

Отчёт по 2 этапу реализации проекта

Операционные системы

Самсонова Мария Ильинична

Содержание

Цель работы	1
Задание	1
Реализация 2 этапа проекта	1
Вывод.....	16

Цель работы

Приобрести практические навыки размещения информации о себе и выкладывания постов на собственном сайте путем редактирования файлов в каталогах, создания новых файлов и каталогов и обновления через Терминал файлов.

Задание

Добавить к сайту данные о себе:

- Разместить фотографию владельца сайта.
- Разместить краткое описание владельца сайта (Biography).
- Добавить информацию об интересах (Interests).
- Добавить информацию об образовании (Education).
- Сделать пост по прошедшей неделе.
- Добавить пост на тему по выбору:
 - Управление версиями. Git.
 - Непрерывная интеграция и непрерывное развертывание (CI/CD).

Реализация 2 этапа проекта

1. Для начала запустим созданный сайт: (рис. [-@fig:001])

```

[misamsonova@fedora blog]$ hugo server
hugo: downloading modules ...
hugo: collected modules in 17168 ms
Start building sites ...
hugo v0.98.0-165d299cde259c8b801abadc6d3405a229e449f6+extended linux/amd64 BuildDate=2022-04-28T10:23:30Z VendorInfo=gohugoio

| EN
-----+-----
Pages | 53
Paginator pages | 0
Non-page files | 7
Static files | 9
Processed images | 16
Aliases | 11
Sitemaps | 1
Cleaned | 0

Built in 1312 ms
Watching for changes in /home/misamsonova/blog/{assets,content,data,static}
Watching for config changes in /home/misamsonova/blog/config/_default, /home/misamsonova/blog/go.mod
Environment: "development"
Serving pages from memory
Running in Fast Render Mode. For full rebuilds on change: hugo server --disableFastRender
Web Server is available at http://localhost:1313/ (bind address 127.0.0.1)
Press Ctrl+C to stop

```

Запуск работы сайта

{ #fig:001 width=70% }

2. Изменим информацию о себе, отыскав файл `_index.md` в каталоге `~/blog/content/authors/admin` и внеся в него основные сведения (образование, имя и фамилия, сайт университета, интересы и пр.): (рис. [-@fig:002]) и (рис. [-@fig:003])

Открыть ▾

+

_index.md
~/blog/content/authors/admin

```
1 ---
2 # Display name
3 title: Samsonova Maria
4
5 # Is this the primary user of the site?
6 superuser: true
7
8 # Role/position/tagline
9 role: Student of the direction of physical, mathematical and natural sciences
10
11 # Organizations/Affiliations to show in About widget
12 organizations:
13   - name: RUDN University
14     url: https://www.rudn.ru/
15
16 # Short bio (displayed in user profile at end of posts)
17 bio: My research interests include distributed robotics, mobile computing and programmable ma
18
19 # Interests to show in About widget
20 interests:
21   - Programming
22   - Mathematical analysis
23   - Discrete mathematics
24   - History
25   - Mathematical logic
26
27 # Education to show in About widget
28 education:
29   courses:
30     - course: 1 course
31       institution: RUDN Moscow
32       year: 2022
33
34 # Social/Academic Networking
35 # For available icons, see: https://wowchemy.com/docs/getting-started/page-builder/#icons
36 #   For an email link, use "fas" icon pack, "envelope" icon, and a link in the
37 #   form "mailto:your-email@example.com" or "/#contact" for contact widget.
38 social:
39   - icon: envelope
40     icon_pack: fas
41     link: '/#contact'
42   - icon: twitter
43     icon_pack: fab
44     link: https://twitter.com/GeorgeCushen
45   - icon: graduation-cap # Alternatively, use `google-scholar` icon from `ai` icon pack
```

