Cheatography

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
Local Operations	operations only need local 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 hash	40-character string composed 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 data	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 tree	single checkout of one project version
Staging area	file with information about 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 config file	values applied to every user on the system and all their repositories
	git config --system
user config file	values specific to user
	git config --global
local config file	file of current repository
	git config --local

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

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

First Time Setup - p. 22

name	git config --global user.name "John Doe"
email	git config --global user.email johndoe@example.com
editor	git config --global core.editor emacs
branch name	git config --global init.defaultBranch main
settings	git config --list
specific values	e.g. git config user.name

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

Getting Help - p- 24

git help <verb>	command for seeing manpage
git <verb> --help	equivalent command
git <verb> -h	overview of available options for git commands

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Not published yet.
Last updated 23rd January, 2023.
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