

# Getting Started With Git Cheat Sheet by MKoe via cheatography.com/174546/cs/36660/

### Centralized Version Control Systems - p. 11

Single server contains all versioned files Several clients check out from central server

Centralized server represents single point of failure

### Distributed Version Control Systems - p. 12

Clients don't just check out the latest snapshot of the files

Every clone is really a full backup of all the data.

### What is Git - p. 14

Snapshots takes picture of what all files look like when commiting and stores a reference to that snapshot

If files have not changed, only the previously saved file is linked

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Local operations only need local

Operations files and resources

entire history of the project on

local disk

work can be continued when

offline

Integrity files are checksummed and

then referred to by that

checksum

SHA-1 hash is used for

checksumming

SHA-1 40-character string composed hash of hexadecimal characters

calculated based on the contents of a file or directory

everything in Git database saved by hash value of its

contents

Adding actions only add data to

database

once committed data loss is

very difficult

The three states of files - p. 16

Modified file changed but not

committed to database yet

**Staged** modified file is marked to go

into next commit snapshot

Committed data is safely stored in local

database

Main Sections of a git project - p. 17

Working single checkout of one project

tree versio

Staging file with information about

area next commit

Repository metadata and object database

#### Installing Git - p. 18

Most official build for Windows is available for download on the Git website

Git for Windows is separate from Git itself

#### git config - p. 21

get and set configuration variables that control all aspects of how Git looks and operates

global values applied to every user on config the system and all their reposi-

file torie

git config --system

**user** values specific to user

config file

git config --global

local file of current repository config

file

git config --local

When looking for a configuration value, Git will start at the local level and bubble up to the system level.

View git config --list --show-origin settings

First Time Setup - p. 22

name git config --global user.name

"John Doe"

email git config --global user.email

johndoe@example.com git config --global core.editor

emacs

branch git config --global init.default-name Branch main

settings git config --list

specific e.g. git config user.name

values

editor

Git might read same configuration variables value from more than one file. Having unexpected values is possible.

## Getting Help - p- 24

git help command for seeing manpage

<verb>
git <verb> equivalent command

--help
git <verb> overview of available options
-h for git commands



data

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