Markdown ▾

Изменение информации о себе

{ #fig:002 width=70% }

```

29 courses:
30   - course: 1 course
31     institution: RUDN Moscow
32     year: 2022
33
34 # Social/Academic Networking
35 # For available icons, see: https://wowchemy.com/docs/getting-started/page-builder/#icons
36 # For an email link, use "fas" icon pack, "envelope" icon, and a link in the
37 # form "mailto:your-email@example.com" or "/#contact" for contact widget.
38 social:
39   - icon: envelope
40     icon_pack: fas
41     link: '/#contact'
42   - icon: twitter
43     icon_pack: fab
44     link: https://twitter.com/GeorgeCushen
45   - icon: graduation-cap # Alternatively, use `google-scholar` icon from `ai` icon pack
46     icon_pack: fas
47     link: https://scholar.google.co.uk/citations?user=sIwtMXoAAAAJ
48   - icon: github
49     icon_pack: fab
50     link: https://github.com/gcushen
51   - icon: linkedin
52     icon_pack: fab
53     link: https://www.linkedin.com/
54
55 # Link to a PDF of your resume/CV.
56 # To use: copy your resume to `static/uploads/resume.pdf`, enable `ai` icons in `params.toml`,
57 # and uncomment the lines below.
58 # - icon: cv
59 #   icon_pack: ai
60 #   link: uploads/resume.pdf
61
62 # Enter email to display Gravatar (if Gravatar enabled in Config)
63 email: ''
64
65 # Highlight the author in author lists? (true/false)
66 highlight_name: true
67 ---
68
69 Welcome to my website. my name is Maria. I was born on December 6, 2003 in the first science city of the world, the city of Obninsk, Russia.
70 At the moment I am a student of the RUDN University. If you are interested in programming, robotics or foreign languages, I will be glad to talk to
71 you.
72 {{< icon name="download" pack="fas" >}} Download my {{< staticref "uploads/demo_resume.pdf" "newtab" >}}resumé{{< /staticref >}}.

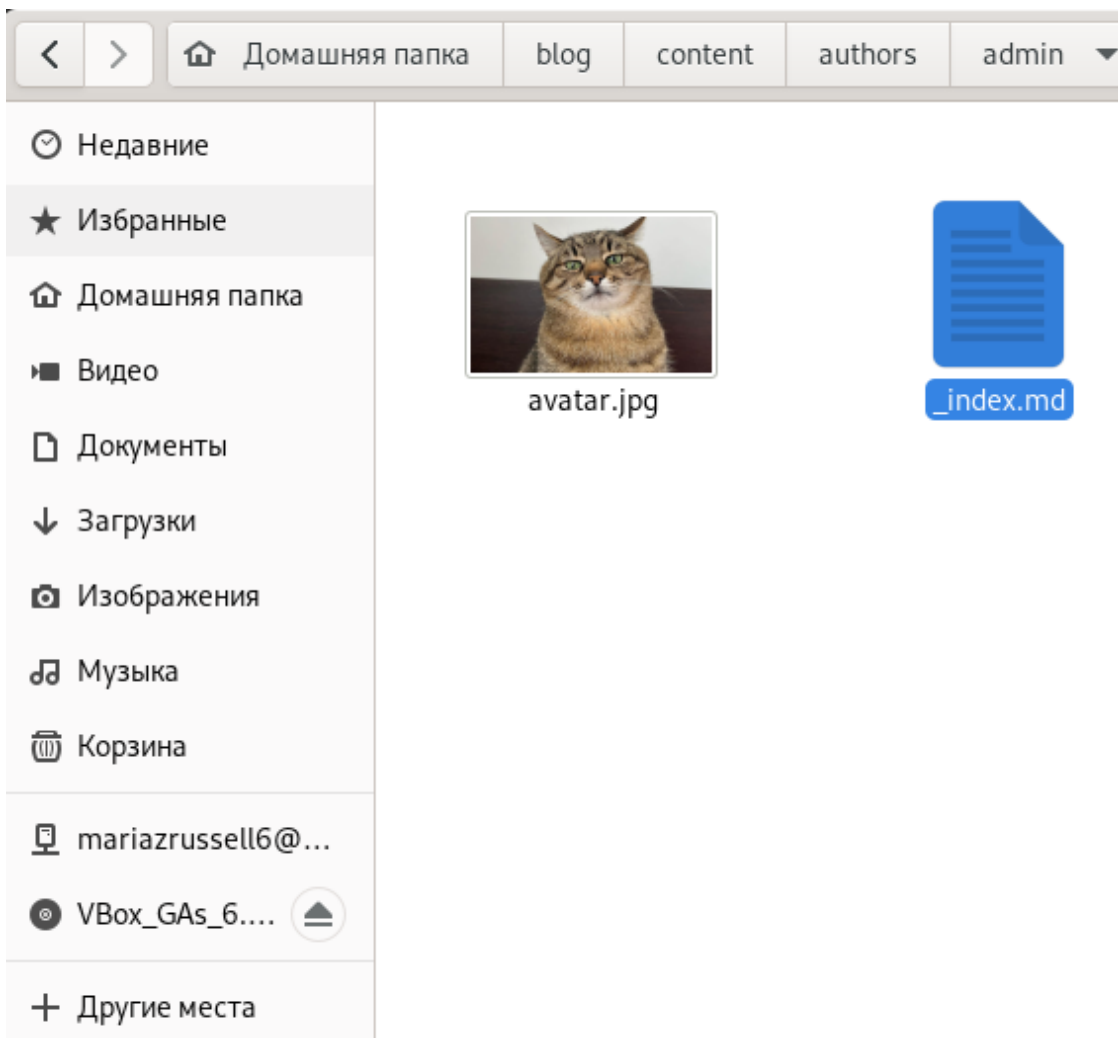
```

