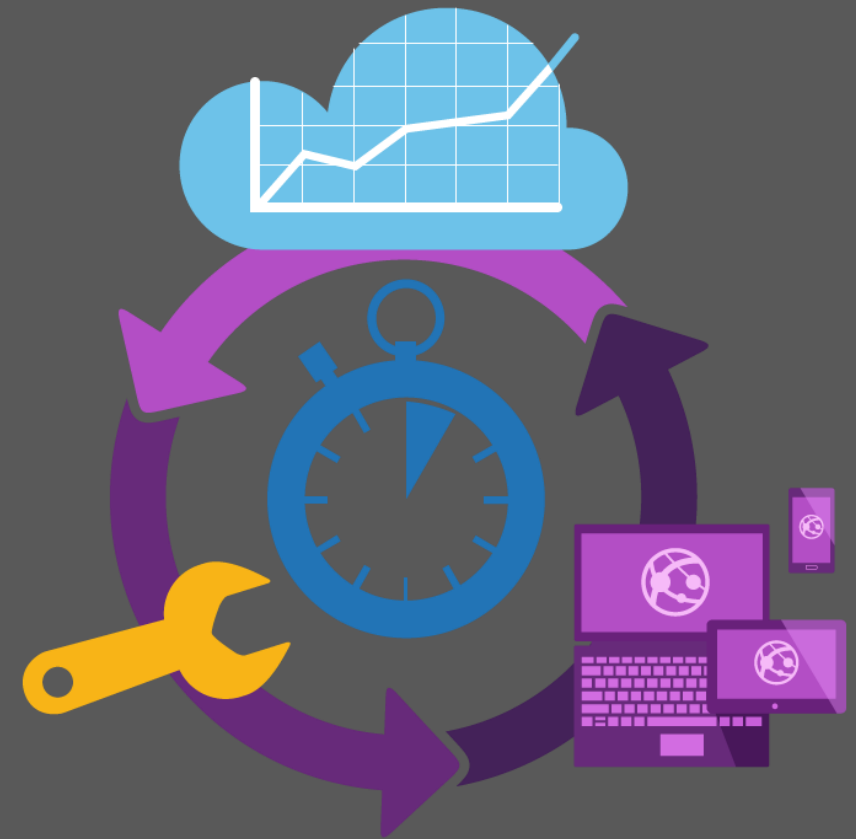(Local branch) ○──○──○──○ master

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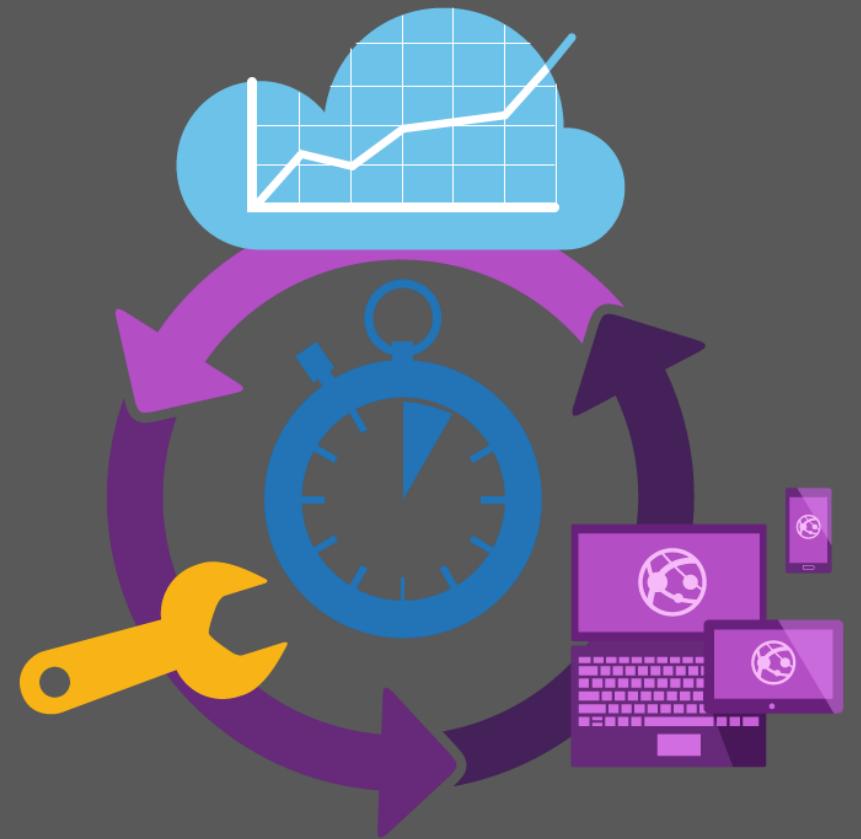
Demo

Git Fetch vs. Pull (commands)

Demo

Git Web UI for history/diff/commits/tags

Demo

Git remote (clone)

Pull Request (PR) info

- Title/Description/Requester
- Active/Closed
- File changed (number/diff)
- Commits (number/diff)
- Changes in each file changed

Demo

Pull Request (PR) from branch Azure DevOps

Git Fork

- Open Source
- Inner Source

Pull Request (PR)

When do you merge fork?
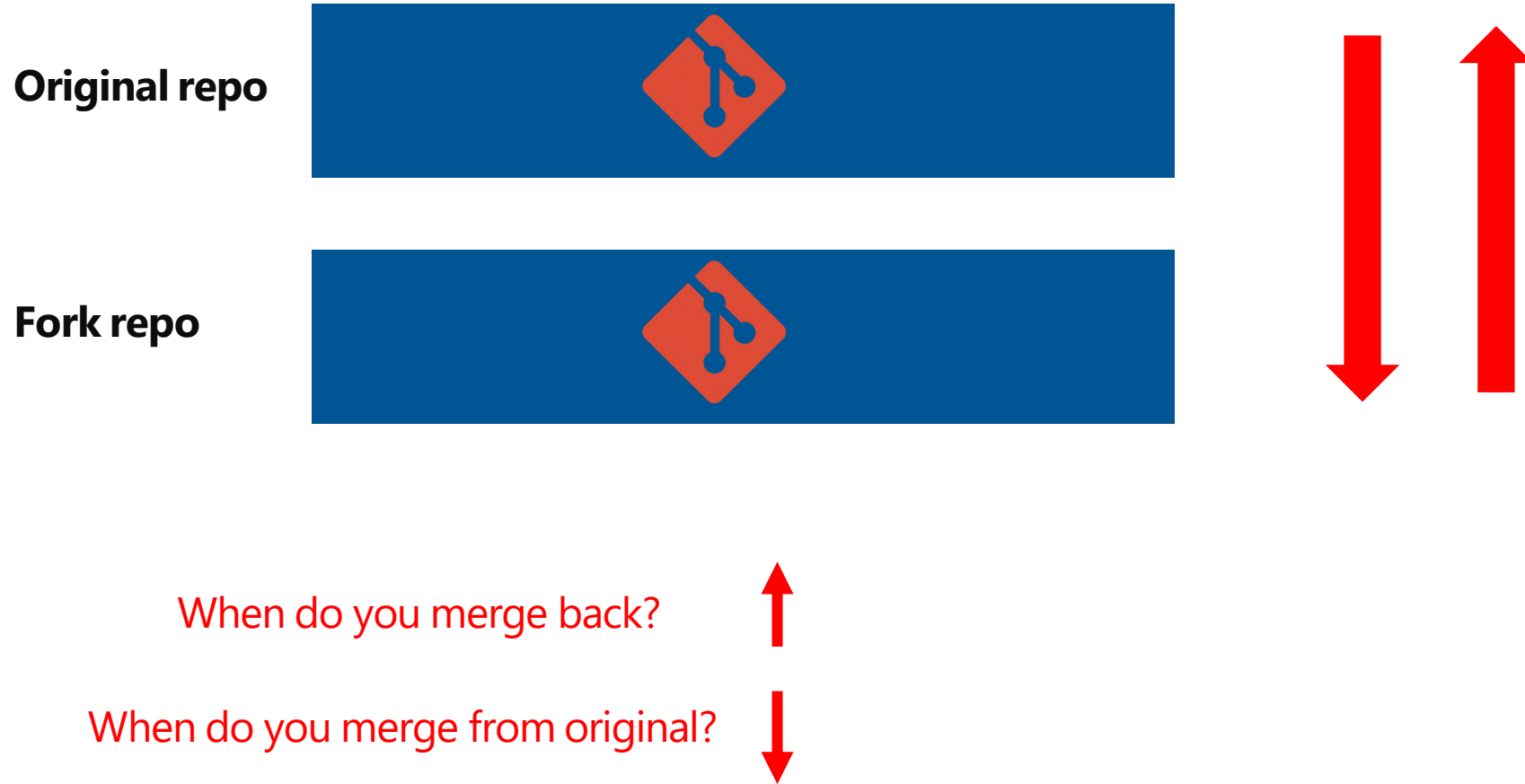
Original repo

Fork repo

When do you merge back?

