

Cheat sheet: Git (#1)

Setting up user data (once per account)

```
git config --global user.name YOUR_NAME
git config --global user.email YOUR_EMAIL
```

Setting up defaults (once per account)

```
git config --global core.editor YOUR_EDITOR
git config --global diff.tool YOUR_DIFFTOOL
git config --global init.defaultBranch main
```

Listing git configuration

```
git config --list
```

```
Git config file      ~/.gitconfig
Git ignore file      PROJECT_DIR/.gitignore
```

Initializing repo (once per project)

```
git init
git -m main          (if not main already)
```

Getting project status

```
git status
```

Adding files to stage (from working dir.)

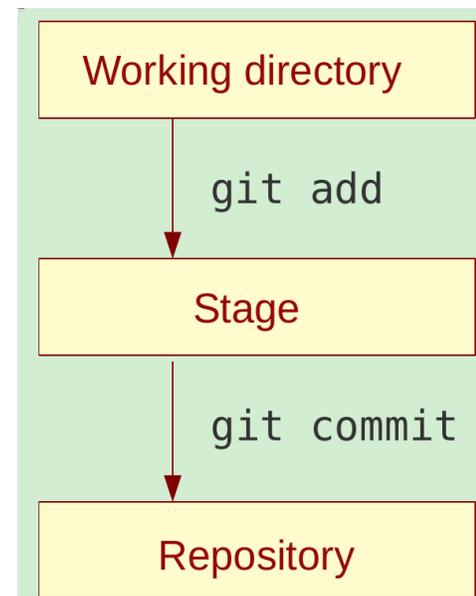
```
git add FILENAME
```

Commit files to repository (from stage)

```
git commit          Editor opens for log msg.
git commit -m "YOUR_LOG_MESSAGE"
```

View commit history

```
git log
git log --oneline
```



Cheat sheet: Git (#2)

Renaming files / directories

```
git mv OLD NEW
```

Deleting files / directories

```
git rm FILE_OR_DIR
```

Investigating differences

```
git diff  
git diff FILE_OR_DIR  
git diff COMMIT_1 COMMIT_2 -- FILE_OR_DIR  
git difftool ...
```

Discarding changes in ...

```
workdir  git restore FILE_OR_DIR  
stage    git restore --staged FILE_OR_DIR
```

Switching to an earlier commit (detached head)

```
git switch --detach COMMIT
```

Switching to most recent commit (attached head)

```
git switch BRANCH
```

Tagging a version (annotated tag)

```
git tag -a TAG
```

Defining aliases for git commands

```
git config --global alias.ALIAS COMMAND
```

Tracking remote repositories

```
git clone REPOSITORY_URL  
git pull
```

Cheat sheet: Git (#3)

Creating branch

```
git branch BRANCH_NAME
```

Switching to an existing branch

```
git switch BRANCH_NAME
```

Creating a new branch and switching to it

```
git switch -c BRANCH_NAME
```

Merging a branch into the current one

```
git merge BRANCH_NAME
```

```
git merge --ff-only BRANCH_NAME
```

Registering a remote repository

```
git remote add REMOTE_ALIAS REMOTE_URL
```

Fetching remote branches (without merging it into any local branch)

```
git fetch REMOTE_ALIAS REMOTE_BRANCH_NAME
```

Pulling remote changes and merging it into current branch

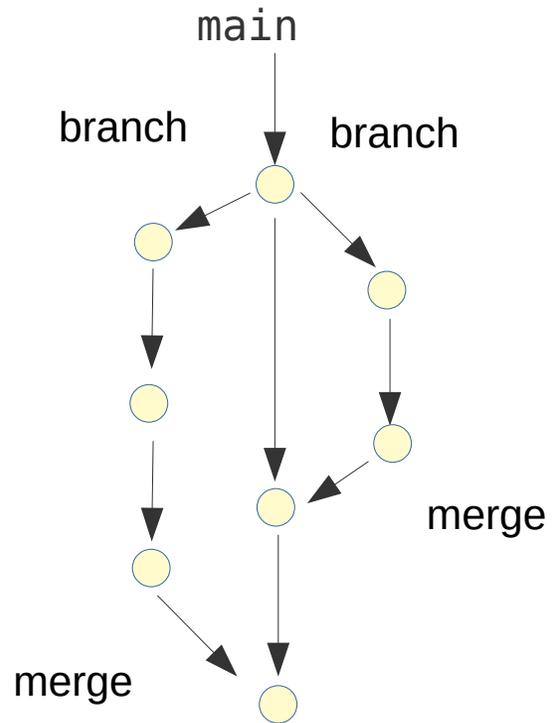
```
git pull REMOTE_ALIAS REMOTE_BRANCH_NAME
```

