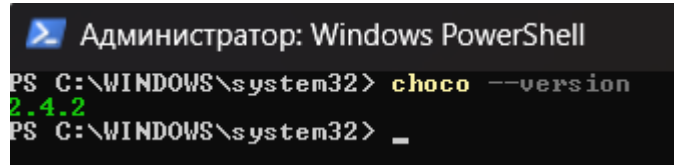


## Практическая работа №1.1

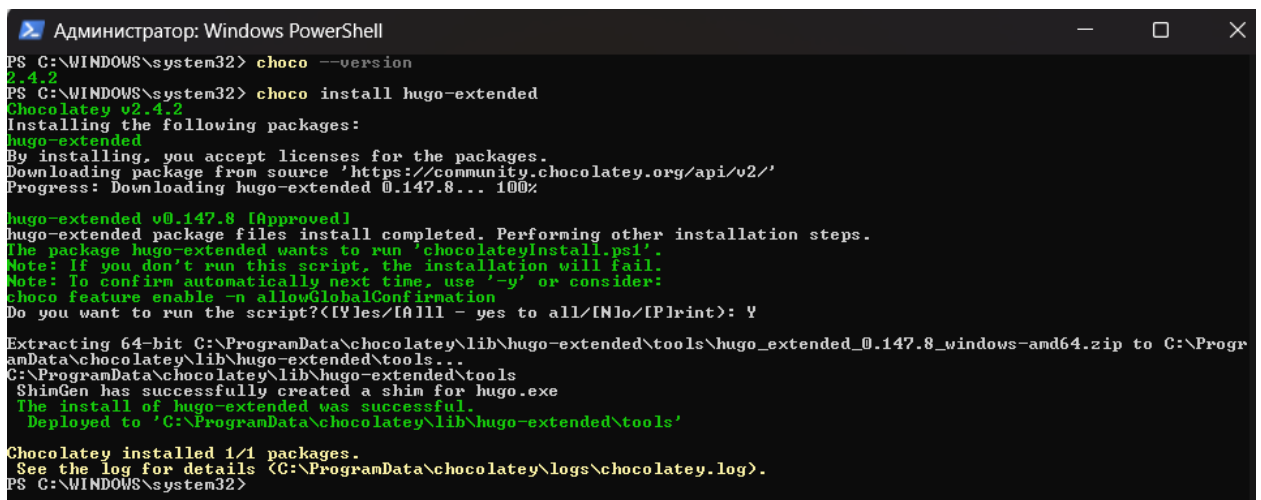
### Установка и развёртывание статического сайта с помощью Hugo Framework

#### 1. Установка менеджера Chocolatey



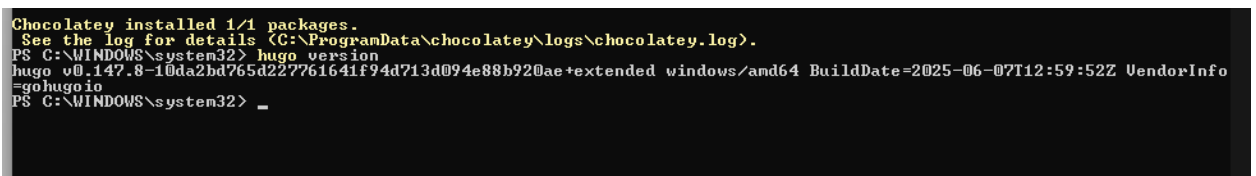
```
Администратор: Windows PowerShell
PS C:\WINDOWS\system32> choco --version
2.4.2
PS C:\WINDOWS\system32> _
```