Markdown ▾ Ширина таблицы: 8 ▾ Стр 9, Стлб 1 ▾ BC

Изменение информации о себе

{ #fig:003 width=70% }

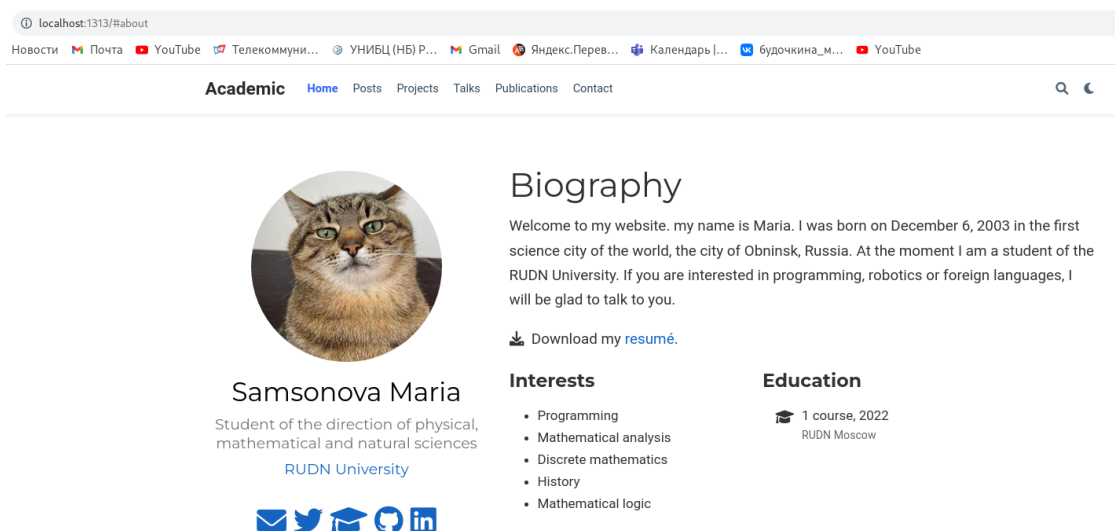
3. Меняем фотографию на странице, загрузив фотографию в каталог `~/blog/content/authors/admin` и переименовав в `avatar.jpg`: (рис. [-@fig:004])



Изменение фотографии на сайте

{ #fig:004 width=70% }

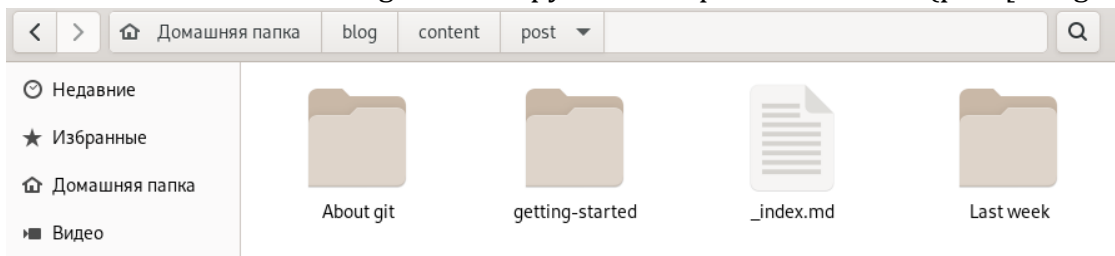
4. Открываем сайт, чтобы удостовериться, что изменения применены: (рис. [-@fig:005])



