

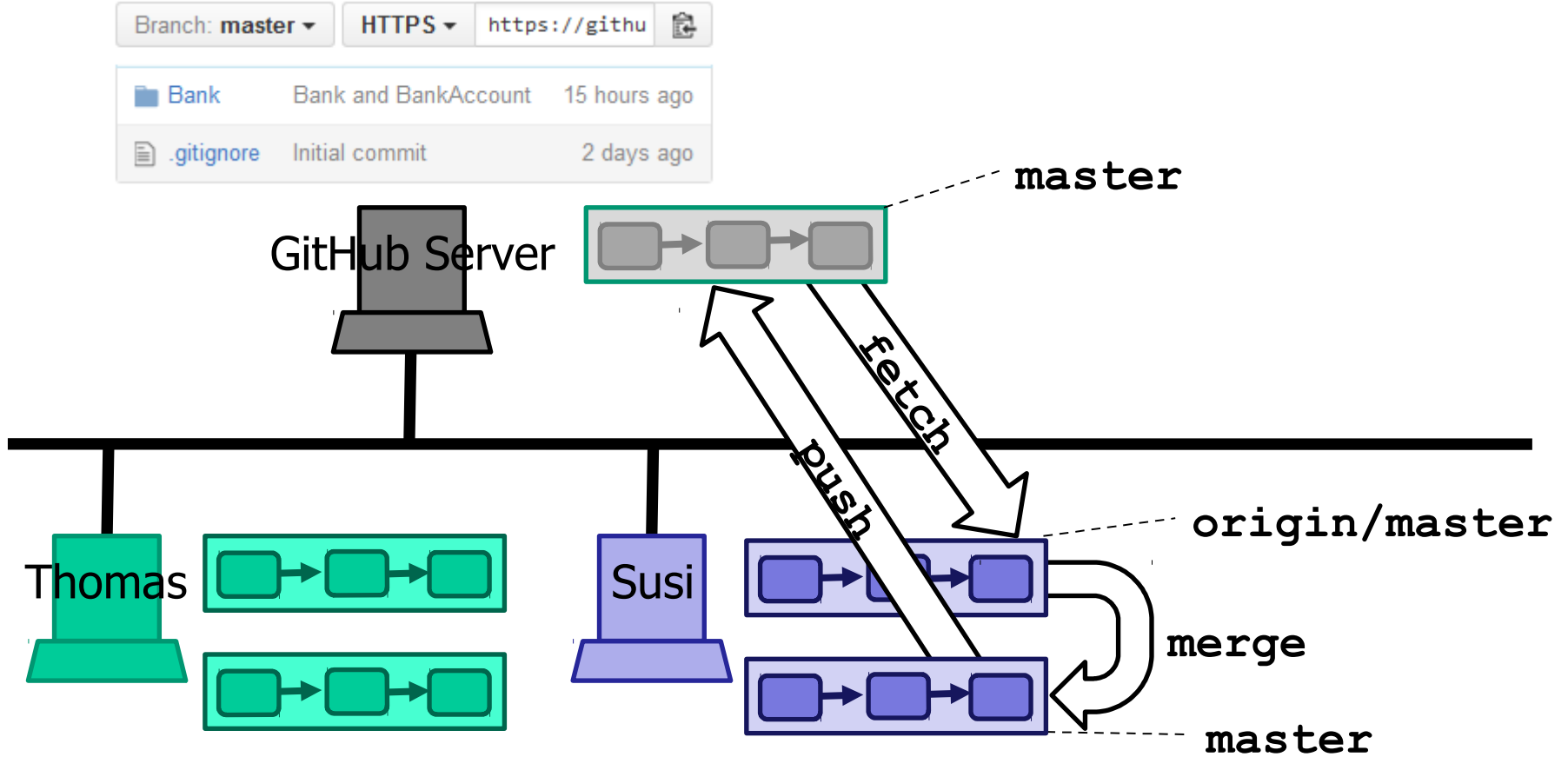
GitHub

Mag. Thomas Griesmayer

Definition

- The hosting service GitHub is a web-based Git repository with a graphical user interface.
- GitHub offers:
 - private repositories
 - free accounts
- `https://github.com/`

Architecture





new repository



Your repositories 1 [+ New repository](#)

Find a repository


Create a new repository


A repository contains all the files for your project, including the revision history.

  **Owner** **Repository name**

 **griesmayer** / **griesmayer_bank1** 

Great repository names are short and memorable. Need inspiration? How about **fictional-goggles**.

 **Public**
Anyone can see this repository. You choose who can commit.

Add .gitignore: **Java** | Add a license: **None** 

[Create repository](#)

rights

This repository Search Pull requests Issues Gist + -

griesmayer / griesmayer_bank1 1 Unwatch 2 Star 0 Fork 0

<> Code Issues 0 Pull requests 1 Projects 0 Wiki Pulse Graphs Settings 2

Options

Collaborators 3

Branches

Webhooks

Integrations & services

Deploy keys

Collaborators Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

hans@webmail.com 4 Add collaborator 5

repository

The screenshot shows a GitHub repository page for 'griesmayer / griesmayer'. A 'Choose a clone URL' dialog box is open, showing the 'HTTPS (recommended)' option selected. The repository name 'griesmayer / griesmayer' and the HTTPS clone URL 'https://github.com/griesmayer' are highlighted with yellow boxes. A green arrow points from the URL in the dialog to the terminal command below. Another green arrow points from the '.gitignore' file in the repository view to the file content box.

`.gitignore` →
`*.class`
`*.jar`

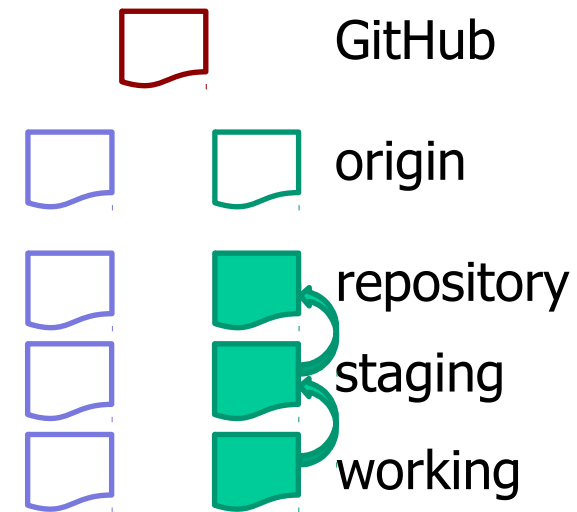
```
$ cd Code_GitHub  
$ git init  
$ git remote add origin https://github.com/griesm
```

local project

```
$ git remote
origin
$ git remote -v
origin github.com/bank.git (fetch)
origin github.com/bank.git (push)
```

```
▼ thomas
  > .git
  ▼ Bank
    > bin      Bank.java
    > src      BankAccount.java
```

```
$ git status
On branch master      Untracked files: Bank/
$ git add .
$ git commit -m "Bank and BankAccount"
```

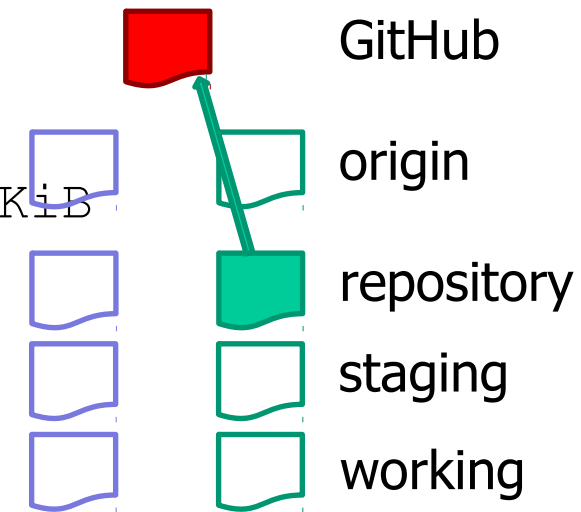




local project

```
$ git push -u origin master
Compressing objects: 100% (11/11)
Writing objects: 100% (20/20), 2.48 KiB
0f7485b..0ce6ca4  master -> master
```

Maybe (.gitignore)

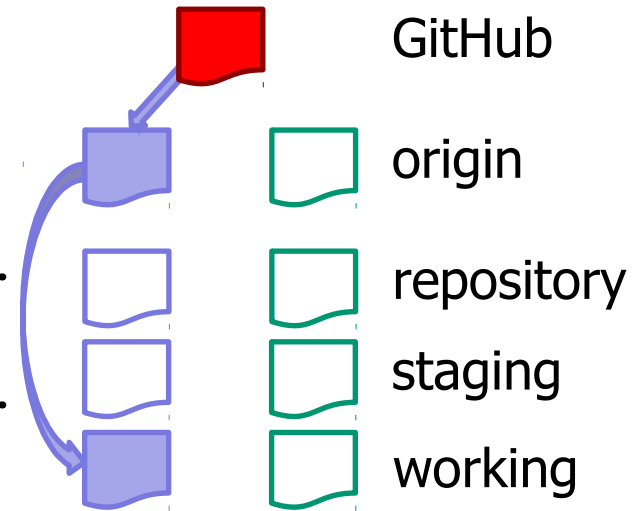
```
$ git fetch origin
$ git merge origin/master
```