#### 2. Установка полного дистрибутива Hugo с поддержкой SASS/SCSS



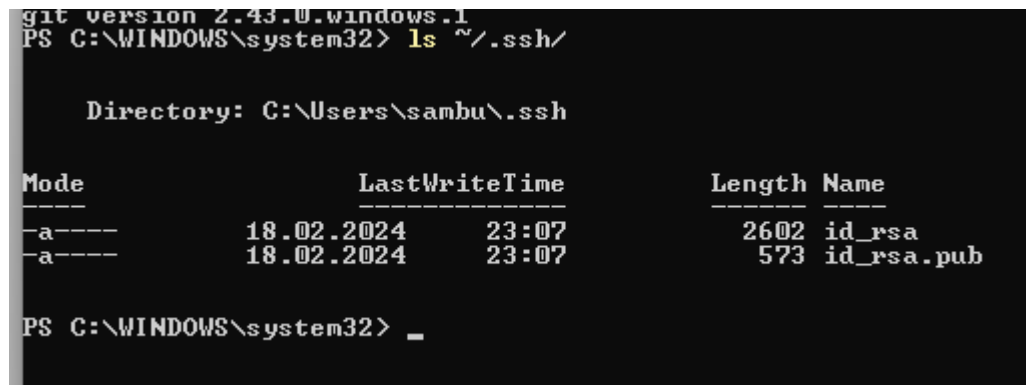
```
Администратор: Windows PowerShell
PS C:\WINDOWS\system32> choco --version
2.4.2
PS C:\WINDOWS\system32> choco install hugo-extended
Chocolatey v2.4.2
Installing the following packages:
hugo-extended
By installing, you accept licenses for the packages.
Downloading package from source 'https://community.chocolatey.org/api/v2/'
Progress: Downloading hugo-extended 0.147.8... 100%
hugo-extended v0.147.8 [Approved]
hugo-extended package files install completed. Performing other installation steps.
The package hugo-extended 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/N/A) - yes to all / N to all / P to print: Y
Extracting 64-bit C:\ProgramData\chocolatey\lib\hugo-extended\tools\hugo_extended-0.147.8-windows-and64.zip to C:\ProgramData\chocolatey\lib\hugo-extended\tools
ShimGen has successfully created a shim for hugo.exe
The install of hugo-extended was successful.
Deployed to 'C:\ProgramData\chocolatey\lib\hugo-extended\tools'
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

#### 3. Проверка версии Hugo



```
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32> hugo version
hugo v0.147.8-10da2bd765d227761641f94d713d094e88b920ae+extended windows/amd64 BuildDate=2025-06-07T12:59:52Z VendorInfo=gohugoio
PS C:\WINDOWS\system32> _
```

#### 4. Проверка наличия SSH-ключей



