

People matter, results count.

Ground Rules for Face-to-face Classrooms





Ground Rules for Virtual Classrooms

Participate actively in each session

Share experiences and best practices

Bring up challenges, ask questions

Discuss successes

Respond to whiteboards, polls, quizzes, chat boxes

Hang up if you need to take an urgent phone call, don't put this call on hold

Communicate professionally with others

Mute when you're not speaking

Wait for others to finish speaking before you speak

Each time you speak, state your name

Build on others' ideas and thoughts

Disagreeing is OK –with respect and courtesy

Be on time for each virtual session

As a best practice...be just a few minutes early!

Module at a Glance

SME to provide the details required in the table.

Target Audience:	
Course Level:	Basic
Duration (in hours):	30 mins
Pre-requisites, if any:	NA
Post-requisites, if any:	Submit Session Feedback
Relevant Certifications:	None

Introductions (for Virtual Classrooms)

SME to provide the photos and names of the facilitators. **Business Photo Business Photo Facilitator** Moderator Name **Name** Role Role

Agenda





Module Objectives

Note to the SME: Please provide the module Objectives or validate the partially updated content



What you will learn

At the end of this module, you will learn:

What is GitHub



What you will be able to do

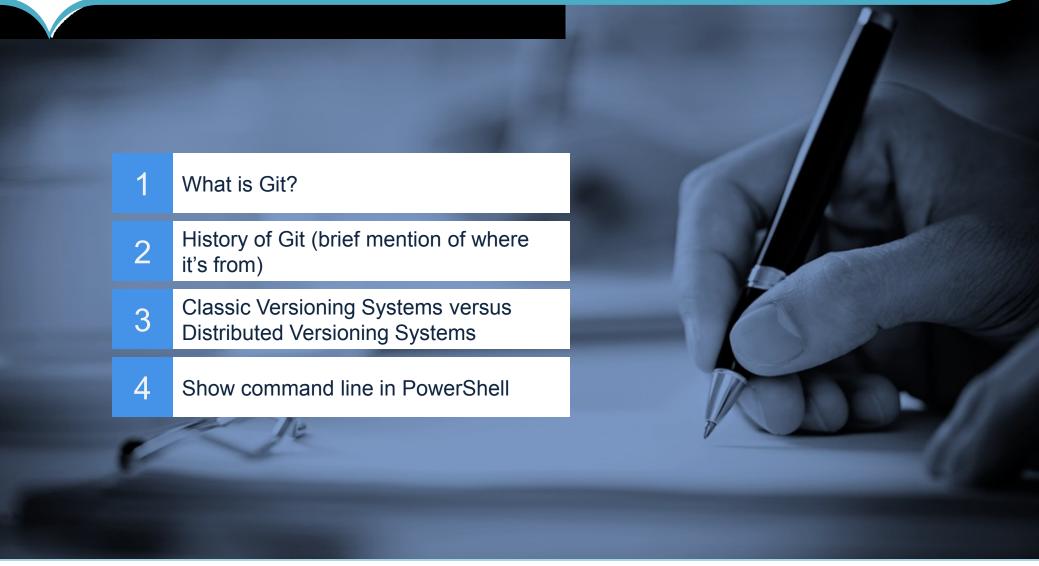
At the end of this module, you be able to:

- · Explain how GitHub can be used by Windows Developers
- Describe how to usr the GitHub Website
- Understand GitHub for Windows Basics
- State how GitHub and Windows work as a team



GitHub for Windows Developers

Outline





What is Git?

Version Control System ("Source Control")

Distributed Version Control System ("DVCS")

Very Fast

Highly Scalable



What is Git? (contd.)

Distributed Version Control System ("DVCS")

Branch

Merge

Commit

Push

Pull

Very Fast

Scalable

Distributed

Parallel



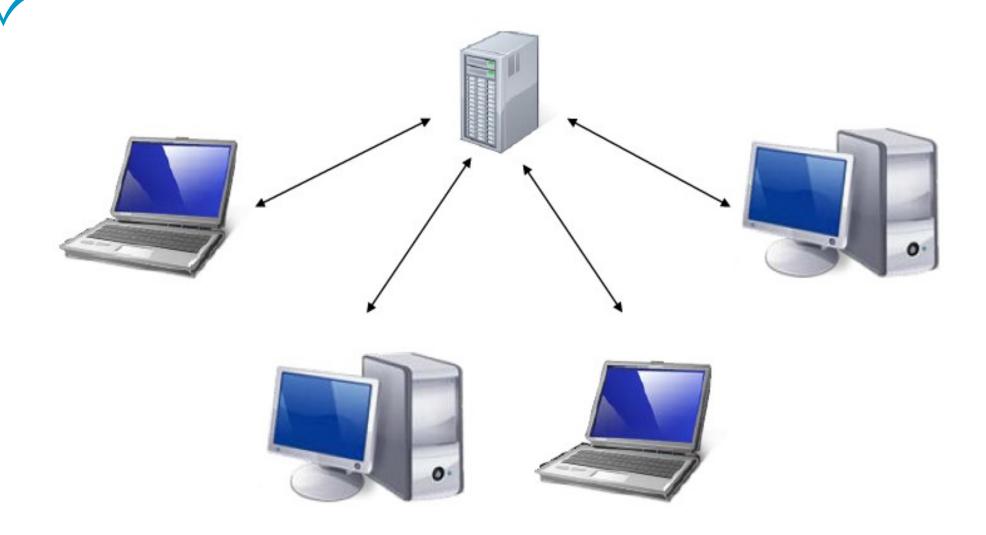
History of Git

GitHub



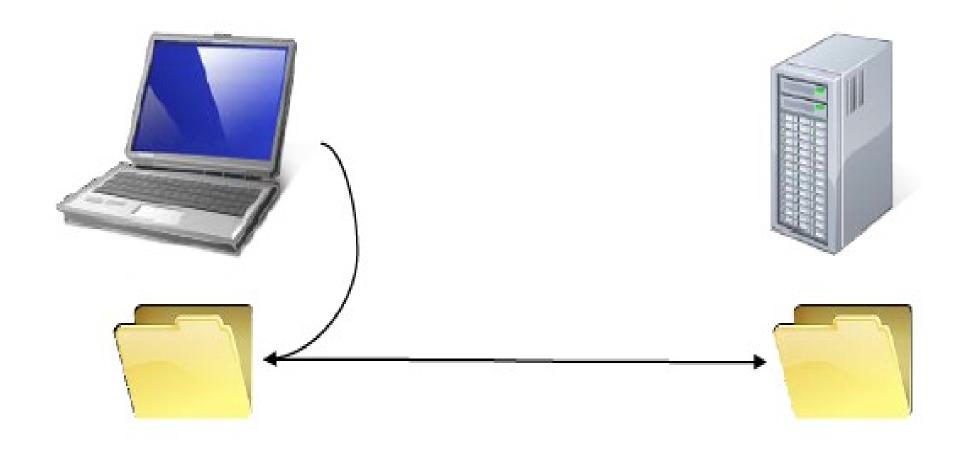


Centralized Version Control



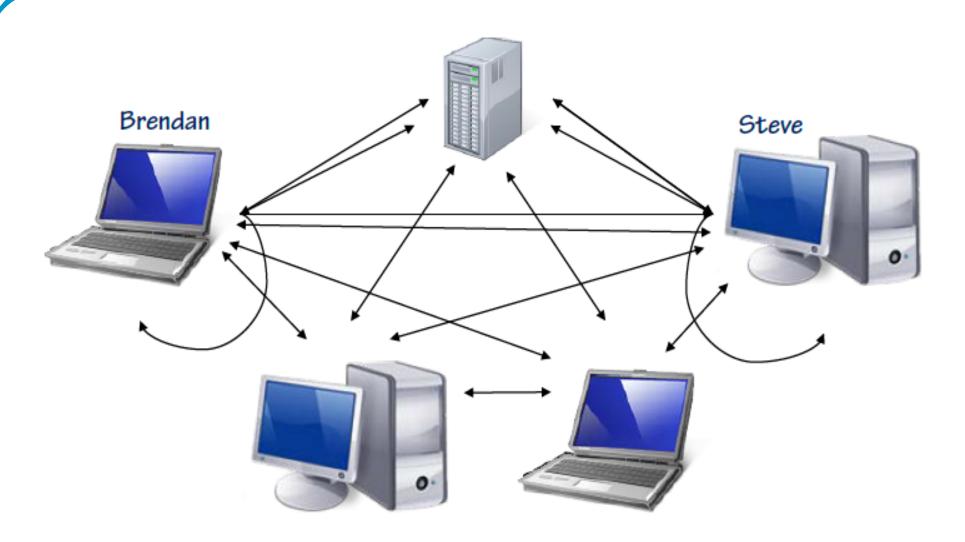


Distributed Version Control





Distributed Version Control (contd.)





Basic Git Commands

init status add commit





Summary

Git is a distributed version control system.

Commits happen locally.

It makes branching and merging easier.

Basic git commands and workflow.





Using the GitHub Website

Outline

What is GitHub? 2 Getting set up with GitHub 3 Managing Repositories 4 Organizations and Accounts 5 Working with and Managing Teams 6 **Configuring Permissions Managing Information**





What is GitHub?

Hosted Git repositories
Project Collaboration
Social Coding
Octodex(http://octodex.github.com/)





Summary

GitHub is a hosting place for projects using Git.

How to set up repositories on accounts and organizations.

Accounts and Organizations.

How to collaborate and manage some permissions.

Managing information using issues, wiki, and pages.





GitHub for Windows Basics

Outline

Setting Up Repositories Managing Repositories 3 **Local Source Code Changes** 4 Remote Source Code Changes





Teamwork with GitHub for Windows

Outline

1 Merging and Rebasing

2 Branching and Merging Branches

3 Stashing Changes

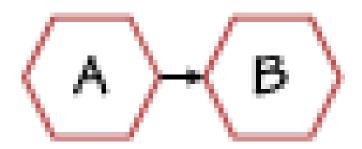
4 Resolving Conflicts

Checking in and out with .gitattributes Files

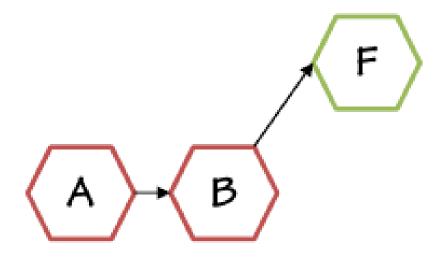




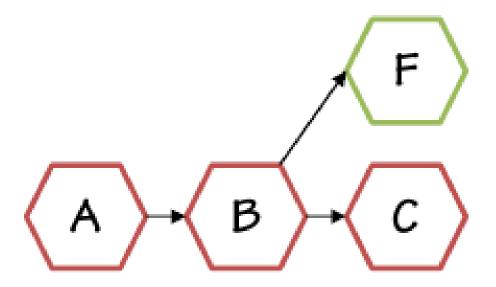
Merging Example



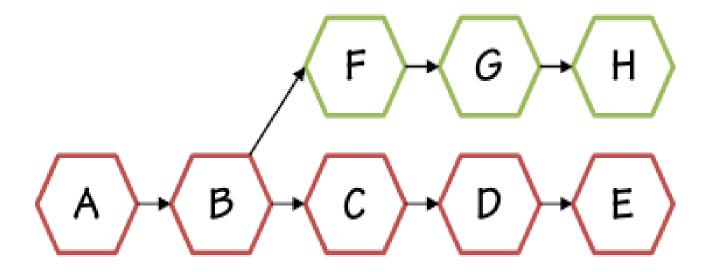




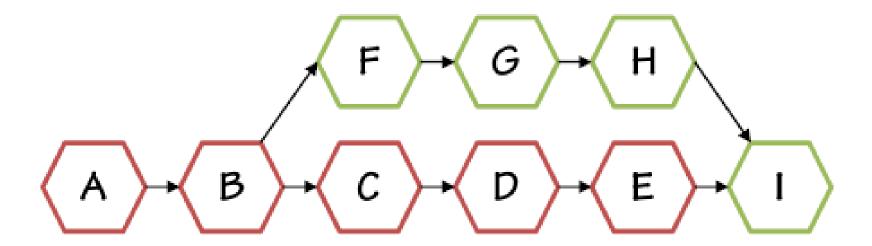






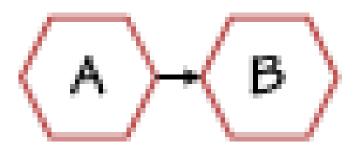




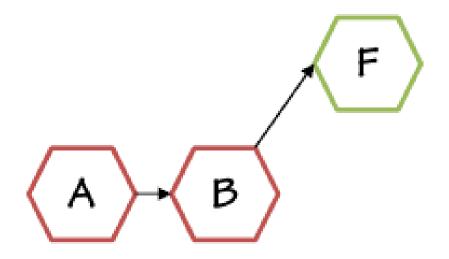




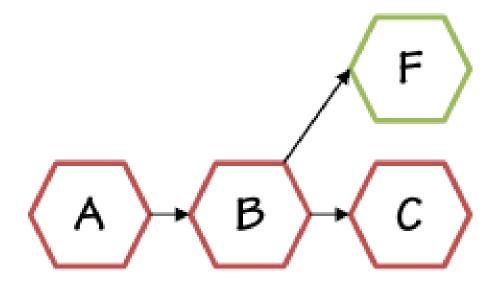
