



Module 1 Day 1

Introduction to Tools

Mike Morel

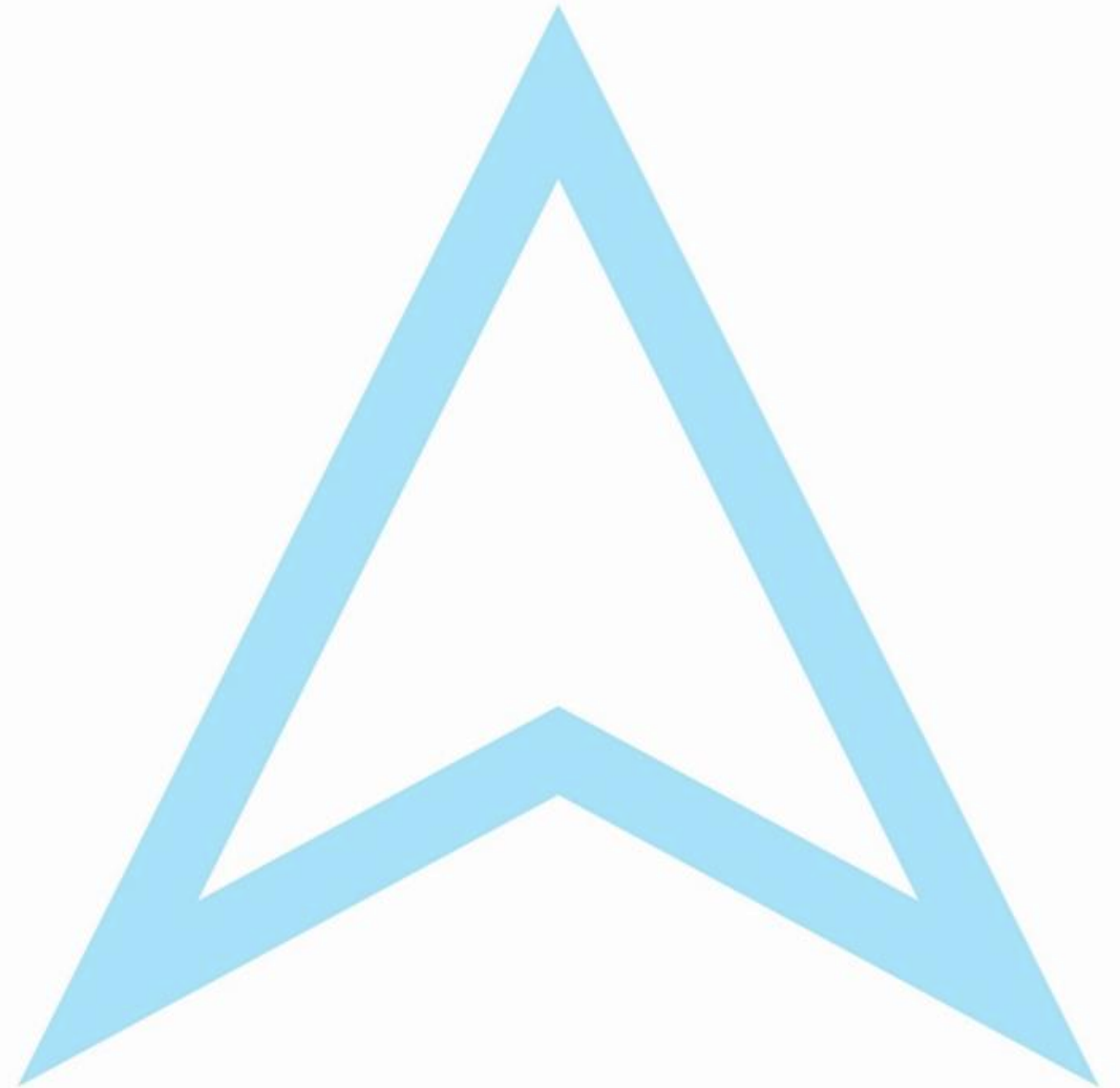
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- Ryver: Mike Morel (@mmorel)
- Hours: 8:00am – 3:00pm

Today's Goals

- Housekeeping
- Your typical day
- Machine familiarity and verification
- Windows / File Explorer
- Intro to Command shell (Bash)
- Git Source Code Control
- Repo setup

Housekeeping

- Name cards
- Paperwork / Student Folder
- Keys
- Kitchen
- Classroom Seating
- Tissues, cleaning wipes, etc.