```
git version 2.43.0.Windows.1
PS C:\WINDOWS\system32> ls ~/.ssh/

Directory: C:\Users\sambu\.ssh

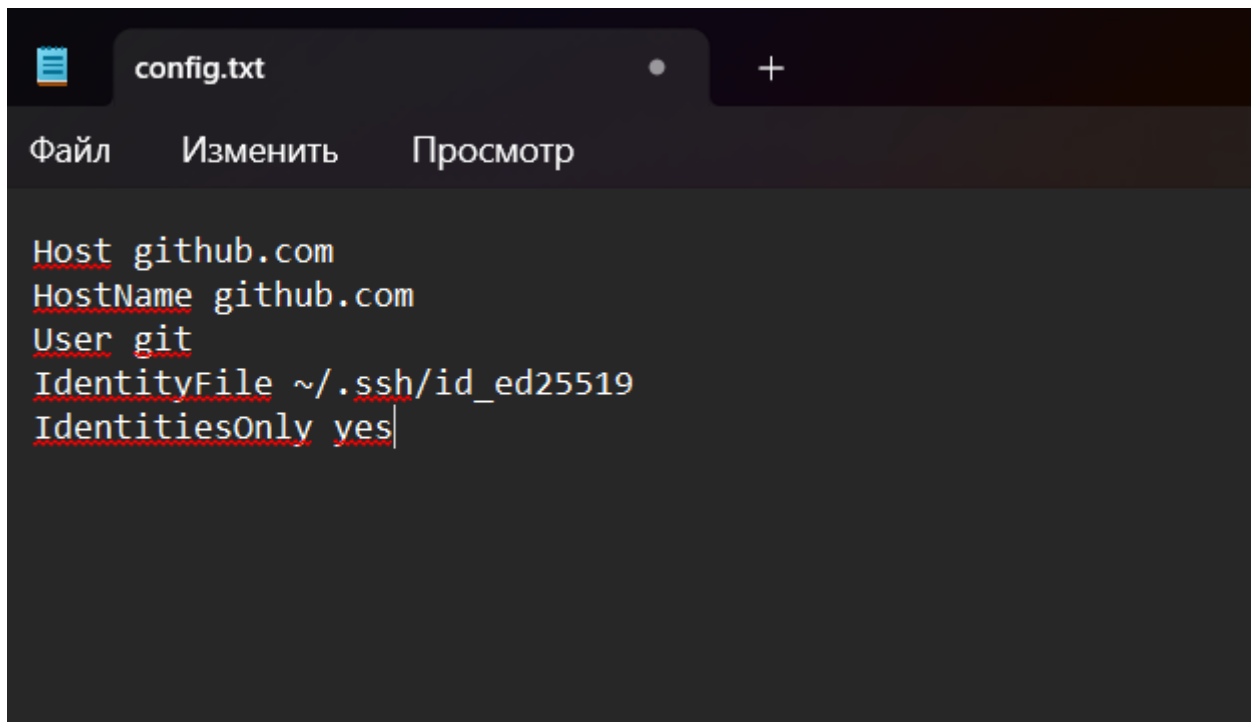
Mode                LastWriteTime         Length Name
----                -
-a----             18.02.2024    23:07         2602 id_rsa
-a----             18.02.2024    23:07          573 id_rsa.pub

