



# Module 1 Day 1

Introduction to Tools

# Mike Morel

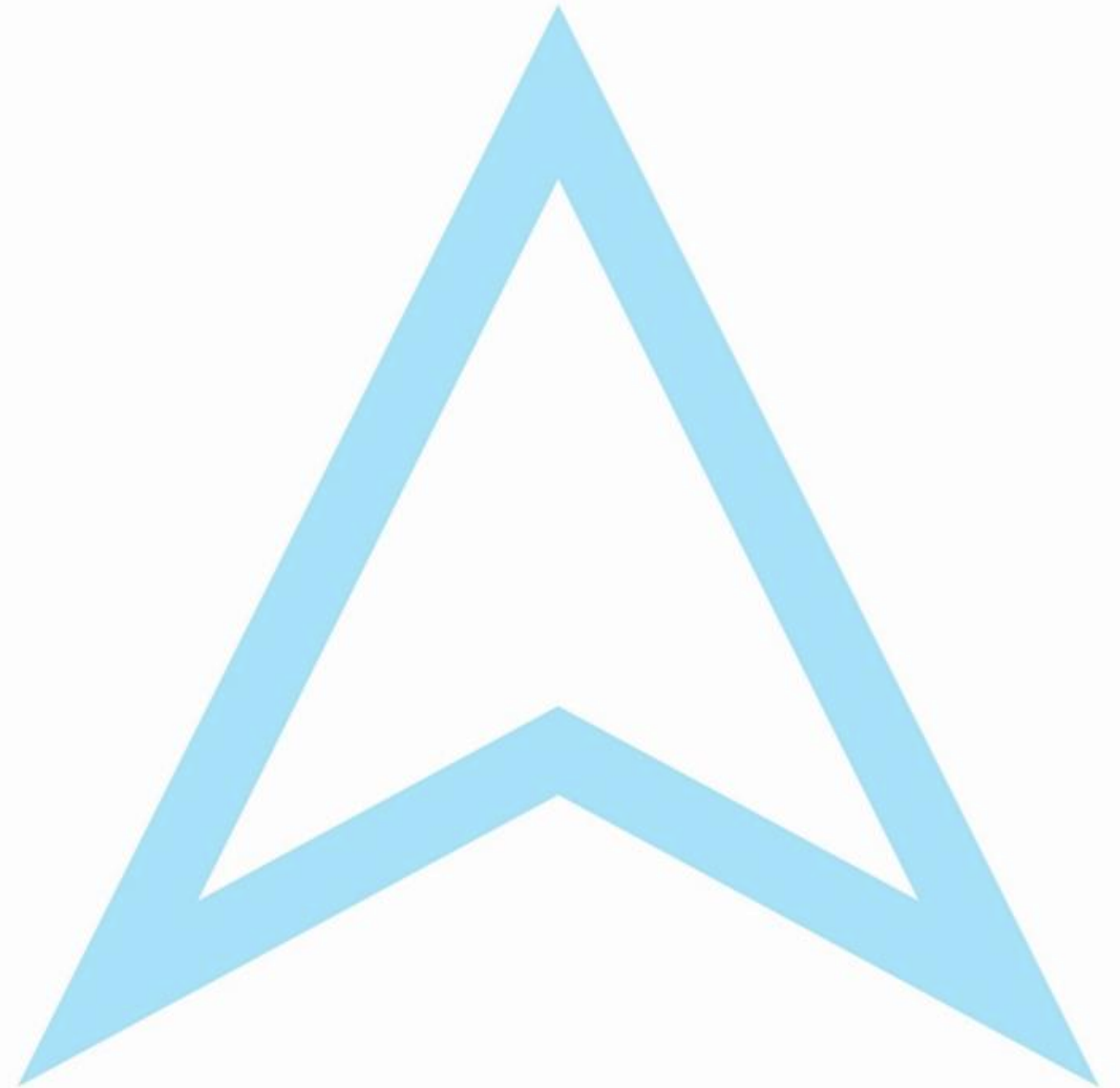
- [mike@techelevator.com](mailto:mike@techelevator.com)
- <https://www.linkedin.com/in/michael-morel/>
- Ryver: Mike Morel (@mmorel)
- Hours: 8:00am – 3:00pm