Your Typical Day

8:45am	Quiz closes	Please complete the quiz prior to the start of class. If you do not take the quiz, 0 will be recorded.
9:00am – noonish	Pulse survey Quiz review Class instruction	
Noon – 2pm	Hours vary, but typically around lunchtime there MAY be Pathway sessions	There are not Pathway sessions every day, but a few times per week.
Afternoons	Individual exercises Pairs exercises (some days)	Homework. Don't forget to PUSH your work!!! Homework is due 2 nd morning after it is assigned
Mid-afternoon	Quiz opens	
Afternoons / evening	Take quiz on today's topic Read student book on tomorrow's topic	Please complete the quiz prior to the start of class

Verify Your Machine

- Log into Windows
- View the [Trello Syllabus](#)
- Log into Ryver
- Startup:
 - Git Bash
 - Visual Studio 2017
 - Visual Studio Code
 - SQL Server Management Studio (SSMS)

Windows / File Explorer

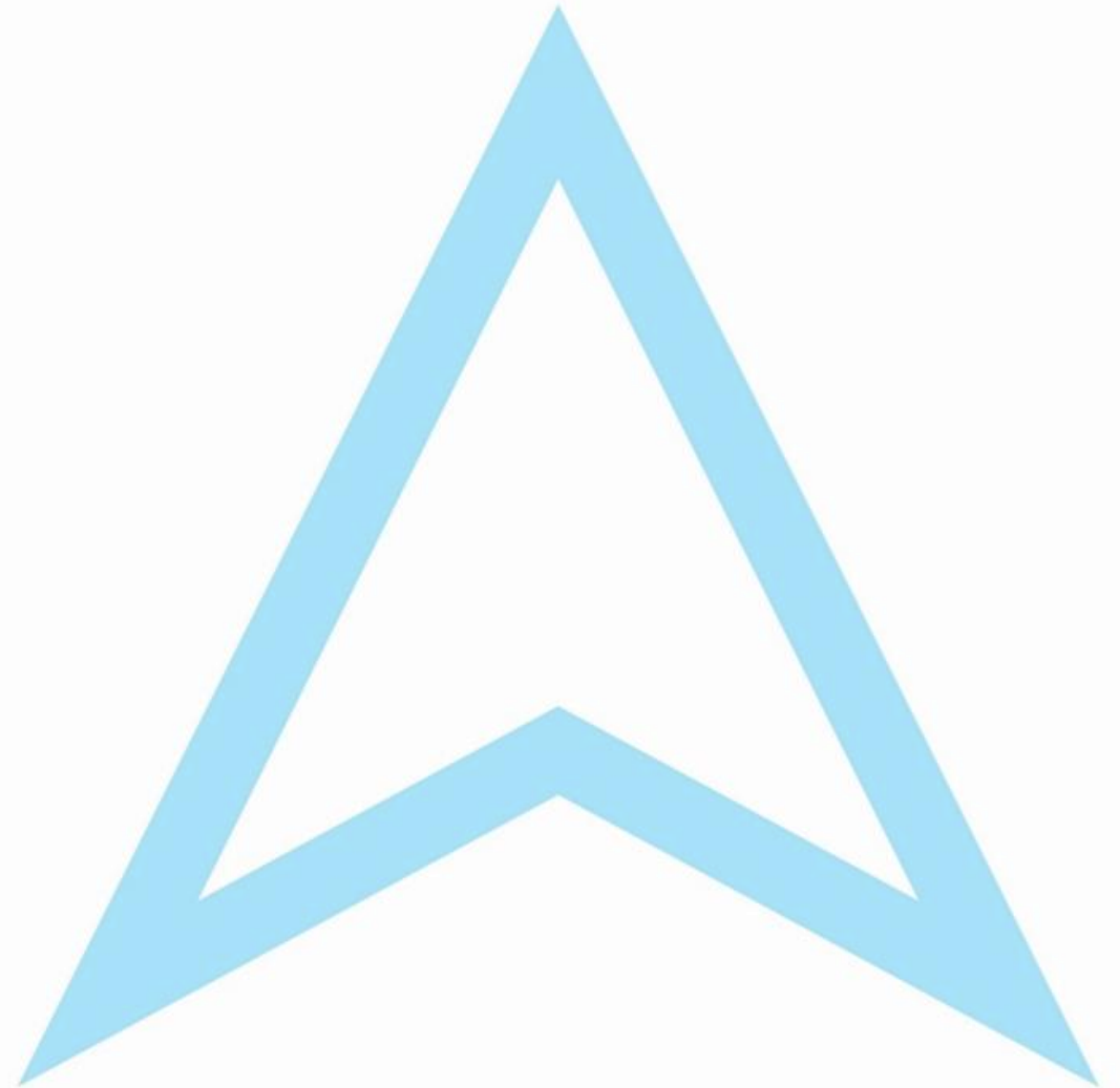
- Windows Start
 - Finding programs
 - Pinning to Start, Taskbar
- File Explorer
 - Launching
 - Navigating
 - Creating Folders and Files
 - Deleting Folders and Files
- Bash command shell
 - Launching
 - Navigating, Creating and Deleting Folders and Files
 - ~ / and ..

