

# Лабораторная работа №1

## Работа с git и язык Markdown

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# Цель работы

Подготовить рабочее пространство для лабораторной работы, Изучить систему контроля версий Git и язык разметки Markdown.

# Задание

Создать репозиторий курса, настроить каталог курса, сделать отчёт в формате Markdown, сохранить изменения на Github.

# Выполнение работы

## Установка необходимого ПО

```
PS C:\WINDOWS\system32> choco install pandoc
Chocolatey v2.2.2
Installing the following packages:
pandoc
By installing, you accept licenses for the packages.
Progress: Downloading pandoc 3.1.11.1... 100%

pandoc v3.1.11.1 [Approved]
pandoc package files install completed. Performing other installation steps.
The package pandoc wants to run 'chocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): y
```













Рис. 1: Установка pandoc

```
PS C:\WINDOWS\system32> choco install make
Chocolatey v2.2.2
Installing the following packages:
make
By installing, you accept licenses for the packages.
Progress: Downloading make 4.4.1... 100%

make v4.4.1 [Approved]
make package files install completed. Performing other installation steps.
ShimGen has successfully created a shim for make.exe
The install of make was successful.
Software installed to 'C:\ProgramData\chocolatey\lib\make'

Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

# Создание репозитория курса на основе шаблона

 edkrutova	Initial commit	2 minutes ago 
 config	Initial commit	2 minutes ago
 template	Initial commit	2 minutes ago
 .gitattributes	Initial commit	2 minutes ago
 .gitignore	Initial commit	2 minutes ago
 .gitmodules	Initial commit	2 minutes ago
 CHANGELOG.md	Initial commit	2 minutes ago
 COURSE	Initial commit	2 minutes ago
 LICENSE	Initial commit	2 minutes ago
 Makefile	Initial commit	2 minutes ago
 README.en.md	Initial commit	2 minutes ago

# Настройка каталога курса и отправка файлов на сервер

```
Kate@LAPTOP-6FQKKG49 MSYS ~  
# cd "C:\Users\Kate\work\study\2023-2024\mathmod"  
  
Kate@LAPTOP-6FQKKG49 MSYS /c/Users/Kate/work/study/2023-2024/mathmod  
# echo mathmod > COURSE  
  
Kate@LAPTOP-6FQKKG49 MSYS /c/Users/Kate/work/study/2023-2024/mathmod  
# make prepare  
  
Kate@LAPTOP-6FQKKG49 MSYS /c/Users/Kate/work/study/2023-2024/mathmod  
# |
```

Рис. 4: Создание необходимых каталогов

```
PS C:\Users\Kate\work\study\2023-2024\Математическое моделирование\mathmod> git add .  
warning: in the working copy of 'COURSE', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'labs/README.md', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'labs/README.ru.md', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'presentation/README.md', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'presentation/README.ru.md', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'project-group/README.md', LF will be replaced by CRLF the next time Git touches it  
warning: in the working copy of 'project-group/README.ru.md', LF will be replaced by CRLF the next time Git touches it  
PS C:\Users\Kate\work\study\2023-2024\Математическое моделирование\mathmod> git commit -am 'feat(main): make course structure'  
[master 8e48067] feat(main): make course structure  
217 files changed, 58156 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/placeimg_800_600_tech.jpg  
create mode 100644 labs/lab1/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl  
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_eqnos.py  
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_fignos.py
```

# Создание отчета в 3 форматах

```
PS C:\Users\Kate\work\study\2023-2024\Математическое моделирование\mathmod\labs\lab1\report> pandoc report.md -o report.docx --pdf-engine=lualatex -V mainfont="Times New Roman" -V sansfont="DejaVu Sans" -V monofont="DejaVu Sans Mono"
PS C:\Users\Kate\work\study\2023-2024\Математическое моделирование\mathmod\labs\lab1\report> pandoc report.md -o report.pdf --pdf-engine=lualatex -V mainfont="Times New Roman" -V sansfont="DejaVu Sans" -V monofont="DejaVu Sans Mono"
lualatex: security risk: running with elevated privileges
lualatex: major issue: So far, you have not checked for MiKTeX updates.
lualatex: security risk: running with elevated privileges
lualatex: major issue: So far, you have not checked for MiKTeX updates.
[WARNING] [makePDF] LaTeX Warning: Empty bibliography on input line 236.
PS C:\Users\Kate\work\study\2023-2024\Математическое моделирование\mathmod\labs\lab1\report>
```

Рис. 6: Конвертация файлов

Мы смогли настроить рабочее пространство для лабораторной работы. Изучили систему контроля версий Git и язык разметки Markdown, а также выполнили поставленные задачи.