



**ROI TRAINING**  
MAXIMIZE YOUR TRAINING INVESTMENT™

# Cheat Sheet: Git Branching and Collaboration

# Using Branches

- Try creating a branch called: new-feature-X
  - Make a change and commit in that branch
  - Switch back to the master branch
    - Look at code
  - Switch back to new-feature-X
    - Look at code
  - Merge the changes back to master
- For more detailed steps, use the next 2 slides for help

# Branching Commands

- To list all branches:  
**git branch**
- To create a branch:  
**git branch new-feature-X**
- To select a branch  
**git checkout new-feature-X**
- Make changes to code and commit changes the normal way  
**git commit -a -m "some message"**
- Can switch between branches with:  
**git checkout master**  
**git checkout new-feature-X**

# Merging Branches

- To merge a branch to master:
  - First checkout the master:  
**git checkout master**
  - Then merge the branch:  
**git merge new-feature-X**
- May need to resolve conflicts

# Collaboration

- Nominate one team member to host the main repo in GitHub
  - That person needs to invite the other teammates
    - In the GitHub external repo: click **Settings**, click **Manage Access**, click **Invite a collaborator**, enter email of team mates
  - Other teammates need to check email and accept invite
- Teammates now need to clone repo
  - In cloudshell, issue the following commands:  
`mkdir ~/shared-repos`  
`cd ~/shared-repos`  
`git clone <GIT_HUB_URL_TO_SHARED_EXTERNAL_REPO>`  
`ls`

# Collaboration

- Each teammate should now try to:
  - Create a branch in the new repo
  - Make a change to the branch
  - Merge the branch with the master branch
- If a teammate changes the repo, you have to pull the changes
  - git pull

# Collaboration

- Do the same thing for the repo for the internal service