

# Лабораторная работа 1

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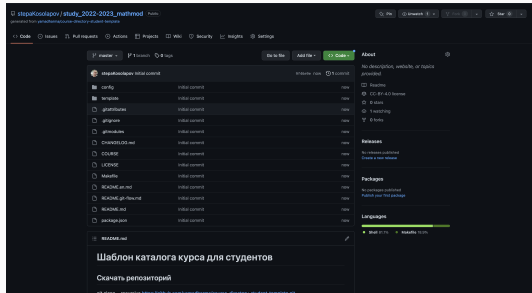
Ознакомиться с git и Markdown. Сформировать рабочее окружение.

## Создали структуру каталогов

```
→ work mkdir -p study/2022-2023/Математическое\ моделирование
→ work ls
study
→ work cd study
→ study cd 2022-2023
→ 2022-2023 ls
Математическое моделирование
→ 2022-2023 cd Математическое\ моделирование
→ Математическое моделирование pwd
/Users/stepa-kos/Desktop/work/study/2022-2023/Математическое моделирование
→ Математическое моделирование
```

## Создали репозиторий на github

- Математическое моделирование gh repo create study\_2022-2023\_mathmod --template=yaradharma/course-directory-student-template --public
- Created repository stepaKaslapov/study\_2022-2023\_mathmod on GitHub
- Математическое моделирование



# Склонировали себе репозиторий локально

```
+ Математическое моделирование git clone --recursive git@github.com:stepokasolapov/study_2022-2023_mathmod.git mathmod
Cloning into 'mathmod'...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (26/26), done.
remote: Total 27 (delta 1), reused 11 (delta 0), pack-reused 0
Receiving objects: 100% (27/27), 16.94 KiB | 8.47 MiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git) registered for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered for path 'template/report'
Cloning into '/Users/stepa-kos/Desktop/work/study/2022-2023/Математическое моделирование/mathmod/template/presentation'...
remote: Enumerating objects: 82, done.
remote: Counting objects: 100% (82/82), done.
remote: Compressing objects: 100% (57/57), done.
remote: Total 82 (delta 28), reused 77 (delta 23), pack-reused 0
Receiving objects: 100% (82/82), 92.90 KiB | 1.04 MiB/s, done.
Resolving deltas: 100% (28/28), done.
Cloning into '/Users/stepa-kos/Desktop/work/study/2022-2023/Математическое моделирование/mathmod/template/report'...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (70/70), done.
remote: Total 101 (delta 40), reused 88 (delta 27), pack-reused 0
Receiving objects: 100% (101/101), 327.25 KiB | 2.13 MiB/s, done.
Resolving deltas: 100% (40/40), done.
Submodule path 'template/presentation': checked out 'b1be3880e91f5809264cb755d316174540b753e'
Submodule path 'template/report': checked out '1d1b61dcac9c287a83917b82e3aef11a33b1e3b2'
+ Математическое моделирование
```

```
+ mathmod git:(master) ls
CHANGELOG.md    LICENSE          README.en.md    README.md    package.json
COURSE          Makefile        README.git-Flow.md  config      template
```

# Создали структуру каталогов через make

```
→ mathmod git:(master) make list
arch-pc    Архитектура ЭВМ
sciprogram intro Введение в научное программирование
infosec    Информационная безопасность
mathsec    Математические основы защиты информации и информационной безопасности
mathmod    Математическое моделирование
sciprogram Научное программирование
os-intro    Операционные системы
→ mathmod git:(master) make help
Usage:
make <target>

Targets:
list          List of courses
prepare       Generate directories structure

→ mathmod git:(master) vim Makefile
→ mathmod git:(master) make prepare
→ mathmod git:(master) * ls
CHANGELOG.md    LICENSE          README.en.md    README.md      labs          prepare      project-group
COURSE          Makefile          README.git-flow.md config          package.json   presentation  template
→ mathmod git:(master) * ls labs
README.md    README.ru.md lab1      lab2      lab3      lab4      lab5      lab6      lab7      lab8
→ mathmod git:(master) *
```