Pushing current branch to remote repo

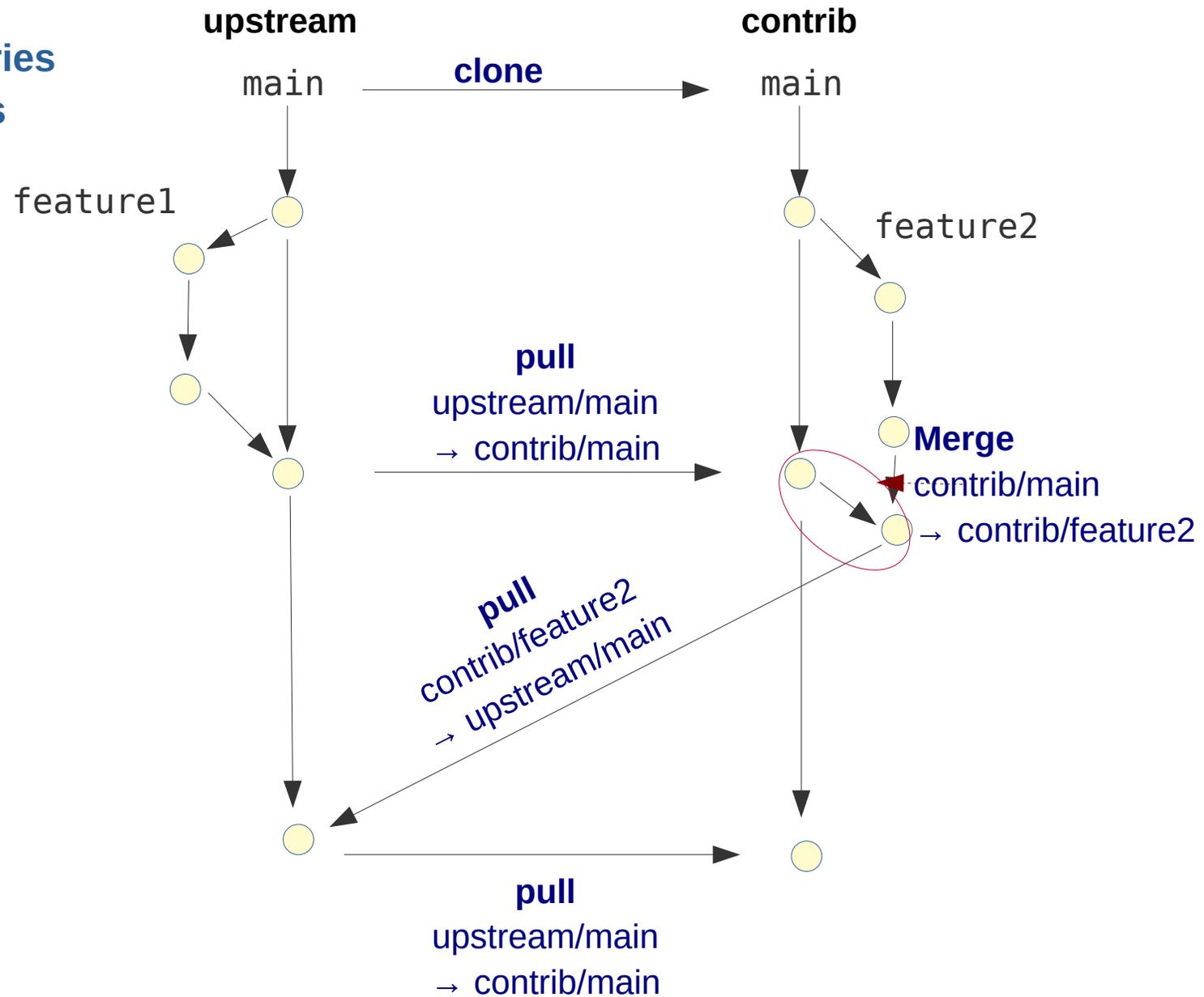
```
git push REMOTE_ALIAS REMOTE_BRANCH_NAME
```

Cheat sheet: Git (#4)

Workflow:
single repository
multiple branches



Workflow:
multiple repositories
multiple branches



Cheat sheet: Git (#5)

Workflow:
hosted repositories