Rebasing Example 1



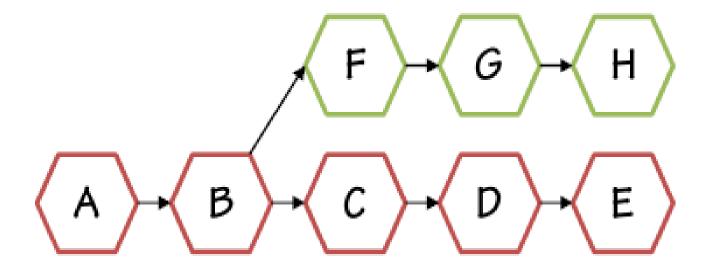




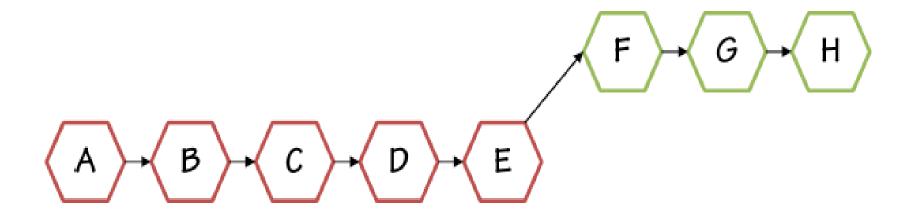






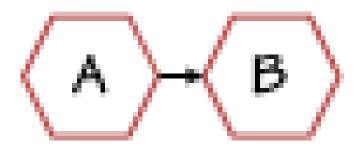




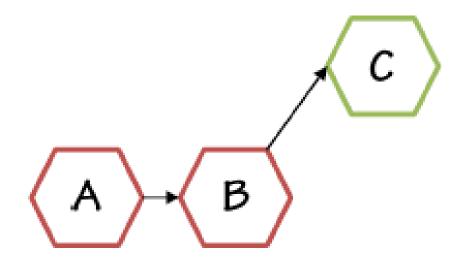




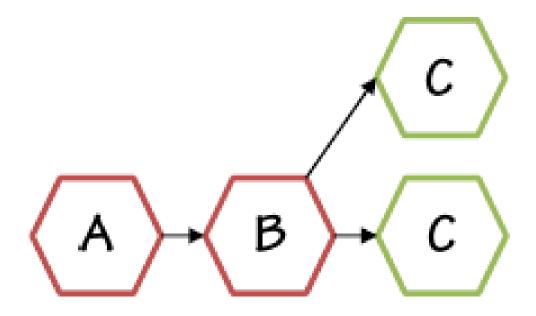
Rebasing Example 2



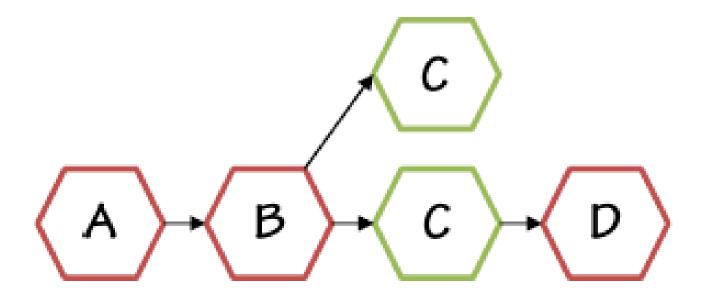




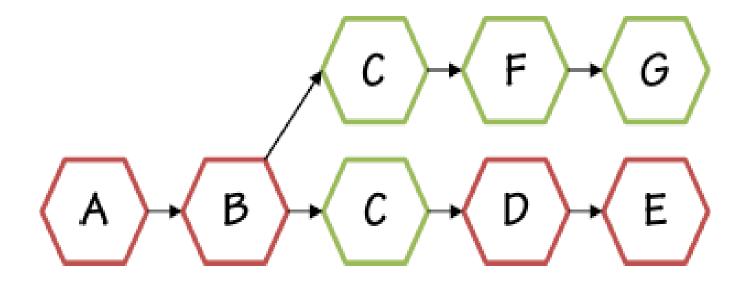




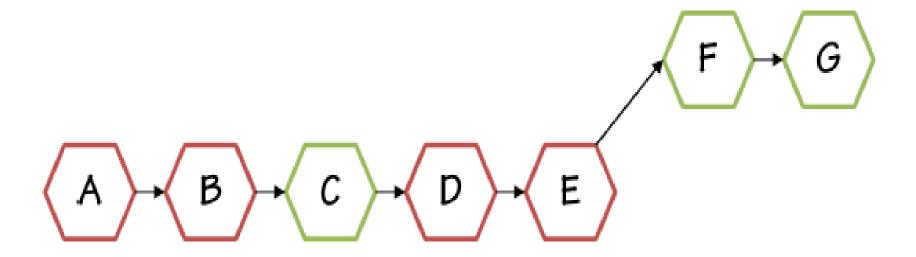






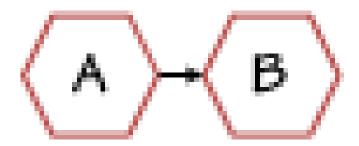






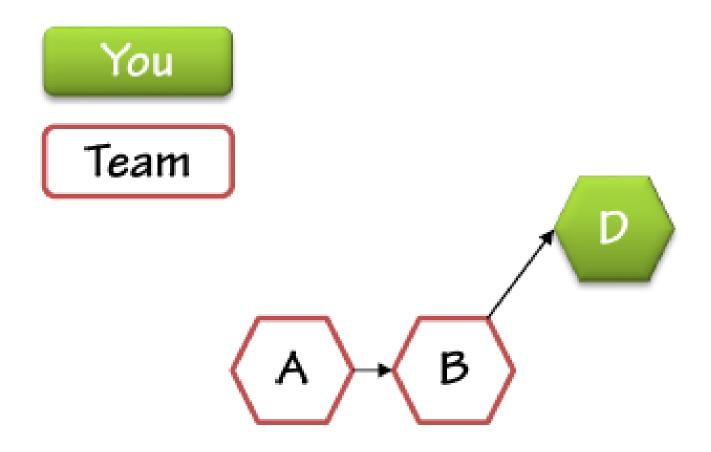