## Установили pandoc и mactex(texlive для OSX)

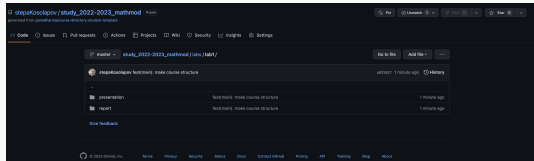
```
→ report git:(master) x ls
Makefile  bib      image    pandoc   report.md
→ report git:(master) x brew install pandoc
Running `brew update --auto-update`...
==> Auto-updated Homebrew!
Updated 1 tap (homebrew/core).

You have 20 outdated formulae and 2 outdated casks installed.
You can upgrade them with brew upgrade
or list them with brew outdated.

Warning: pandoc 3.1 is already installed and up-to-date.
To reinstall 3.1, run:
  brew reinstall pandoc
→ report git:(master) x brew mactex
Error: Unknown command: mactex
→ report git:(master) x brew install mactex
Warning: Cask 'mactex' is already installed.

To re-install mactex, run:
  brew reinstall --cask mactex
→ report git:(master) x █
```

# Запустили изменения в github



```
+ method git:(master) ✗ git add .
+ method git:(master) ✗ git commit -m 'feat(main): make course structure'
[master a83582f] feat(main): make course structure
217 files changed, 59287 insertions(+), 14 deletions(-)
create mode 100644 labs/README.md
create mode 100644 labs/README.ru.md
create mode 100644 labs/lab1/presentation/Makefile
create mode 100644 labs/lab1/presentation/image/kulyabov.jpg
create mode 100644 labs/lab1/presentation/presentation.md
create mode 100644 labs/lab1/report/Makefile
create mode 100644 labs/lab1/report/bib/cite.bib
create mode 100644 labs/lab1/report/image/placing_800_600_tech.jpg
create mode 100644 labs/lab1/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab1/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab1/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab1/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab1/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxmas/_init_.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxmas/core.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxmas/main.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxmas/pandocattributes.py
create mode 100644 labs/lab1/report/report.ad
create mode 100644 labs/lab2/presentation/Makefile
create mode 100644 labs/lab2/presentation/image/kulyabov.jpg
create mode 100644 labs/lab2/presentation/presentation.md
create mode 100644 labs/lab2/report/Makefile
create mode 100644 labs/lab2/report/bib/cite.bib
create mode 100644 labs/lab2/report/image/placing_800_600_tech.jpg
create mode 100644 labs/lab2/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab2/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab2/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab2/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab2/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxmas/_init_.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxmas/core.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxmas/main.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxmas/pandocattributes.py
create mode 100644 labs/lab2/report/report.ad
create mode 100644 labs/lab3/presentation/Makefile
create mode 100644 labs/lab3/presentation/image/kulyabov.jpg
create mode 100644 labs/lab3/presentation/presentation.md
create mode 100644 labs/lab3/report/Makefile
create mode 100644 labs/lab3/report/bib/cite.bib
create mode 100644 labs/lab3/report/image/placing_800_600_tech.jpg
create mode 100644 labs/lab3/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 labs/lab3/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 labs/lab3/report/pandoc/filters/pandoc_fignos.py
create mode 100755 labs/lab3/report/pandoc/filters/pandoc_secnos.py
create mode 100755 labs/lab3/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxmas/_init_.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxmas/core.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxmas/main.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxmas/pandocattributes.py
create mode 100644 labs/lab3/report/report.ad
create mode 100644 labs/lab4/presentation/Makefile
create mode 100644 labs/lab4/presentation/image/kulyabov.jpg
create mode 100644 labs/lab4/presentation/presentation.md
create mode 100644 labs/lab4/report/Makefile
```



В ходе данной лабораторной работы мы вспомнили как работать с git и markdown, создали рабочее пространство