Command Shell (Bash)

- The “working directory” (aka, folder)
 - pwd – Print working directory
 - cd – changes the current working directory
 - Absolute vs relative paths
- Creating and deleting folders
 - mkdir – Make directory
 - rmdir – Remove directory
- Listing, creating and deleting files
 - ls
 - touch *filename.ext* – creates an empty file
 - rm *filename.txt* – remove (delete) a file
 - mv *source.txt target.txt* – Move (rename) a file
 - cp *source.txt target.txt* – Copy a file
- Special symbols: ~ / . / ..

Source Code Control with Git

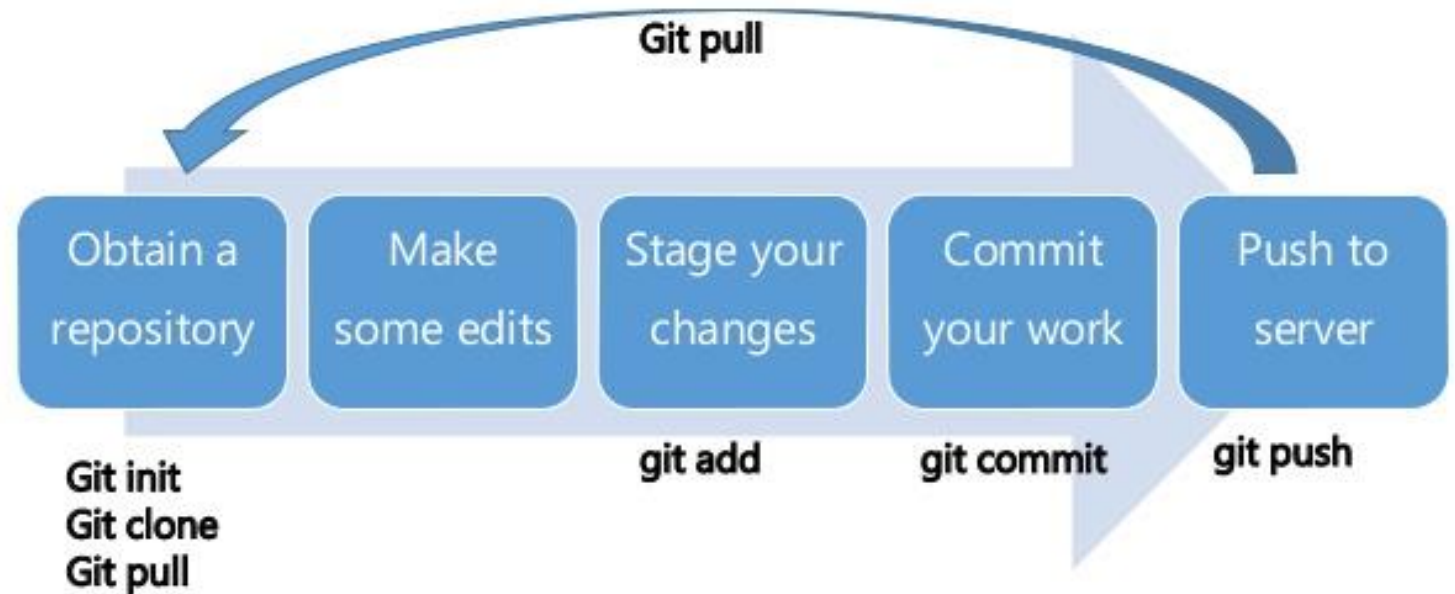
- Version Control
 - Code-sharing
 - History
 - Parallel development
- Git
- Local and remote repositories
- BitBucket and GitHub



The Git Workflow

- Git clone
- Git pull
- Git add
- Git commit
- (git pull & git commit)
- Git push