# 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. You are expected to complete all quizzes to help you and me assess your understanding.
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 <sup>nd</sup> morning after it is assigned. (homework assigned Monday is due Wednesday 9:00am)
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
- Special symbols: `~` `/` `.` `..`
  - `/` root directory
  - `~` user's home directory
  - `..` the current directory's parent

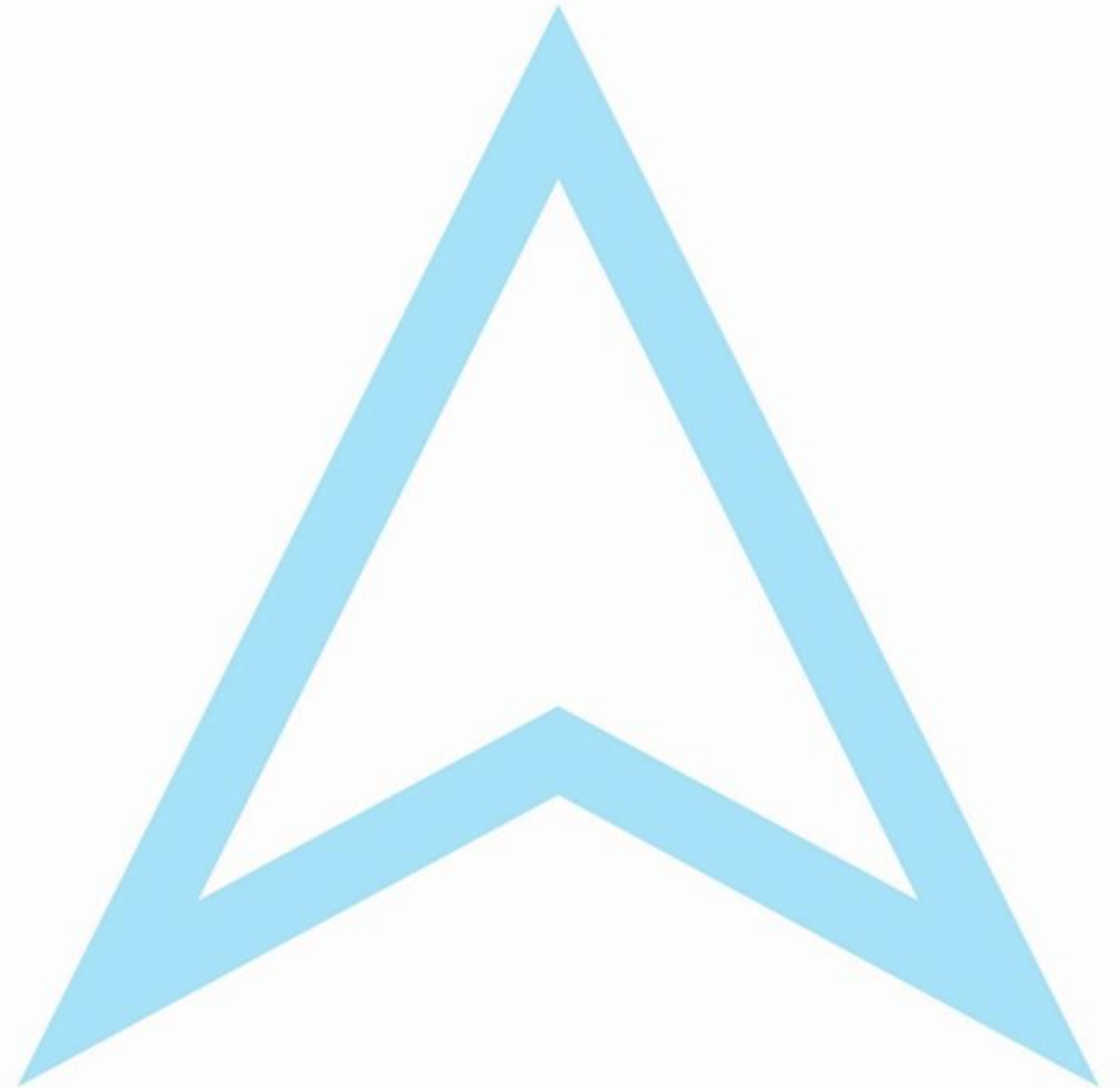