PS C:\WINDOWS\system32> _
```

## 5. Генерация SSH-ключа

```
PS C:\WINDOWS\system32> ssh-keygen -t ed25519 -C "sambuev.2002@mail.ru"
Generating public/private ed25519 key pair.
Enter file in which to save the key (C:\Users\sambu\.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\sambu\.ssh/id_ed25519
Your public key has been saved in C:\Users\sambu\.ssh/id_ed25519.pub
The key's fingerprint is:
SHA256:dbCZw5fqdU8QzphYA2x8LSfRGtM9ecZFZ6euEQvdkg0 sambuev.2002@mail.ru
The key's randomart image is:
+--[ED25519 256]--+
|      .oE +OX!      |
|      .**OBB%      |
|      0.O=B0o      |
|      .*=+         |
|      S . + o..     |
|      . . + .      |
|      . .          |
+-----[SHA256]-----+
PS C:\WINDOWS\system32>
```

## 6. Настройка SSH-ключа в файле config



The image shows a text editor window titled 'config.txt'. The editor has a dark theme and a menu bar with 'Файл', 'Изменить', and 'Просмотр'. The content of the file is as follows:

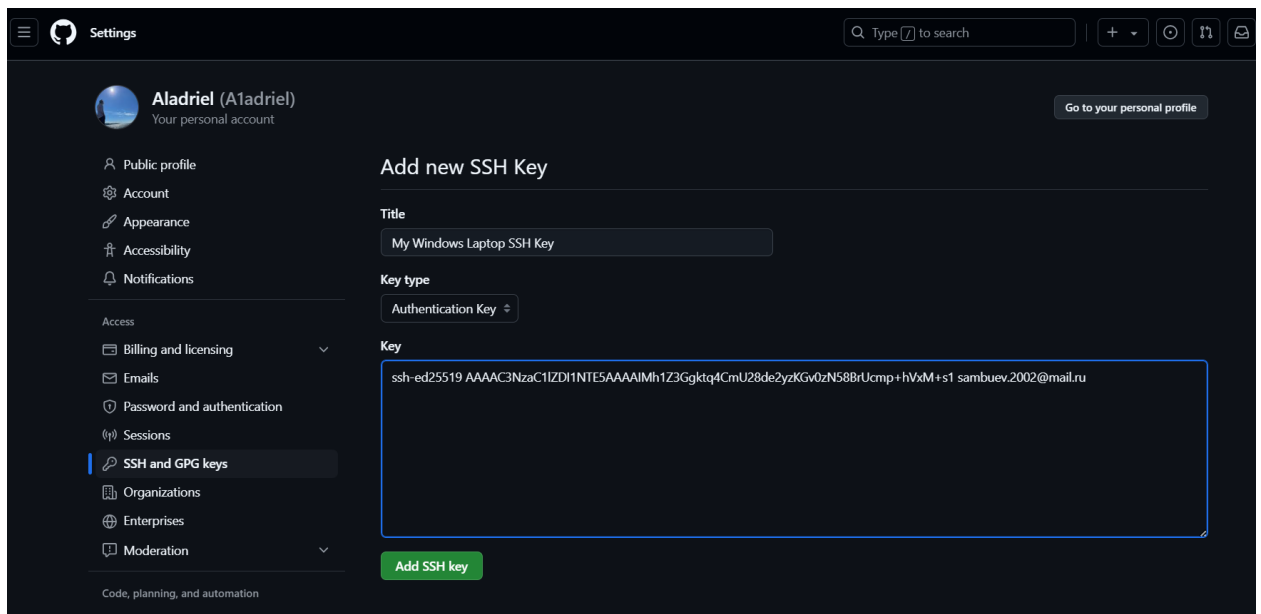
```
Host github.com
HostName github.com
User git
IdentityFile ~/.ssh/id_ed25519
IdentitiesOnly yes
```

## 7. Копирование SSH-ключа для GitHub

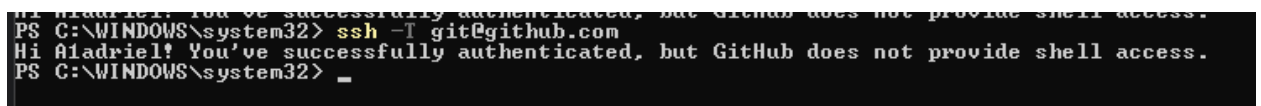


The image shows a Windows PowerShell terminal window titled 'Администратор: Windows PowerShell'. The command executed is:

```
PS C:\WINDOWS\system32> Get-Content ~/.ssh/id_ed25519.pub | ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIMh1Z3Ggktq4CmU28de2yzKGv0zn58BrUcmp+hUxM+sl sambuev.2002@mail.ru
```

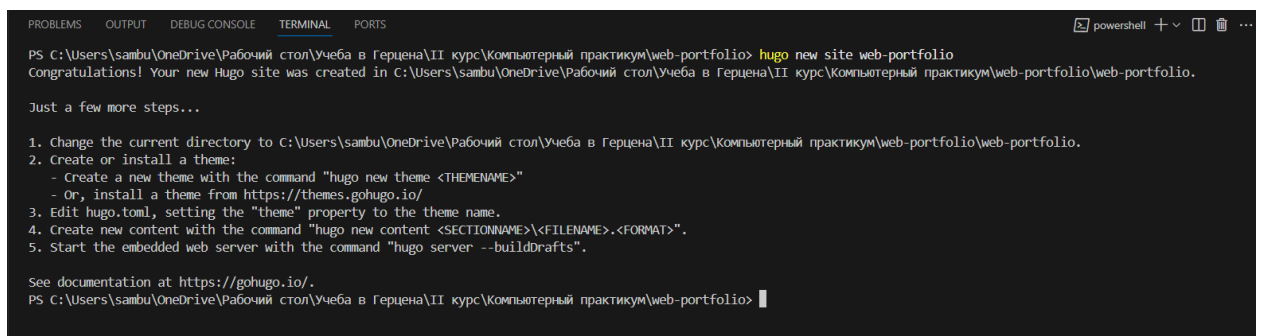


## 8. Проверка подключения



# Создание проекта сайта

## 1. Генерация начального проекта сайта



## 2. Создание локального репозитория

