Git commands

Git is an open source, distributed version control system designed for speed and efficiency

Agenda

- Git Basic Commands
- Git ignore
- Sublime Integration
- Notepad++ Integration

Git config : One time setup

- git-config - Get and set repository or global options
- Being a distributed version control system, need to identify current user through config:

```
$ git config --global user.name "username"
$ git config --global user.email "email"
$ git --help
$ git --version
```

Git Working with Local Repository

- ## Create new directory
  - `$ mkdir gitbasics`

- ## Create a new empty repository

  `$ git init - Create an empty Git repository or reinitialize an existing one`

Name	Date modified	Type	Size
hooks	29-01-2021 07:01	File folder	
info	29-01-2021 07:01	File folder	
logs	29-01-2021 07:08	File folder	
objects	29-01-2021 07:14	File folder	
refs	29-01-2021 07:01	File folder	
COMMIT_EDITMSG	29-01-2021 07:11	File	1 KB
config	29-01-2021 07:01	File	1 KB
description	29-01-2021 07:01	File	1 KB
HEAD	29-01-2021 07:01	File	1 KB
index	29-01-2021 07:17	File	1 KB

Git : Workspace
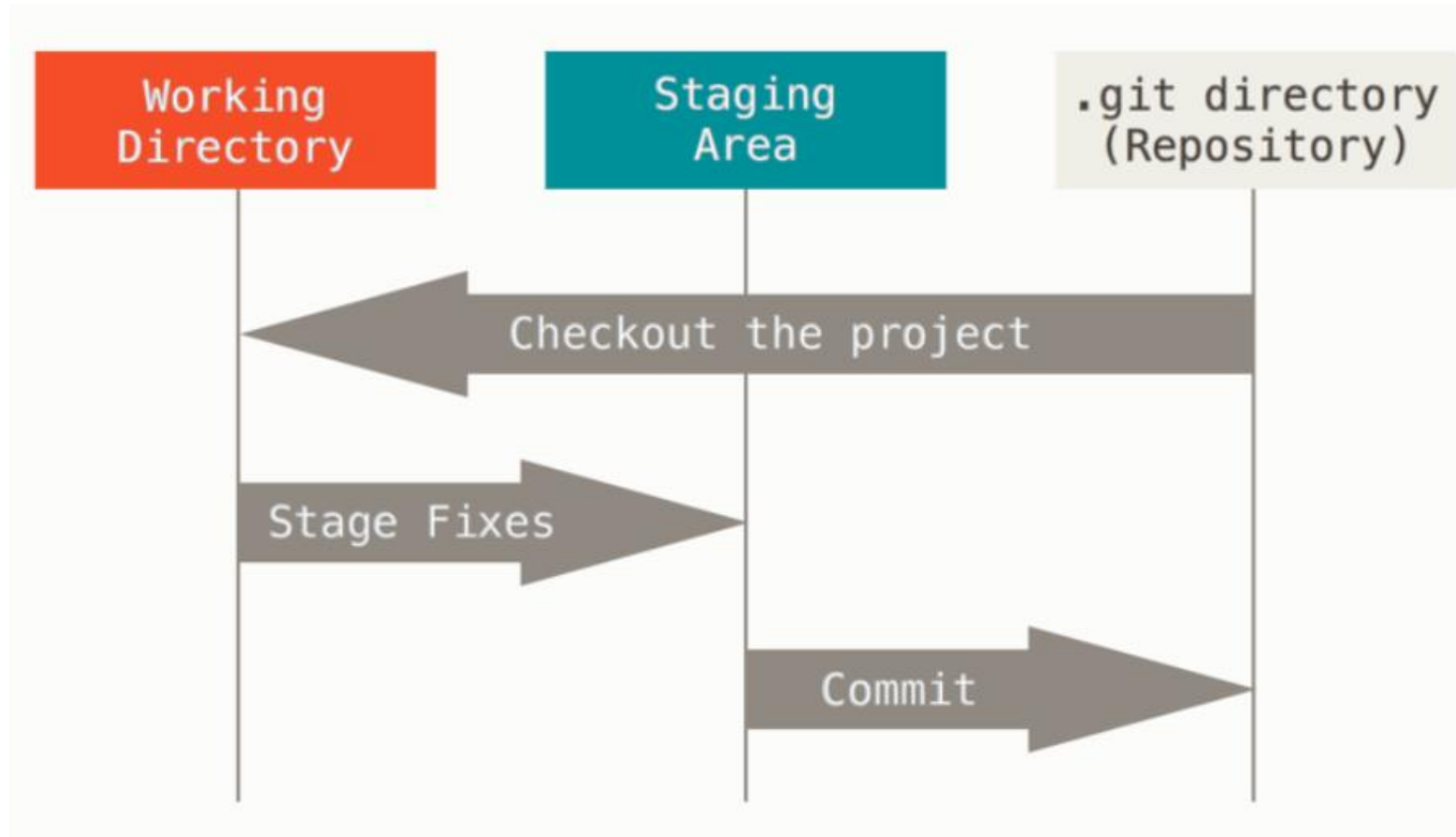
Git Working with Local Repository