Dangerous Rebase Example

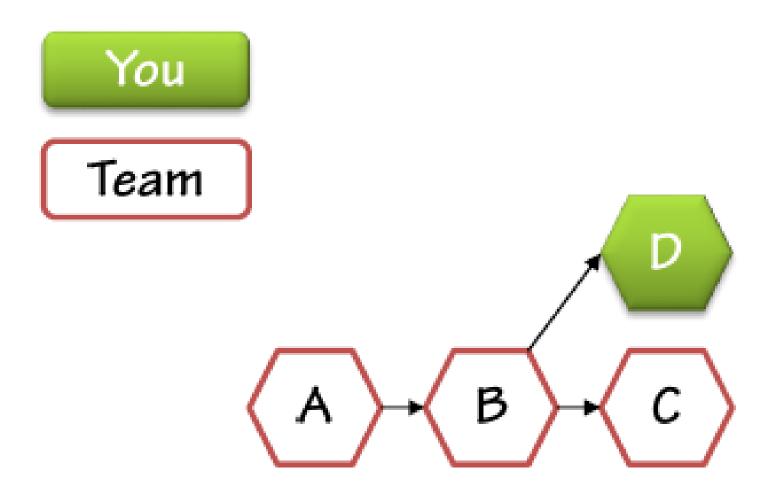




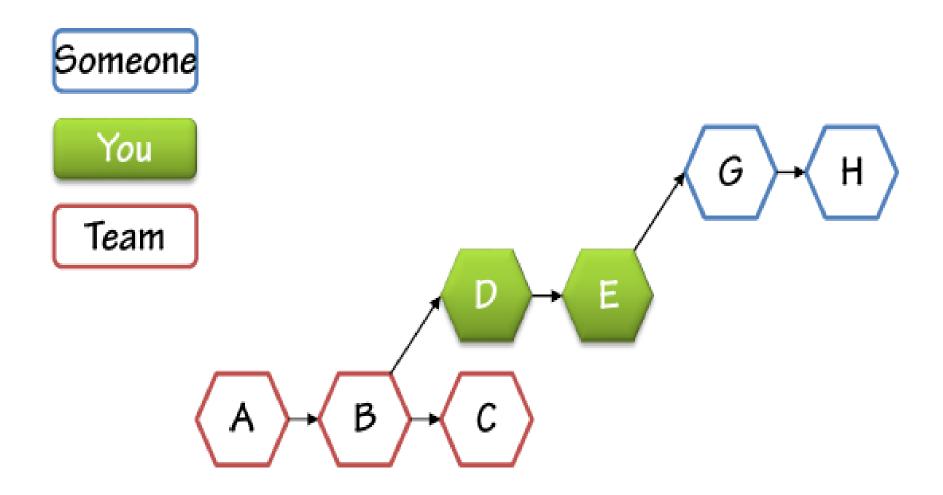
Dangerous Rebase Example 2



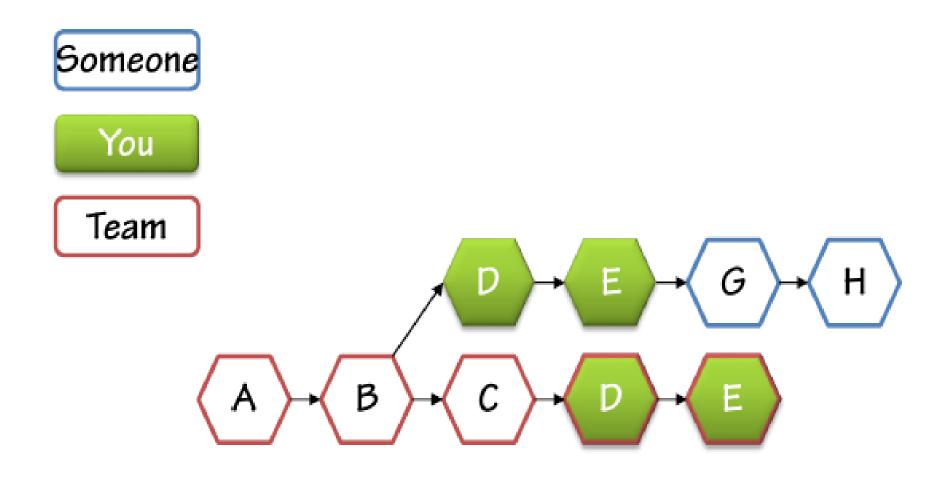




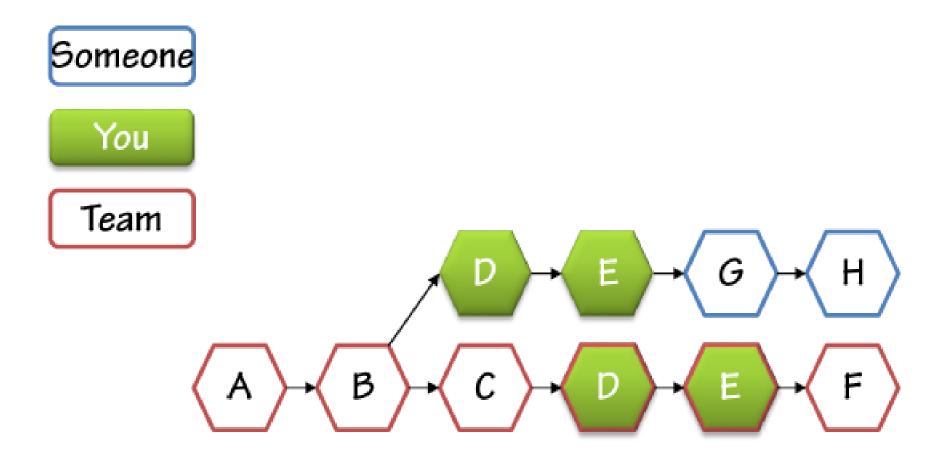




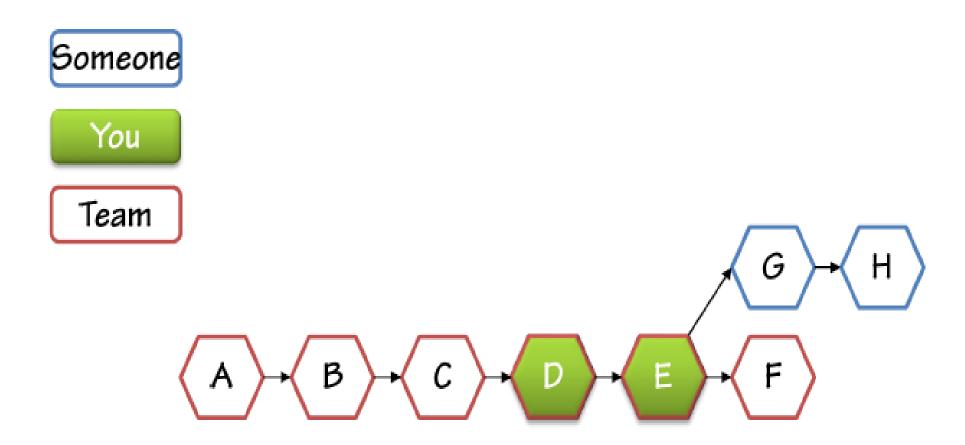




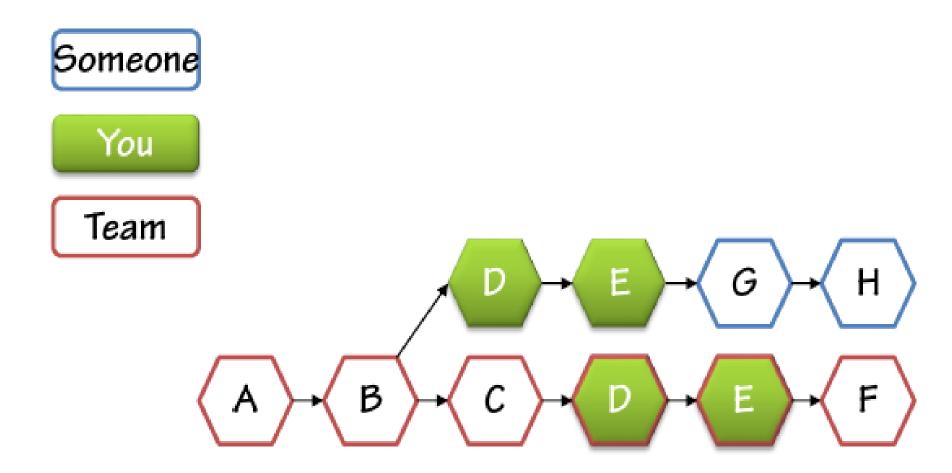




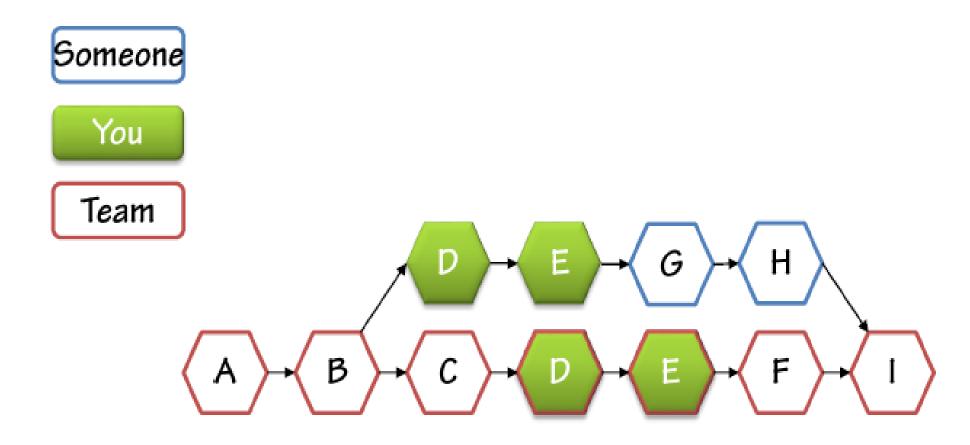














3 Common Rules for Rebasing

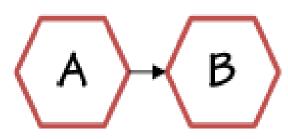
Never Rebase after Pushing a Branch.