```
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
init
Initialized empty Git repository in C:/Users/sambu/OneDrive/ / /II /
/web-portfolio/web-portfolio/.git/
Warning: Your console font probably doesn't support Unicode. If you experience strange characters in the output, consid
er switching to a TrueType font such as Consolas!
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio>
```

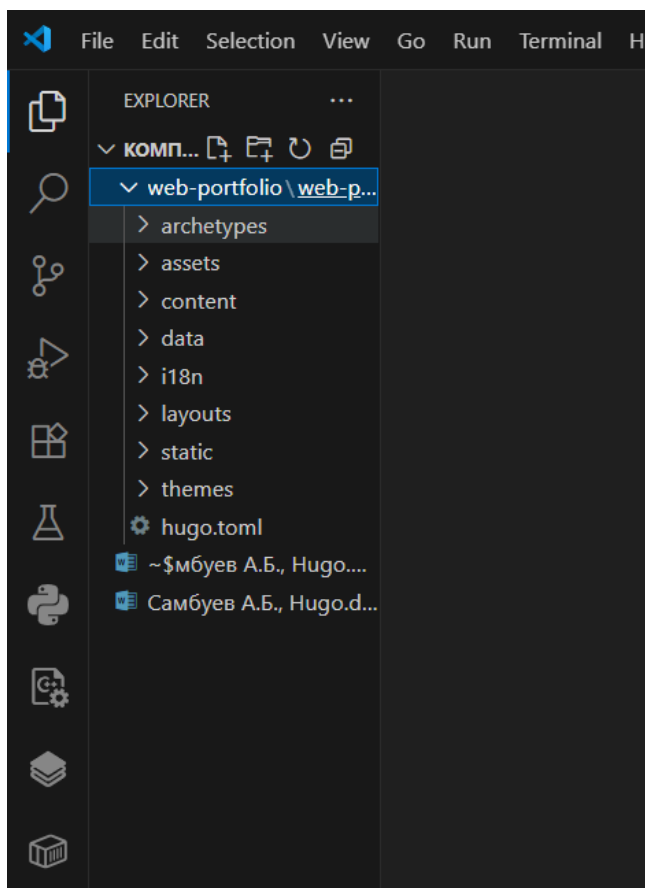
## 3. Привязка локального репозитория к удалённому

```
Администратор: Windows PowerShell
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
remote add origin git@github.com:Aladriel/web-portfolio.git
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
remote -v
origin git@github.com:Aladriel/web-portfolio.git (fetch)
origin git@github.com:Aladriel/web-portfolio.git (push)
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
branch
* main
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
push -u origin main
fatal: 'git@github.com:Aladriel/web-portfolio.git' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
push -u origin main
fatal: 'git@github.com:Aladriel/web-portfolio.git' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
remote set-url origin git@github.com:Aladriel/web-portfolio.git
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> git
push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 483 bytes | 483.00 KiB/s, done.
total 5 (delta 0), reused 0 (delta 0), pack-reused 0
to github.com:Aladriel/web-portfolio.git
* [new branch] main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\sambu\OneDrive\ \ \II \ \web-portfolio\web-portfolio> _
```

## 4. Добавление пустых файлов



## 5. Создание и отправка коммита

```
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
add all
fatal: pathspec 'all' did not match any files
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        assets/
        content/
        data/
        i18n/
        layouts/
        static/
        themes/

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
add --all
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> 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)
        new file:   assets/.gitkeep
        new file:   content/.gitkeep
        new file:   data/.gitkeep
        new file:   i18n/.gitkeep
        new file:   layouts/.gitkeep
        new file:   static/.gitkeep
        new file:   themes/.gitkeep

PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio>
```

```
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
commit -m "Initial project structure"
[main 8eb7075] Initial project structure
 7 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 assets/.gitkeep
 create mode 100644 content/.gitkeep
 create mode 100644 data/.gitkeep
 create mode 100644 i18n/.gitkeep
 create mode 100644 layouts/.gitkeep
 create mode 100644 static/.gitkeep
 create mode 100644 themes/.gitkeep
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
log -2
commit 8eb7075ff90abef18844113027097745198eac8 <HEAD -> main
Author: <sambuev.2002@mail.ru>
Date:   Tue Jun 24 02:42:57 2025 +0300

    Initial project structure

commit fea79ca545b7ddb2687405f01d246afcb0a129c3 <origin/main>
Author: <sambuev.2002@mail.ru>
Date:   Tue Jun 24 02:29:41 2025 +0300

    Initial commit
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio> git
push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (4/4), 426 bytes | 426.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
to github.com:Atadriel/web-portfolio.git
   fea79ca..8eb7075 main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\sambu\OneDrive\ \ \ \ \web-portfolio\web-portfolio>
```

The screenshot shows the GitHub web interface for a repository named 'web-portfolio' owned by 'Atadriel'. The repository is public and has 2 commits. The main branch is selected, showing a commit history table with 7 entries, all labeled 'Initial project structure'. The commit messages are truncated. The repository has 0 stars, 0 watchers, and 0 forks. The README section is partially visible at the bottom.

Commit	Message	Time
8eb7075	Initial project structure	14 minutes ago
fea79ca	Initial project structure	1 minute ago
...	...	...

## 6. Установка темы

The screenshot shows the Visual Studio Code interface with the Explorer view on the left displaying the project structure. The main editor shows the `_index.md` file in the `content` directory. The terminal at the bottom shows the output of the `hugo` command, including the build time and a summary table of site statistics.

**Project Structure (Explorer):**

- комп...
  - web-portfolio\web-p...
    - archetypes
    - assets
    - config\\_default
      - hugo.toml
      - languages.en.toml
      - markup.toml
      - menus.en.toml
      - params.toml
    - content
      - \_index.md
      - .gitkeep
      - data
      - i18n
      - layouts
      - public
      - static
    - themes
      - blowfish
      - .gitkeep
      - .gitmodules
      - .hugo\_build.lock

**Terminal Output:**

```
Total in 3528 ms
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio> hugo
Watching for changes in C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\{archetypes,assets,content,data,i18n,layouts,static,themes}
Watching for config changes in C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\config\_default, C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\themes\blowfish\config.toml, C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\themes\blowfish\config\_default
Start building sites ...
hugo v0.147.8-10da2bd765d227761641f94d713d094e88b920ae+extended windows/amd64 BuildDate=2025-06-07T12:59:52Z VendorInfo=gohugoio
```

	EN
Pages	14
Paginator pages	0
Non-page files	0
Static files	8
Processed images	0

## 7. Запуск сервера

The screenshot shows a terminal window with the output of the `hugo server` command. It displays the build time, environment, and the address where the web server is available.

```
PS C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio> hugo server
Watching for changes in C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\{archetypes,assets,content,data,i18n,layouts,static,themes}
Watching for config changes in C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\config\_default, C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\themes\blowfish\config.toml, C:\Users\sambu\OneDrive\Рабочий стол\Учеба в Герцена\II курс\Компьютерный практикум\web-portfolio\web-portfolio\themes\blowfish\config\_default
Start building sites ...
hugo v0.147.8-10da2bd765d227761641f94d713d094e88b920ae+extended windows/amd64 BuildDate=2025-06-07T12:59:52Z VendorInfo=gohugoio
```

	EN
Pages	14
Paginator pages	0
Non-page files	0
Static files	8
Processed images	0
Aliases	0
Cleaned	0

Built in 107 ms  
Environment: "development"  
Serving pages from disk  
Running in Fast Render Mode. For full rebuilds on change: hugo server --disableFastRender  
Web Server is available at //localhost:1313/ (bind address 127.0.0.1)  
Press Ctrl+C to stop

8. Итог:

