





### Code Repositories

Some of the metadata that a repository contains includes, among other things:

A historical record of changes in the repository

A set of commit objects

A set of references to commit objects, called heads

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4

### Code Repositories

Repos can be architected in several ways

Probably the most popular is a central repository, from which team members can download the entire code base to their local machine, work on it, and upload their changes

Any conflicts that occur (and conflicts DO occur!) can more easily be resolved by comparing changes – or concurrent changes – to earlier versions of the code

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### Code Repositories

Versioning is the KEY

If a change breaks something, versioning allows developers to 'roll back' to the last working version Then

Figure out what went wrong

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7

### Code Repositories

We will be using GitHub for our semester projects

There are several steps (following) that have to be completed The responsibility for creating and maintaining the repo is the Team Leader's

Each team member will create a (free)  $\operatorname{GitHub}$  account, if you don't already have one

The Team Lead will create the repo and ensure that all team members can contribute  $% \left( {{{\rm{D}}_{\rm{B}}}} \right)$ 

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Other team members, see below	Sensetiar project for CO2 1210
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## SEARCH ON GITHUB FOR YOUR TEAM'S REPO ben4808/webstars A web-based star map generator Ruby Updated on Aug 14, 2013 🗮 Apps ★ Boormanis 🚮 Facebook 📙 ETSU 📙 Google 👖 Sho 💭 webStars 🛛 webstarsystem/webstarsystem\_test test php webstarsystem test // Updated on Apr 7, 2012 ALTERNATIVELY, THE TEAM LEAD, ONCE THE REPO IS CREATED, CAN DISTRIBUTE THE URL TO THE REST OF THE TEAM Csci1210-webStars/webStars Semester project for CSCI 1210 HTML Updated 1 hour ago 1 2 3 Next East Tennessee State University Department of Computing CSCI 1210 Essentials of Web Design

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	Add an Existing Repository from your hand drive -	
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FILE EXPLORER This is your local copy of the repo, where you'll create, modify, and save files as you work. You could use a flash drive 📕 i 🕑 📑 👻 i webStars Home Share View Home Samare view → Copy Paste Copy path Copy Copy Paste Copy path Paste Stortcut Clipboard Organize ↑ 🧾 → This PC → Documents → GitHub → webStars \* Name Nova Videos \_\_\_\_\_.git 1210 1 ate Unive Department of Computing Essentials of Web Design 34















When you go back to do more work...

Someone else on your team may have made changes and/or additions and uploaded them to the repo So, first thing you have to do is pull a new copy of the repo to your computer

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 Image: Set the set the

 When you go back to do more work...

 If you don't see the 'pull prompt,' pull anyway:

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### Code Repositories

This chart shows the workflow you'll follow when working on your project. It's important to remember that once you've made changes, they have to be uploaded to the repository so everyone will be able to access your work





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