Изменение информации на сайте

{ #fig:005 width=70% }

- Далее мы переходим в каталог `~/blog/content/post`, создаём новые каталоги “my last week” и “About git” и копируем в них файл `_index.md`: (рис. [-@fig:006])



Создание новых папок

{ #fig:006 width=70% }

- Теперь переходим в каталог “my last week” и в файле `_index.md` добавляем информацию о прошедшей неделе. Также добавляем в данный каталог картинку: (рис. [-@fig:007])

```
Открыть  index.md  Сохранить x
~/blog/content/post/Last week

1 ---
2 title: My last week
3 subtitle: Hello 🍌 You want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!
4
5 # Summary for listings and search engines
6 summary: Hello 🍌 You want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!
7 # Link this post with a project
8 projects: []
9
10 # Date published
11 date: '2022-05-07T00:00:00Z'
12
13 # Date updated
14 lastmod: '2022-05-07T00:00:00Z'
15
16 # Is this an unpublished draft?
17 draft: false
18
19 # Show this page in the Featured widget?
20 featured: false
21
22 # Featured image
23 # Place an image named 'featured.jpg/png' in this page's folder and customize its options here.
24 image:
25   caption: 'Image credit: [**Unsplash**](https://unsplash.com/photos/Cpk0jOcXdUY)'
26   focal_point: ''
27   placement: 2
28   preview_only: false
29
30 authors:
31   - admin
32   - 吴恩达
33
34 tags:
35   - Academic
36   - 开源
37
38 categories:
39   - Demo
40   - 教程
41 ---
42
43 ## Overview
44
45 1. Last week I managed to launch my website thanks to the Hugo statistical website generator. And he's right in front of your eyes! ***Cool, isn't it?***
46 2. I also managed to do two laboratory work on the subject of "Operating systems": The basics of the interface of user interaction with the Unix system
   at the command line level and working with reports in Markdown.
47
```

Редактирование информации в файле

{ #fig:007 width=70% }

- После этого переходим в каталог “About git” и в файле _index.md добавляем информацию об управлении версиями git, также добавляем в данный каталог картинку: (рис. [-@fig:008]), (рис. [-@fig:009]) и (рис. [-@fig:010])

```
index.md
~/blog/content/post/About git

1 ---
2 title: Version control. Git.
3 subtitle: Hi! 🍌 Today I will tell you about the git version control system. Let's get started!
4
5 # Summary for listings and search engines
6 summary: Hi! 🍌 Today I will tell you about the git version control system. Let's get started!
7 # Link this post with a project
8 projects: []
9
10 # Date published
11 date: '2022-05-07T00:00:00Z'
12
13 # Date updated
14 lastmod: '2022-05-07T00:00:00Z'
15
16 # Is this an unpublished draft?
17 draft: false
18
19 # Show this page in the Featured widget?
20 featured: false
21
22 # Featured image
23 # Place an image named 'featured.jpg/png' in this page's folder and customize its options here.
24 image:
25   caption: 'Image credit: [**Unsplash**](https://unsplash.com/photos/Cpk0JocXdUY)'
26   focal_point: ''
27   placement: 2
28   preview_only: false
29
30 authors:
31   - admin
32   - 吴恩达
33
34 tags:
35   - Academic
36   - 开源
37
38 categories:
39   - Demo
40   - 教程
41 ---
42
43 # About the version control system
44
45 What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example, although in fact you can use version control for almost any type of file.
46
```

