Git

- Verzovaci systém

Proc pouzitat Git

- sledování změn

- spolupráce v týmu

- vertvení

- zpětné vrácení změn

- Open-source

Klicorá slovicha

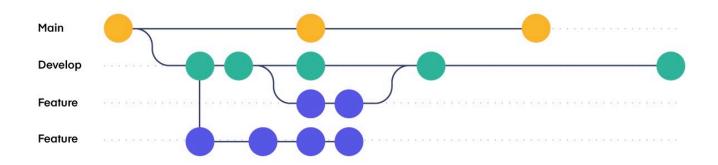


- Snímeli stavu projektu
 Slouží jako historie změn
 kazdý má jedinětné 10



- branch (veter)

- Slouzí pro oddělení výugje
- samostatný výrojový směr z počátku pouze 1 větev mostermain
- v týmovém výuji práce s více vetvemi běžná praxe





- lebonováním repozitáře se utvoří lohální Verze vzdálené branche

-ait status

-upise status repozitaire

— vybranoa branch

- Stav mezi lokální branch a vzdálenou branch

- stav lokálního projektu

marek\Documents\hodinagitu>git status On branch main
Your branch is up to date with 'origin/main'. nothing to commit, working tree clean

- bohusel git status ulasaje lokální informace - informace se vzdáleného serveru je třeba stáhnout respektive fetchnout

- Stahne informace o repozitairi - commity, soubory, zmèny

- nepromitne je!!!

- to znamená, že si o tom pouze stahne informace

- stehne informace a rovnou je promítne

C:\Users\marek\Documents\hodinagitu>git status Zadné změny On branch main Your branch is up to date with 'origin/main'. nothing to commit, working tree clean C:\Users\marek\Documents\hodinagitu>git fetch remote: Enumerating objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 3 (from 1)
Unpacking objects: 100% (3/3), 315 bytes | 35.00 KiB/s, done.
From gitlab.com:MarekHelis/hodinagitu Stahnutí zmen 194eb58..ed0c0cc main -> origin/main C:\Users\marek\Documents\hodinagitu>git status Zobrazen Zishanich dert On branch main Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded. (use "git pull" to update your local branch) nothing to commit, working tree clean C:\Users\marek\Documents\hodinagitu>git pull promitnuti dat do souboro Updating 194eb58..ed0c0cc Fast-forward test.txt | 2 +-1 file changed, 1 insertion(+), 1 deletion(-) C:\Users\marek\Documents\hodinagitu>git status On branch main Your branch is up to date with 'origin/main'. nothing to commit, working tree clean

-polud provedeme néjahé změny mužeme si jejich prehled upsat pomocí git status

```
C:\Users\marek\Documents\hodinagitu>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
    (use "git add/rm <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)

deleted: Pisemka.txt
modified: test.txt

Untracked files:
    (use "git add <file>..." to include in what will be committed)
    info.pub

no changes added to commit (use "git add" and/or "git commit -a")

Sha Zal jsem Souber Pisemka.txt

-upravil Souber test ttt

-pridal Souber info-pub
```

```
C:\Users\marek\Documents\hodinagitu>git status
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
(use "git restore <file>..." to discard changes in working directory)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
```

-Visechny zmėny jsou červené, protoże jsou unstaged rnamena, le nejsou upbrané pro utvoiené Commita - existryi due moznosti jak je upat pro vytroření commitu, respektive znich udělat Staged

-git add test txt

- upbere poure soubor test tot

-git add.
-pridá vsechny změny

```
C:\Users\marek\Documents\hodinagitu>git add .
   C:\Users\marek\Documents\hodinagitu>git status
   On branch main
   Your branch is up to date with 'origin/main'.
   Changes to be committed:
    (use "git restore --staged <file>..." to unstage)
          deleted: Pisemka.txt
          new file: info.pub
          modified: test.txt
- Zmèny jsou mní zeleně, prodože jsou
Wbrané pro commit
Vatuorit commit
 -git commit -m "apraiva/komentar"
  -vytvorí commit
   -parametr -m slouzi propridani komentaie/zpravy
```

```
C:\Users\marek\Documents\hodinagitu>git commit -m "Smazani Pisemky, zmena testu a pridani info"
[main 194eb58] Smazani Pisemky, zmena testu a pridani info
3 files changed, 1 insertion(+), 2 deletions(-)
delete mode 100644 Pisemka.txt
create mode 100644 info.pub

C:\Users\marek\Documents\hodinagitu>git status
On branch main

Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
```

-vidime jée nase bhálm branch je o 1 commitnapred pied vzdále nou

Zaslat změny na vzdálený server

-git push -zaste zmėny (commity) na vzdálený server

Zmèna na vzdéleném serveni

| H HodinaGitu △ | | | | ı |
|---|---------------------------------------|---------|-----------|----------------|
| % main ∨ hodinagitu / + ∨ | | History | Find file | Edit v Code v |
| Smazani Pisemky, zmena testu a pridani info Marek Helis authored 2 minutes ago | | | | |
| Name | Last commit | | | Last update |
| M4 README.md | Initial commit | | | 2 months ago |
| ⊶ info.pub | Smazani Pisemky, zmena testu a pridan | | | 35 minutes ago |
| ≜ test.txt | Update test.txt | | | 28 minutes ago |
| | | | | |





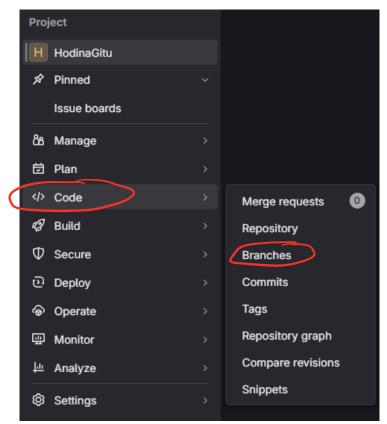
git Fetch - stannout informace (commity, branche, ...)

gitpull-stahnout a aplihouat změny (provybanou věter)

- -Změna v Souboru Stylecss
- -Změna v souborn Share.ess
- ·git commit -m "Styles changes"
- -smazání soubom oldess
- egit commit -m "Remove old styles"

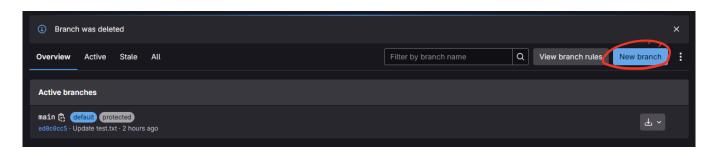
git push - nahrát změny na vzdálení server

Vytvoření nové branche



- Nejjedrodussim résent je pomoct gitabu - v zaloice Code jour Branches

- Hacitho Vew branch





| New branch | | | | |
|--|--|--|--|--|
| Branch name | | | | |
| alter | | | | |
| Create from | | | | |
| main | | | | |
| Existing branch name, tag, or commit SHA | | | | |
| Create branch Cancel | | | | |

-git branch -výpis dostupných branch

-nové informa ce je potreba fetchnout

-nasleane je potreba * main branch ybrat

C:\Use
branch
Switch

C:\Users\marek\Documents\hodinagitu>git branch
* main

C:\Users\marek\Documents\hodinagitu>git branch
* main

C:\Users\marek\Documents\hodinagitu>git checkout alter branch 'alter' set up to track 'origin/alter'. Switched to a new branch 'alter'

C:\Users\marek\Documents\hodinagitu>git branch

* alter
main

- Myni je nová branch v seznamu a je také vybrána

C:\Users\marek\Documents\hodinagitu>git status
On branch alter

Your branch is up to date with 'origin/alter'.

nothing to commit, working tree clean

Klonování repozitáre -pomod ssh blice

- git clone repossible

C:\Users\marek\Documents>git clone git@github.com:TurboEdmund/SPSUL.git
Cloning into 'SPSUL'...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvvV6TuJJhbpZisF/zLDA0zPMSvHdkr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

-url rishame naporhlad tahto