 Bank	Bank and BankAccount	15 minutes ago
 .gitignore	Initial commit	a day ago

local project

```
$ mkdir susi
$ cd susi
$ git init
$ git remote add origin https://...
$ git fetch origin
remote: Counting objects: 23, done.
remote: Compressing objects: 100%.
Unpacking objects: 100% (23/23), done.
$ git merge origin/master
```



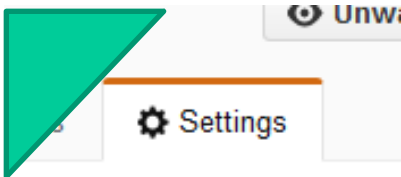
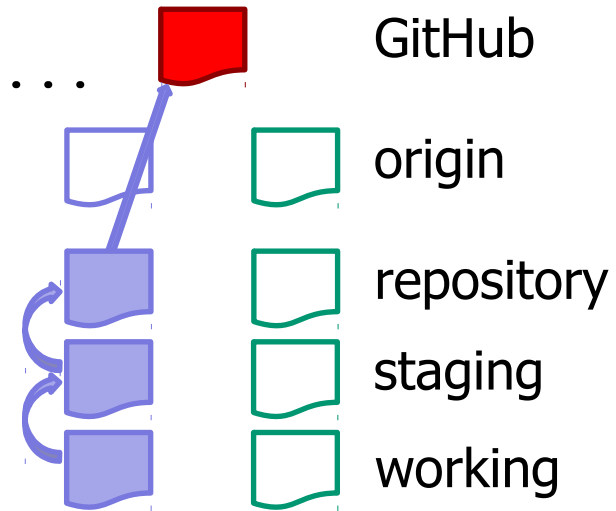
```
▼ susi
  > .git
  ▼ Bank
    > bin      Bank.java
    > src      BankAccount.java
```

local project

```
$ cd Bank/src/at/spengergasse/bank/...  
$ vi Bank.java
```

```
private ArrayList accounts;
```

```
$ git add .  
$ git commit -m "Bank ArrayList"
```



Collaborators Push access to the repository

Search by username, full name or email address

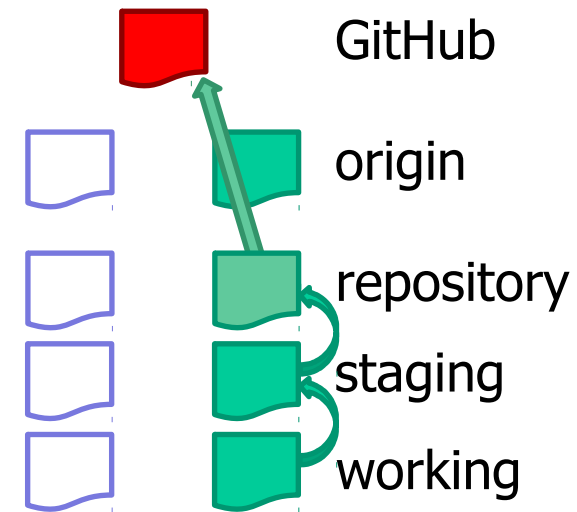

```
$ git push -u origin master
```

local project

```
$ cd Bank/src/at/spengergasse/...  
$ vi Bank.java
```

```
private HashMap accounts;
```

```
$ git add .  
$ git commit -m "Bank HashMap"  
$ git push -u origin master  
! [rejected] master -> master (fetch first)  
remote contains work that is not locally.
```



local project

```
$ git fetch origin
Unpacking objects: 100% (23/23), done
$ git merge origin/master
Bank.java CONFLICT (content)
```

```
$ vi Bank.java
<<<<<<< HEAD
    private HashMap accounts;
=====
    private ArrayList accounts;
>>>>>>> origin/master
```

```
    private ArrayList accounts;
```

```
$ git add .
$ git commit -m "Bank ArrayList"
$ git push -u origin master
```