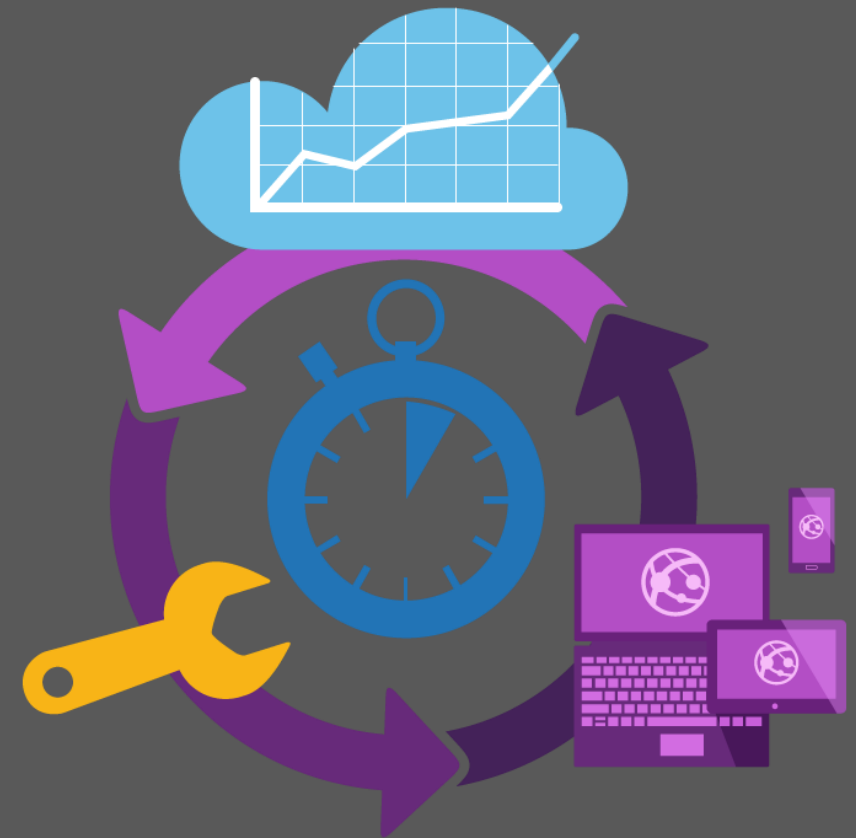When do you merge from original?

Following this practice, where the conflict will occur? And why?

What does it mean if the conflict occur in the original repo?
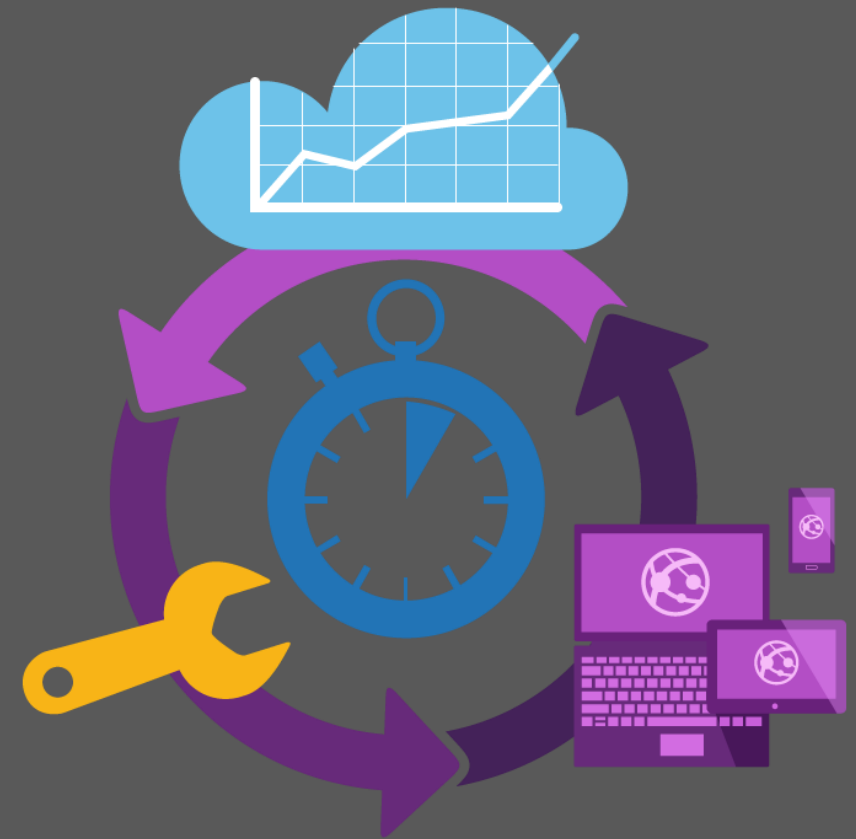
Demo

Git fork (GitHub)

Demo

Pull Request (PR) from fork (GitHub)