# Command Shell (Bash)

- Listing, creating and deleting files
  - `ls`
  - `touch filename.ext` – creates an empty file (updates the mod date of an existing 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
- Recursively Delete folders and files
  - `rm -r foldername`
- Cheat sheet: <https://www.git-tower.com/learn/cheat-sheets/cli>

# Source Code Control with Git

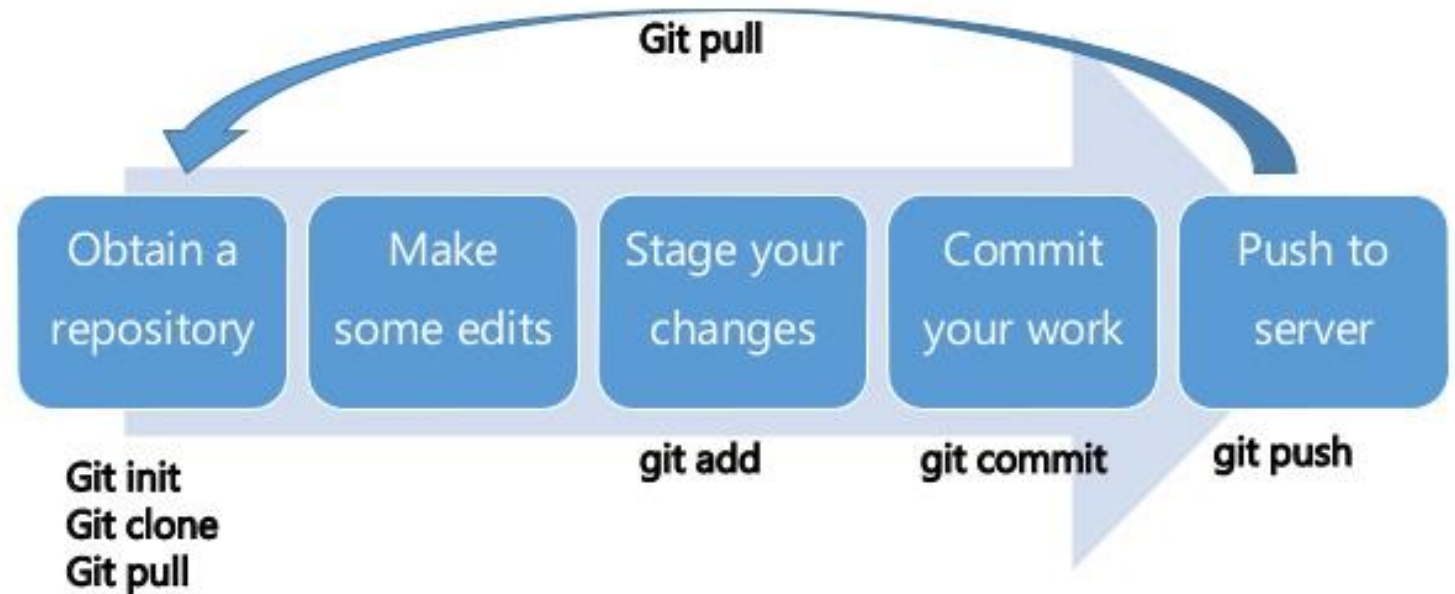
- Version Control
  - Code-sharing
  - History
  - Parallel development
- Git
- Local and remote repositories
- BitBucket and GitHub



