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An Introduction

by

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Friday, 18th August 2017.

Contents

Introduction

Why Python:

"Hello, World"

- C

```
#include <stdio.h>

int main(int argc, char ** argv)
{
   printf("Hello, World!\n");
}
```

- Java

```
public class Hello
{
   public static void main(String argv[])
   {
      System.out.println("Hello, World!");
   }
}
```

- now in Python

```
print "Hello, World!"
```

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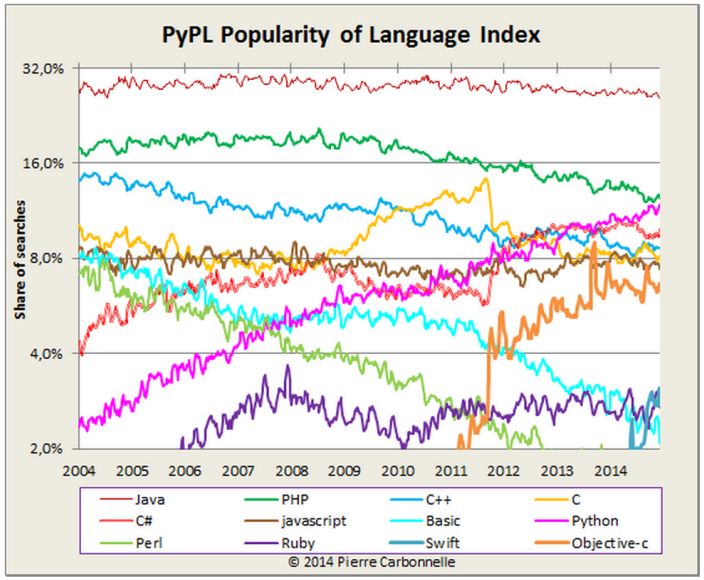
Monday, June 14, 2010



Why Linux:

- Because everyone cannot afford Windows or MacOS
- Its free, Open source
- No insane license restrictions
- Immune to Windows malware, and you don't need anti-malware software

Why Git:

If you have been saving file like this all your life

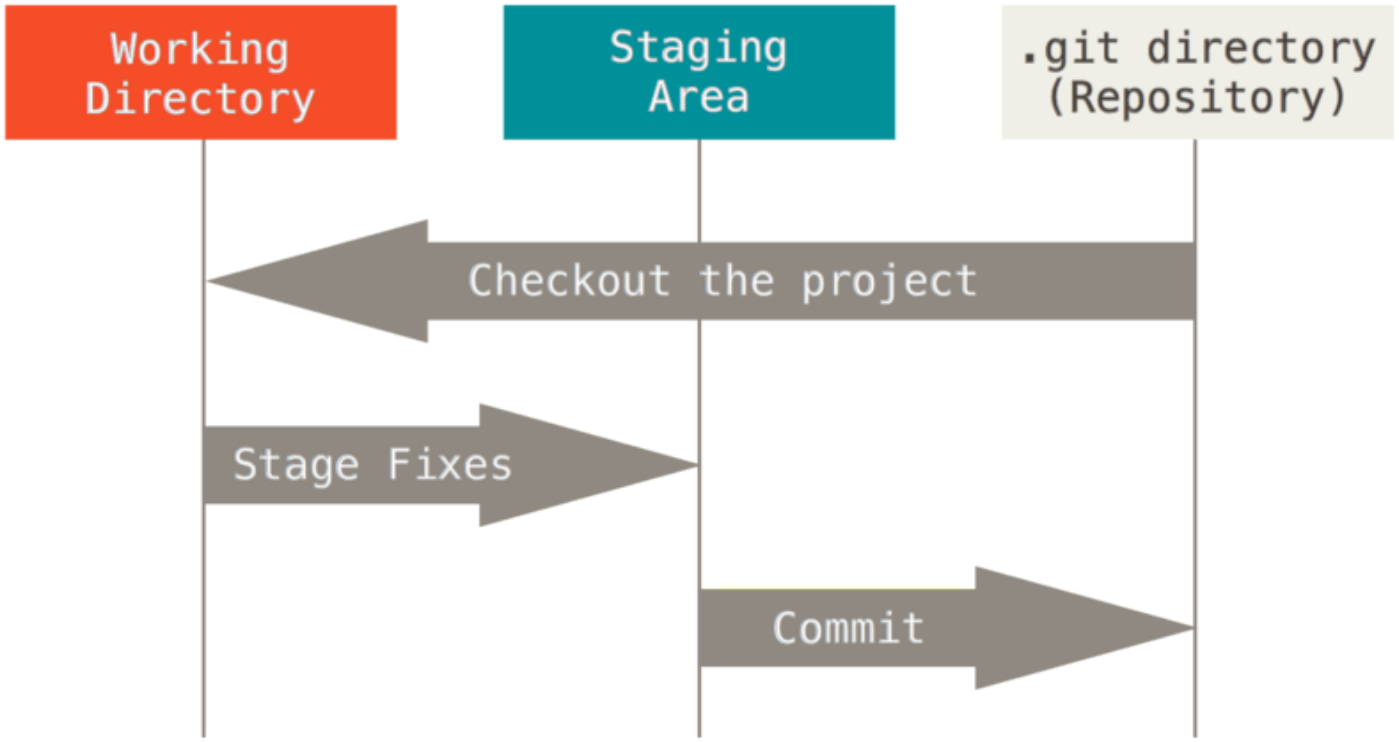
- myfile_version1.txt
- myfile_version2.txt
- myfile_new.txt
- myfile_wrong.txt
- myfile_correct.txt
- myfile_original.txt
- myfile_I_am_running_out_of_names.txt
- myfile_I_dont_want_to_live_anymore.txt
- myfile_arghh_version3.txt

then please embrace GIT.

