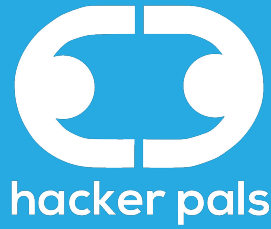
Git and Github Intro



http://www.hackerpals.com


@Hackerpalsau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Install Git

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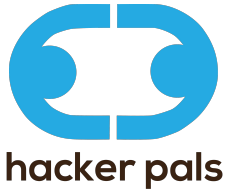
Git-scm.com

Also github has graphic client but it is slow

Also sign up for a free account on GitHub

Why use Source Code Control?



We don't want to forget the past
in case we make a mistake

Why use Source Code Control p2?

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We can work on the same files at different times

How Does Git perform this magic?

How does the Magic Work?

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Git is a database of changes (called commits)

How does the Magic Work p2?

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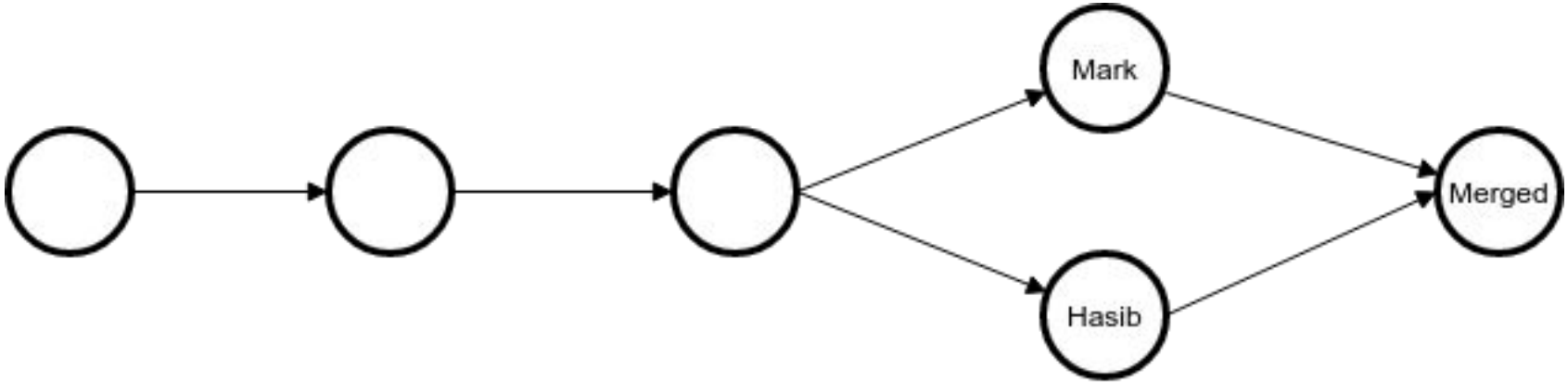

Branch and merge back together

Being Practical

Being Practical?

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Log into Github fork a small Project

`https://github.com/hackerpals/Build-A-One-Page-Website`

Being Practical?

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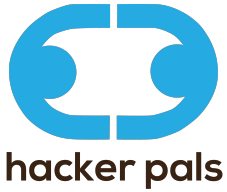
We will use the command line

```
Git clone https://github.com/<your user name>/Build-A-One-Page-Website.git
```

Some Commands



View what we have

```
Git status
```

Add changes to staging

```
Git add .
```

Commit our changes

```
Git commit
```

Some Commands pt2

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View current branches

```
Git branch
```

Change branch

```
Git checkout <branch name>
```

Make a new branch

```
Git checkout
```

Some Commands pt3

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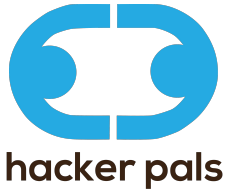
Download changes

```
Git pull
```

Upload changes

```
Git push….
```

Being Practical



Change one of the files

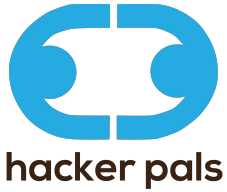
Run git status

It will report files have changed

Run git add . then git status

It will report the changes

Being Practical



Run git commit -m 'Commit comment'

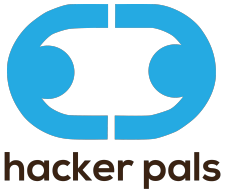
This will add our changes back to the repository

If we run git status

There are no longer any changes outstanding but the computer but we are ahead of the master

Run git push origin master

Being Practical

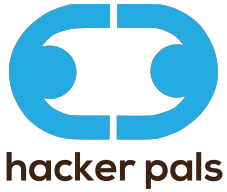


Have a look at github to see your changes

Exercise: use git checkout, git branch and git merge to make changes to a branch and merge them back later

Branching and Merging

Branching and merge



We can work on our code without
Interfering with production

Branching and merge

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A new branch is were we work on new code separately

A merge is where we bring it back together

Reporting Issues

Reporting Issues

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Report an issue on a project we made
Using GitHub

Hosting Static Website Inside Github

Serve Static Files with Github

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Go to options in Github pages and enable Github page

Serve Static Files with Github

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Instructions on pages.github.com

Community

Community

GitHub is a great forum for programmers

Working together on open source

Community

It gives code reviews, project and community management, documentation and code hosting

The End