- Add files

  Create files using favourite editor and save in current directory

  ```
  $ touch File1.html
  $ "File 2 created">File2.html
  ```

GET IT RIGHT
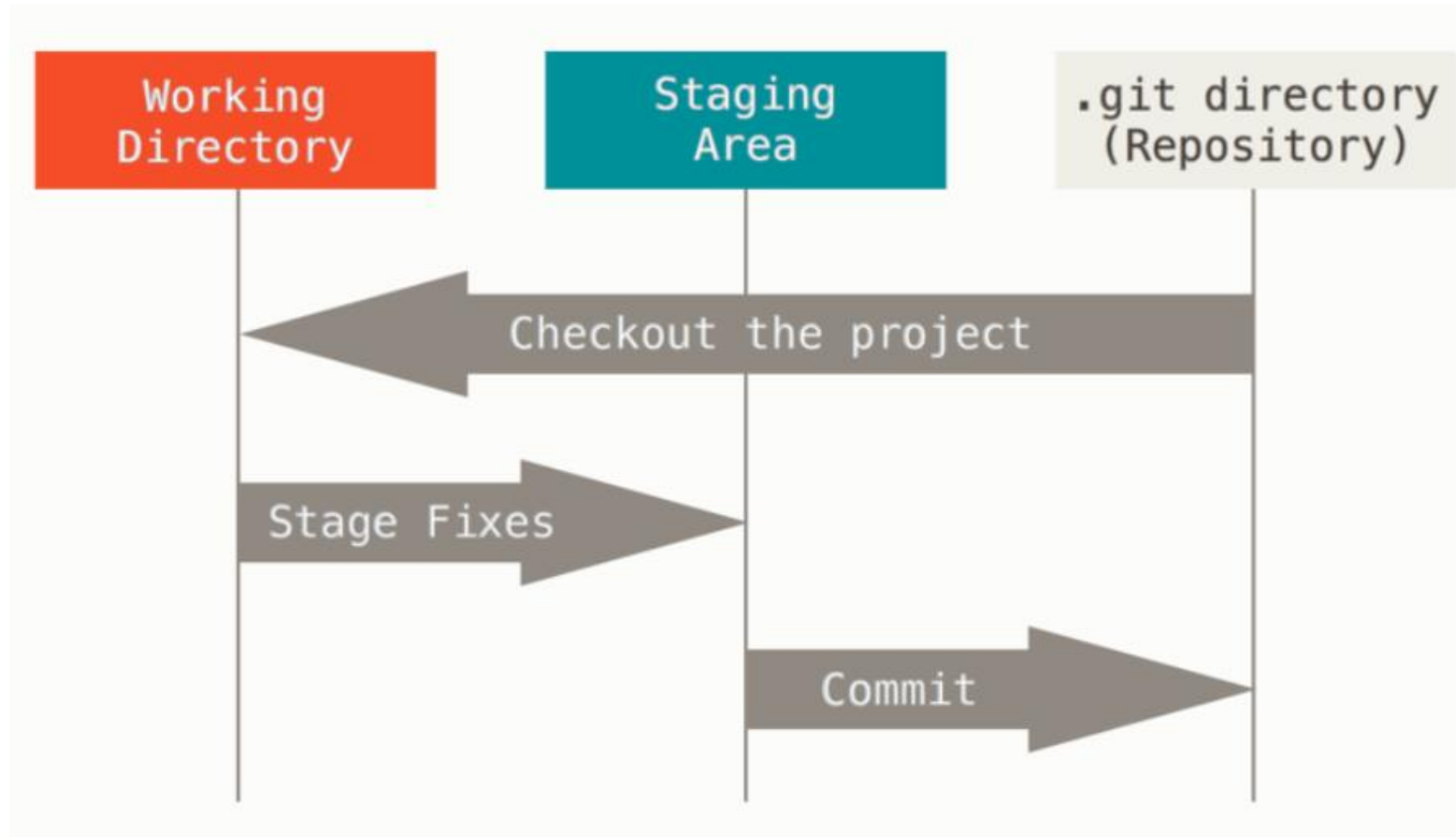
Git : Workspace

Git Working with Local Repository

- Stage / Index files - Add file contents to the index, enable tracking of file contents

  ```
  $ git add .
  ```
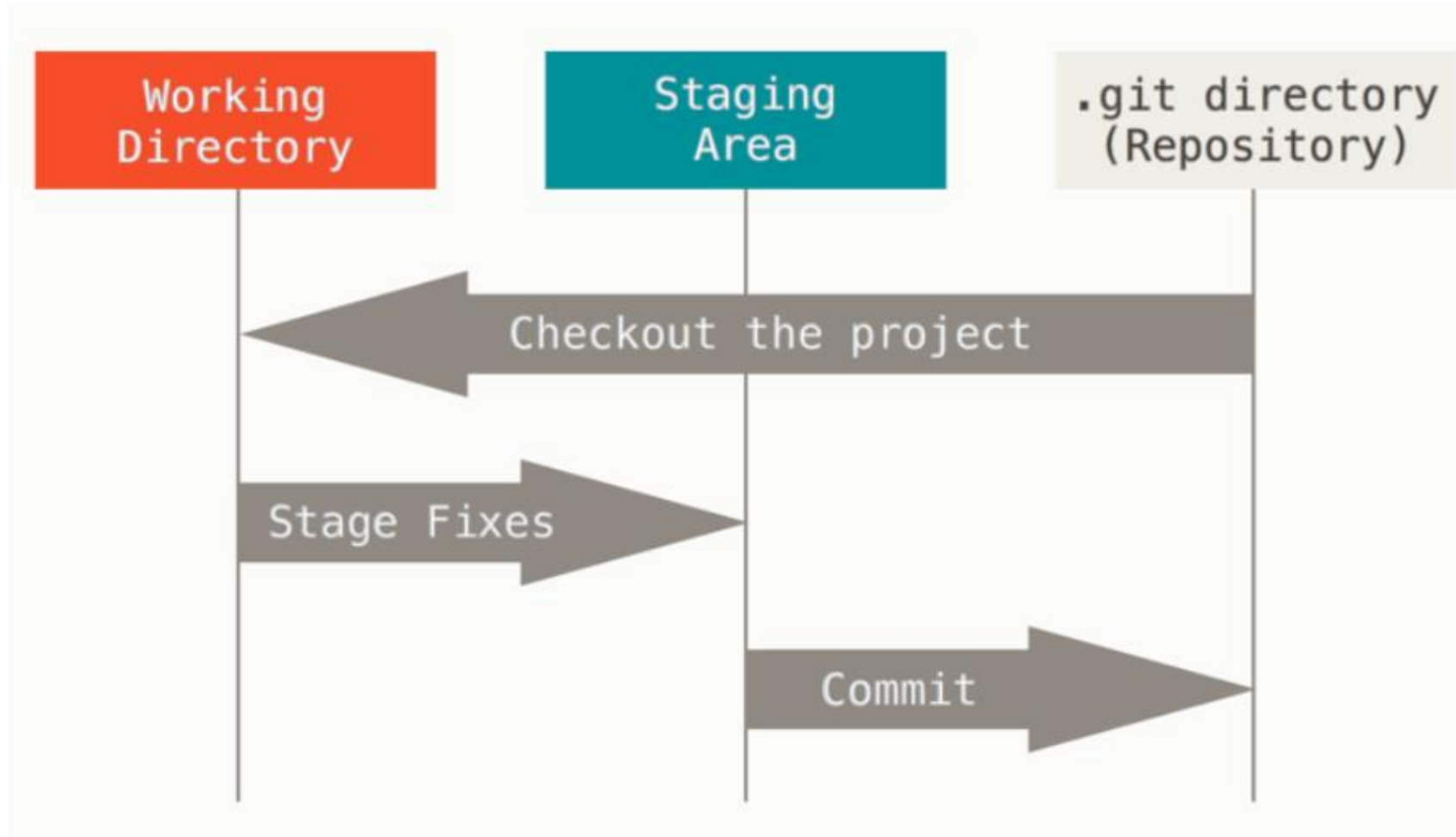
- Show the working tree status

  ```
  $ git status
  ```

- Commit changes and Record changes to the repository

  ```
  $ git commit –m "Initial change!"
  ```

GET IT RIGHT

Git : Workspace

Understanding History - Commits

- Every change in the history of a project is represented by a commit. The git-show(1) command shows the most recent commit on the current branch:

    $ git show

    $ git log

- Every commit (except the very first commit in a project) also has a parent commit which shows what happened before this commit. Following the chain of parents will eventually take you back to the beginning of the project.