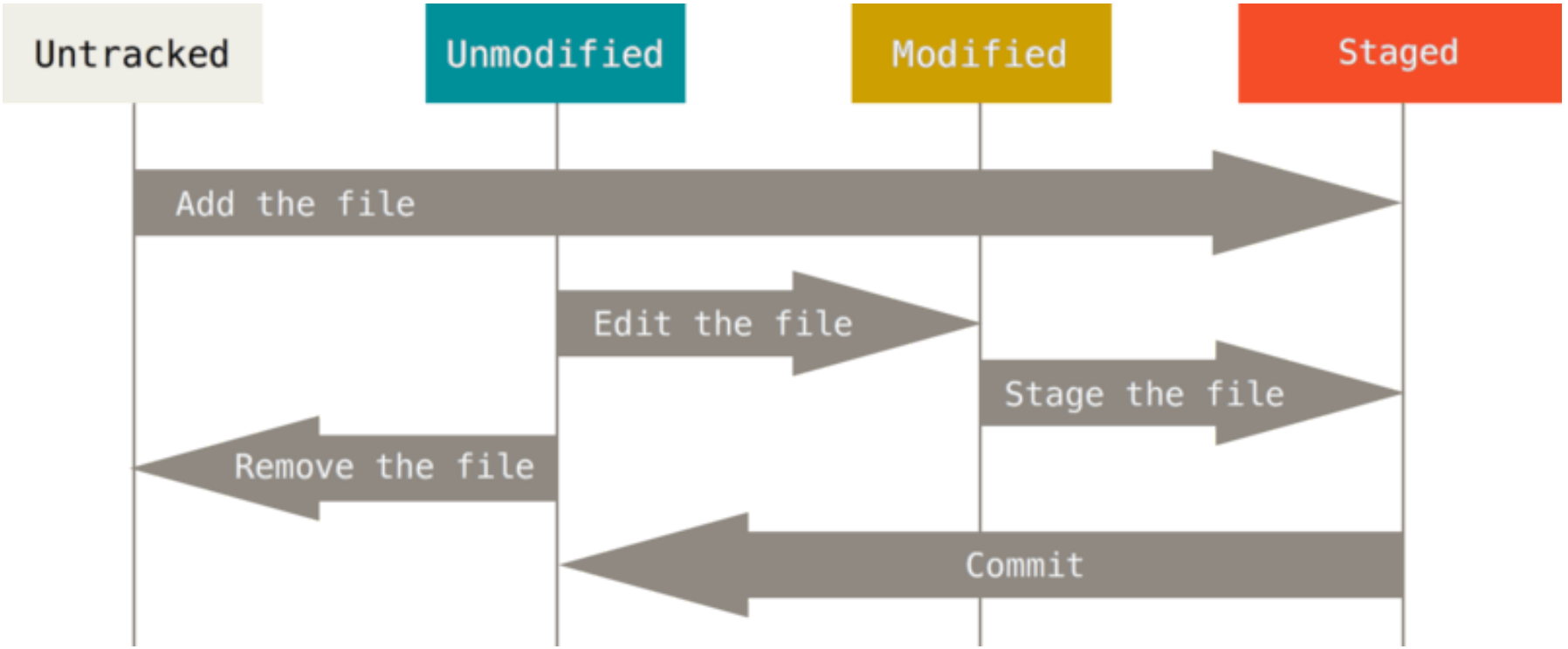
What is Git?

> - Git is a **version control** system for tracking changes in computer files and coordinating work on those files among multiple people.
> - It is primarily used for **source code management** in software development, but it can be used to keep track of changes in any set of files.

The three States in Git



Recording Changes to the Repository



Let's get started!

First things first! Git needs to know you.

```
git config --global user.name "Your Name"
git config --global user.email "your_email@whatever.com"
```

Customary "Hello, World!" program. Execute the commad

```
mkdir hello
cd hello
```

Open a file, type the following in it, and save it as "hello.py".

```
    print "Hello, World!"
```

Check Git status

```
    git status
```

The output should be:

On branch master

No commits yet

Untracked files: (use "git add ..." to include in what will be committed)

        hello.py

nothing added to commit but untracked files present (use "git add" to track)

```
<script>
    var link = document.createElement( 'link' );
    link.rel = 'stylesheet';
    link.type = 'text/css';
    link.href = window.location.search.match( /print-pdf/gi ) ? 'css/print/pdf.css' : 'css/print/paper.css';
    document.getElementsByTagName( 'head' )[0].appendChild( link );
</script>
```