# The Git Workflow

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

## Git usages : Understanding Git Workflow

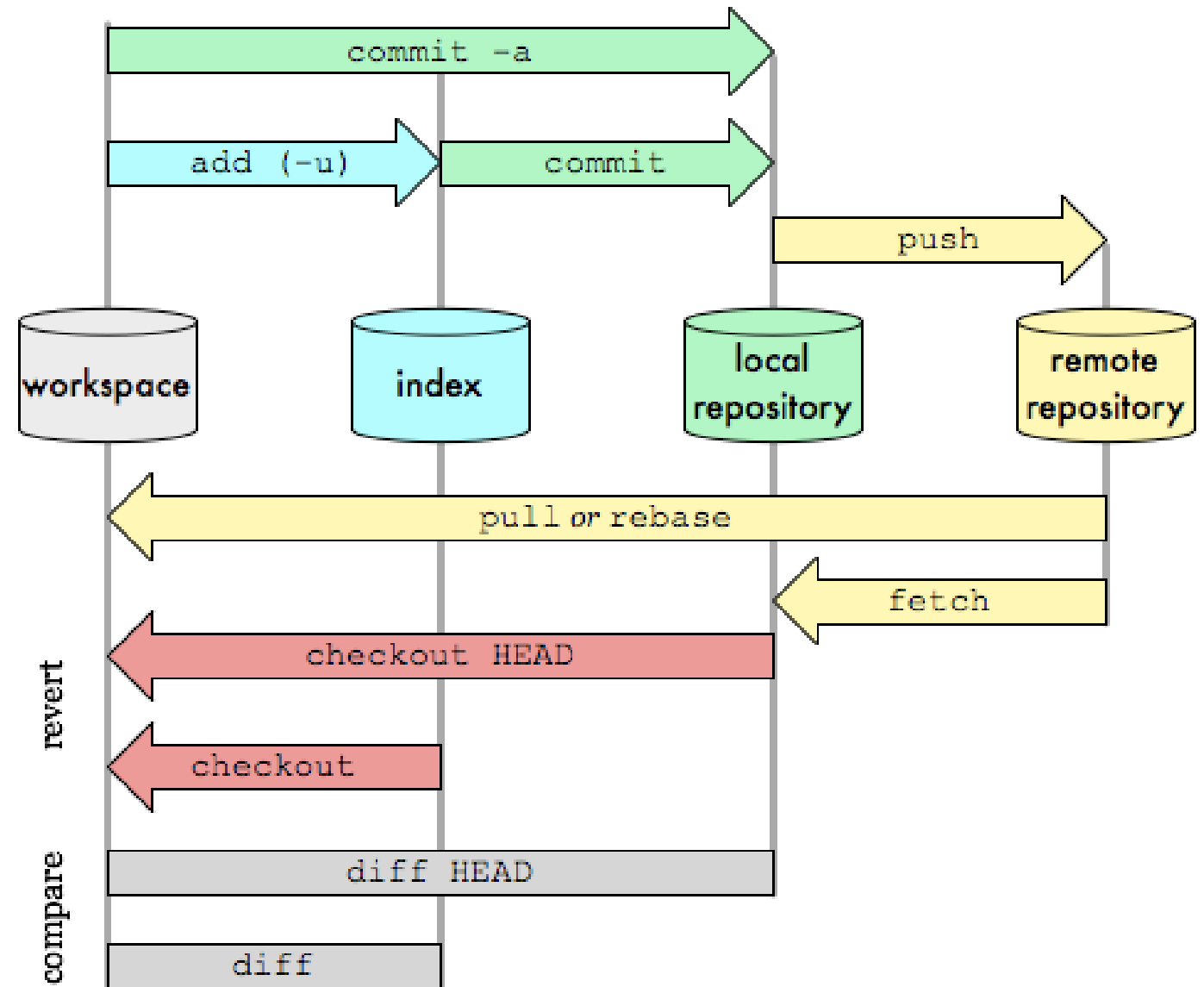


# Git Workflow Detailed

- **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
- Git Cheatsheet: <https://www.git-tower.com/learn/cheat-sheets/git>

# 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>