Git - cheat sheet

INSTALLING GIT

Download link
http://git-scm.com

CONFIGURING GIT

Configure your name
```
git config --global user.name "[name]"
```

Configure your email
```
git config --global user.email "[email address]"
```

Enable colored output
```
git config --global color.ui auto
```

CREATING A REPOSITORY

Create new repository
```
git init
```

Clone existing repository
```
git clone [repository url]
```

MAKING AND COMMITTING CHANGES

Add changes to staging area
```
git add [filename]
```

Commit changes to local repository
```
git commit -m "[commit message]"
```

View status of working directory
```
git status
```

Compare working directory to staging area (index)
```
git diff
```

Compare staging area (index) to local repository
```
git diff --staged
```

View list of commits in current branch
```
git log
```

Compare contents of two branches
```
git diff [branch1 name] [branch2 name]
```

BRANCHING

Show list of branches
```
git branch -v
```

Create a new branch
```
git branch [branch name]
```

Switch to a branch
```
git checkout [branch name]
```

Delete a branch
```
git branch -d [branch name]
```

MERGING

Merge commits from a branch into current branch
```
git merge [branch name]
```

WORKING WITH REMOTE REPOSITORIES

Show list of remote repositories
```
git remote -v
```

Track a new remote repository
```
git remote add [remote name] [repository url]
```

Show information about a remote repository
```
git remote show [remote name]
```

Stop tracking a remote repository
```
git remote remove [remote name]
```

SYNCHRONIZING WITH REMOTE REPOSITORIES
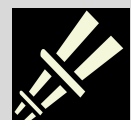
Fetch changes from remote repository
```
git fetch [remote name]
```

Merge fetched changes into current branch
```
git merge [remote name]/[branch name]
```

Push changes to remote repository
```
git push [remote name] [branch name]
```

Git - cheat sheet

Local repository / commits (.git folder)

staging area (index)

X1

git commit

X1

git fetch
or
git pull

git push

git diff --staged

git add

git diff

git status

X1

Remote repository / commits (github)

X1

working directory

Local repository (commits)

staging area (index)

X1

X2

X3

git commit

X3

master

git add

X3

working directory

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