Demo
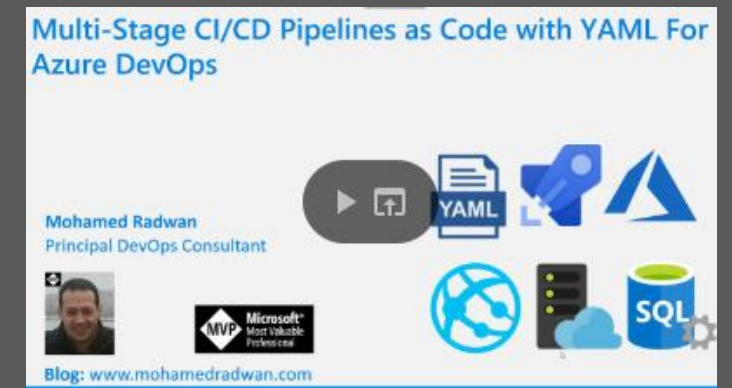
Git conflict (GitHub)

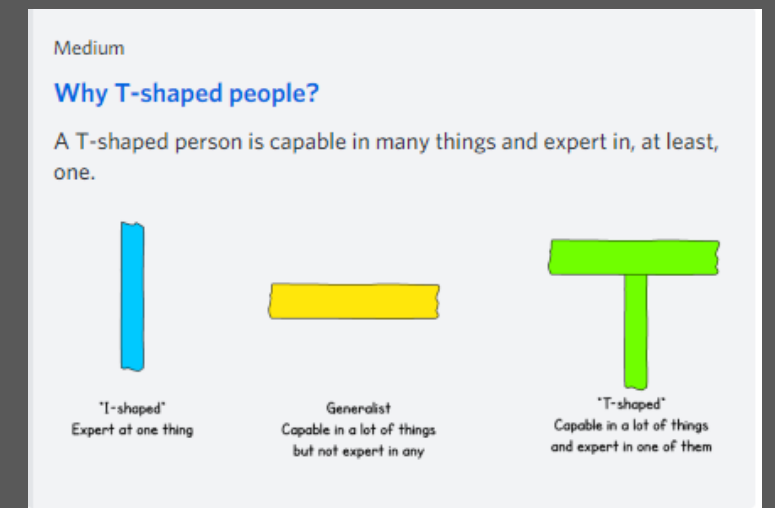# Demo

Git conflict (Azure DevOps)

Demo

Git UI with Visual Studio

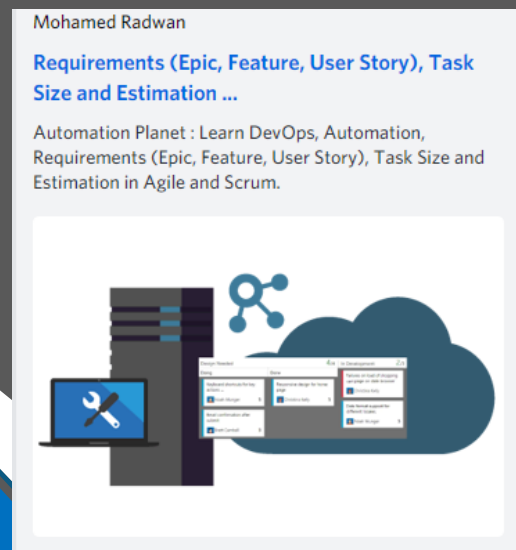# Next session material

Videos

Lead Time VS. Cycle Time and How Kanban Can Help Continuous Delivery and DevOps

Mohamed Radwan
Principal DevOps Consultant

Blog: www.mohamedradwan.com

Understanding Continuous Integration and Continuous Deployment CI/CD

Mohamed Radwan
Principal DevOps Consultant

Blog: www.mohamedradwan.com

Multi-Stage CI/CD Pipelines as Code with YAML For Azure DevOps

Mohamed Radwan
Principal DevOps Consultant

Blog: www.mohamedradwan.com

Posts

Mohamed Radwan

Requirements (Epic, Feature, User Story), Task Size and Estimation ...

Automation Planet : Learn DevOps, Automation, Requirements (Epic, Feature, User Story), Task Size and Estimation in Agile and Scrum.

Mohamed Radwan

Key Tips For Maintaining Good Product Backlog in Agile and Scrum

Automation Planet : Learn DevOps, Automation, Docker & Kubernetes.Key Tips For Maintaining Good Product Backlog in Agile and Scrum

Medium

Why T-shaped people?

A T-shaped person is capable in many things and expert in, at least, one.

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Next session checklist

- Apply and practice everything you learned in this session. ✅

- Any questions/problems, report them on GitHub as issues. ✅

- Well prepare/study the material of the next session. ✅

- Well prepare your questions/problems of the next session. ✅

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Mentoring (التوجيه)

Mohamed Radwan

Soft Skills
Arabic (عربي)

Amateurs Anonymous

جمعية الهواة المجهولين

مرحبا بك في جمعية الهواة المجهولين

(AmateursAnonymous.org)

الأسئلة الشائعة	معلومات أخرى	أمثلة على المبادئ	الاجتماعات	نبذة عن الجمعية	مبادئ الجمعية

Thank you!
شكرا