Never Rebase after commits use your Branch.

Never Rebase after Pulling someone else' Branch.

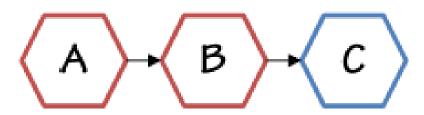


Good Rebase Example



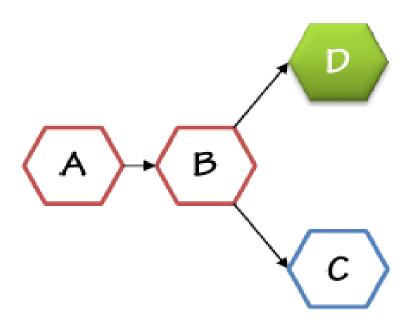


Steve



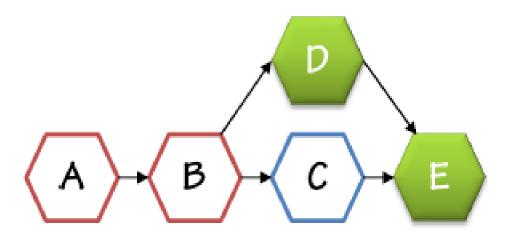
Steve

Brendan



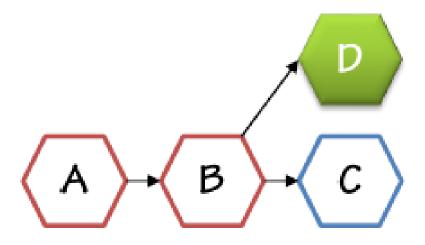
Steve

Brendan



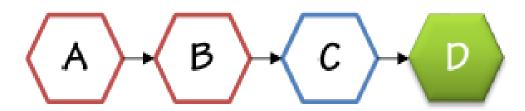
Steve

Brendan

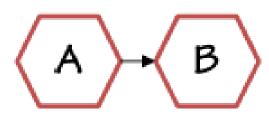


Steve

Brendan



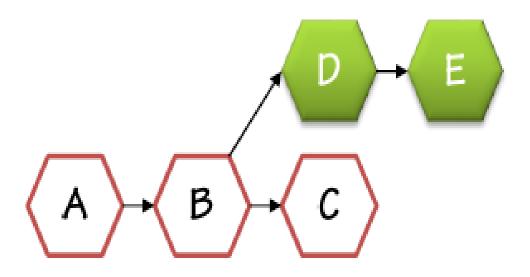
Good Merge Example





Good Merge Example (contd.)

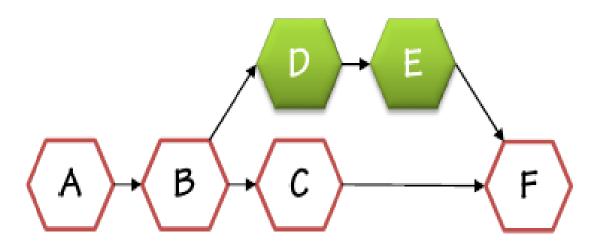
Feature





Good Merge Example (contd.)

Feature





Summary

Merging and Rebasing

Stashing Changes

Resolving Conflicts

.gitattributes Files





People matter, results count.

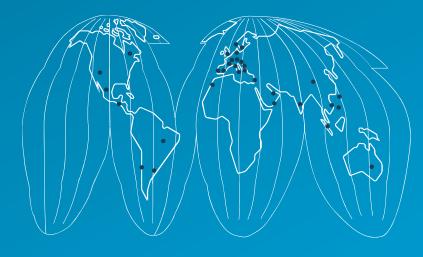


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Together with its clients, Capgemini creates and delivers business and technology solutions that fit their needs and drive the results they want. A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

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