GET IT RIGHT

Tracking Changes

- git add File2.html
- "File 2 changes">>File2.html
- git restore
- git diff
- git commit –a –m "commit multiple files"

Ignoring files

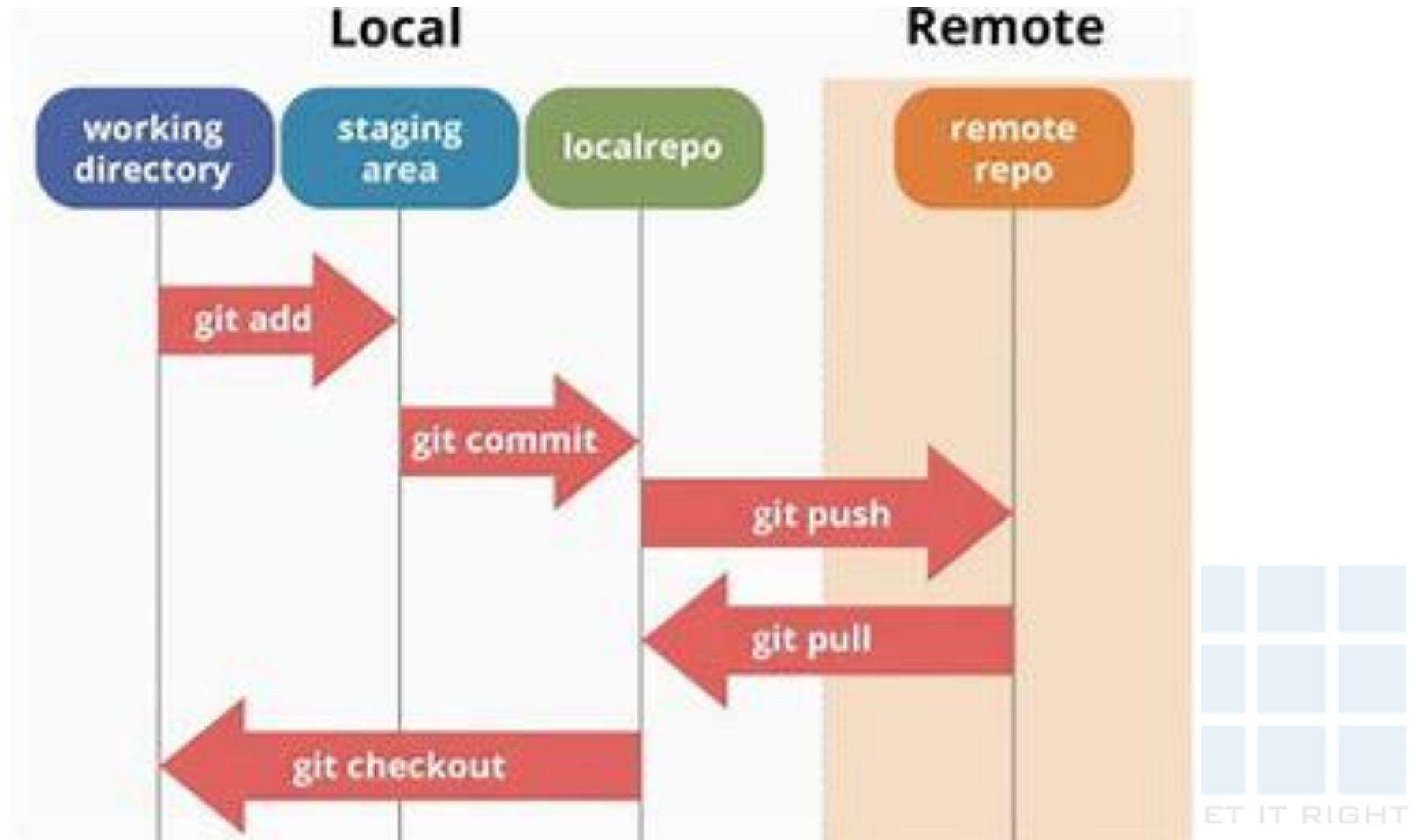- Update .gitignore
- *.class
- git log

Git Hub Registration – Remote Repositories

- A hosted service for remote git repositories.
- Unlimited PUBLIC repositories for Open source projects.
- Widely popular with Open Source community.
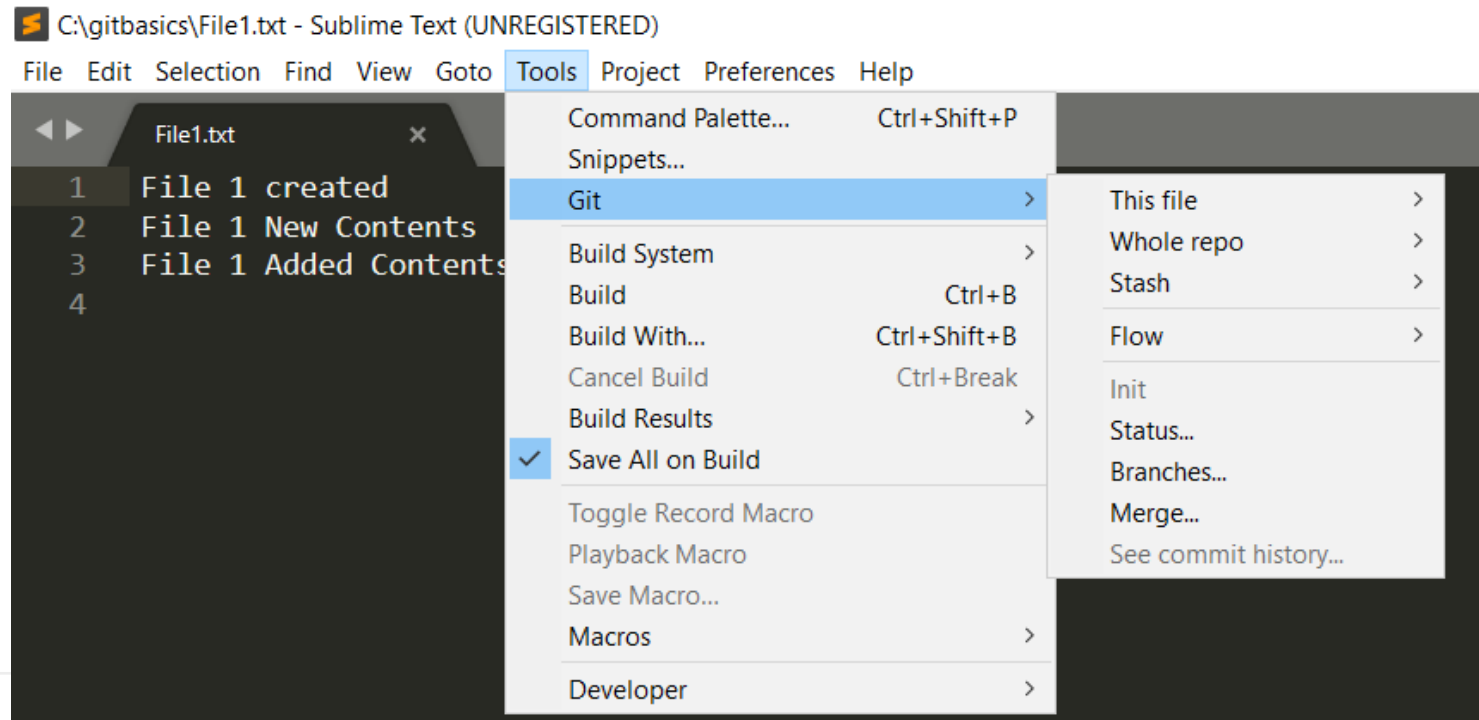 - Even Linus Torvalds has complete Linux Kernel source on GitHub!
- Visit https://github.com

GET IT RIGHT

Git File Workflow

Sublime Text Download

- Sublime Text Download
  - https://www.sublimetext.com/3
- Tools-> Command Palette
  - Install Package git
- Sublime Merge Download
  - https://www.sublimemerge.com/download

Notepad++ Download

- Notepad++ Download
    - https://notepad-plus-plus.org/downloads/
- Adding Git Plugin
    - Plugins -> Plugins Admin -> Git SCM
- Note – Works only with Tortoise Git

GET IT RIGHT

Thank you