Git usages : Understanding Git Workflow

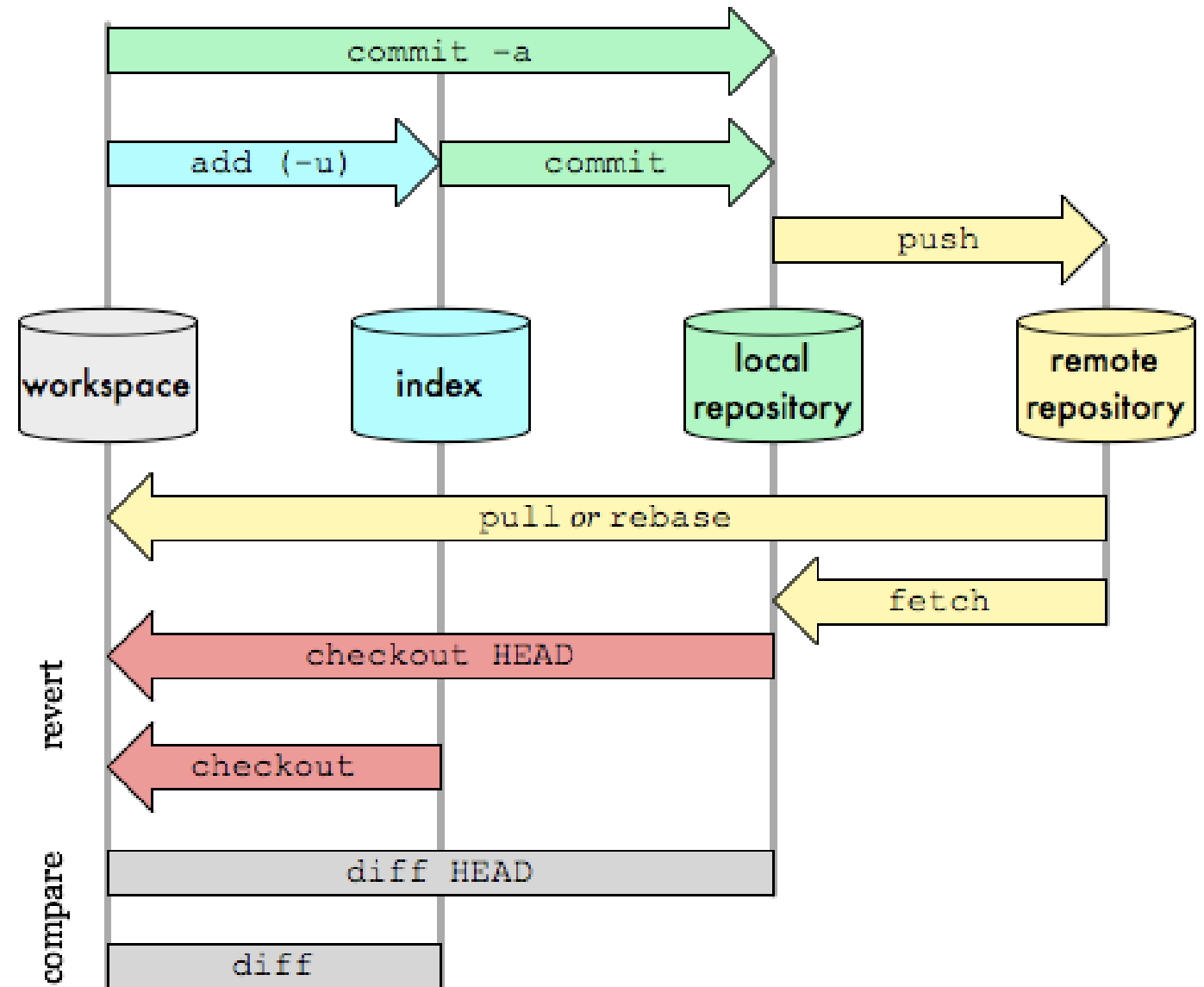


Git Workflow Detailed

- **Workspace**: the files and folders in your git folder
- **Index**: “Staged” files, to be added / updated into your repository
- **Local**: all historical committed changes to all of your files, stored on your machine
- **Remote**: the shared, cloud version of the repo

Git Data Transport Commands

<http://osteele.com>



Set Up Your Repo

- Clone your Repo
 - Log onto <http://BitBucket.org> (using credentials you gave to TE)
 - Find your repository
 - Click Clone, and copy the command (HTTPS)
 - Windows-Start Git Bash
 - Paste the Clone command
- Run the setup script
 - `sh setup-c.sh`
 - `Git remote -v`
 - `Git pull upstream master`

Homework

- Student exercises
 - View the ReadMe
 - Open With Visual Studio Code
 - Ctrl-Shift-V to Preview
 - Do the exercises
 - Push your work
 - Git push (or git push origin master)
- Reading for tomorrow
 - [Student Book](#)
 - [Trello Syllabus](#)
- Quiz posted mid-afternoon
 - Visit <http://www.Socrative.com>