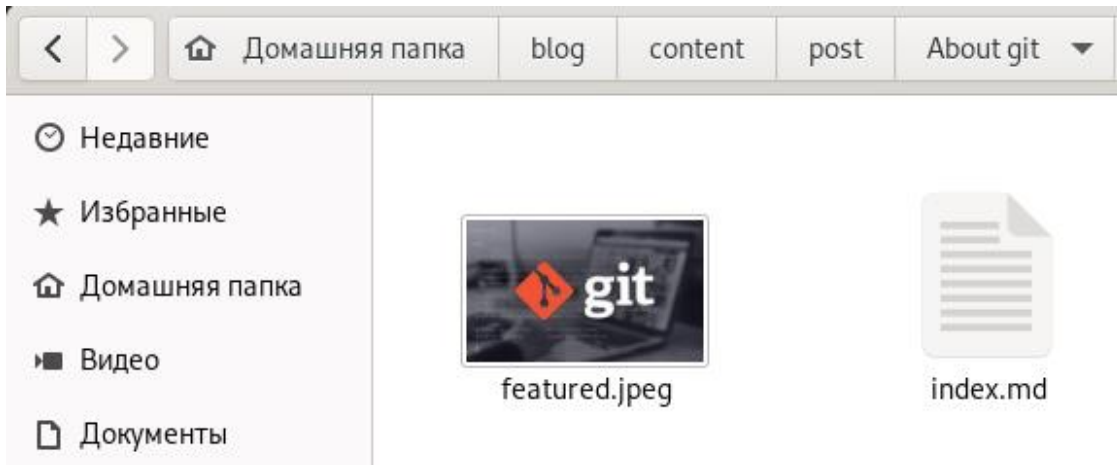
Редактирование информации в файле

{ #fig:008 width=70% }

```
43 # About the version control system
44
45 What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example, although in fact you can use version control for almost any type of file.
46
47 If you are a graphic or web designer and you want to save every version of an image or layout (most likely you will), the version control system (hereinafter referred to as SLE) – just what you need. It allows you to return files to the state they were in before the changes, return the project to its original state, see the changes, see who last changed something and caused the problem, who set the task and when, and much more. Using SLE also means in general that if you have broken something or lost files, you can safely fix everything. In addition to everything, you will get it all without any extra effort.
48
49 # Local version control systems
50 Many people use copying files to a separate directory as a version control method (perhaps even a directory with a time stamp, if they are smart enough). This approach is very common because of its simplicity, but it is incredibly prone to errors. You can easily forget which directory you are in and accidentally change the wrong file or copy the wrong files that you wanted.
51
52 In order to solve this problem, programmers have long ago developed local SLE with a simple database that stores records of all changes in files, thereby monitoring revisions.
53
54 One of the most popular SLE was the RCS system, which is still distributed with many computers today. RCS stores on disk sets of patches (differences between files) in a special format, using which it can recreate the state of each file at a given time.
55
56 # Centralized version control systems
57 The next major problem that people face is the need to interact with other developers. In order to deal with it, centralized version control systems (CSCs) were developed. Systems such as CVS, Subversion, and Perforce use a single server containing all versions of files, and a number of clients that receive files from this centralized repository. The use of CSCs has been the standard for many years.
58
59 This approach has many advantages, especially over local SLE. For example, all project developers know to a certain extent what each of them is doing. Administrators have full control over who can do what, and it is much easier to administer the CSCs than to operate local databases on each client.
60
61 Despite this, this approach also has serious disadvantages. The most obvious disadvantage is a single point of failure represented by a centralized server. If this server goes down for an hour, then during this time no one will be able to use version control to save the changes they are working on, and no one will be able to share these changes with other developers. If the hard disk on which the central database is stored is damaged, and there are no timely backups, you will lose everything – the entire history of the project, not counting single repository snapshots that have been saved on local developer machines. Local SLE suffer from the same problem: when the entire project history is stored in one place, you risk losing everything.
62
63 # Distributed version control systems
64 This is where distributed version control systems (RCS) come into play. In RSKV (such as Git, Mercurial, Bazaar or Darcs), clients do not just download a snapshot of all files (the state of files at a certain point in time) – they completely copy the repository. In this case, if one of the servers through which the developers exchanged data dies, any client repository can be copied to another server to continue working. Each copy of the repository is a complete backup of all data.
65
66 Moreover, many RSCs can simultaneously interact with several remote repositories, thanks to this you can work with different groups of people using different approaches at the same time within the same project. This allows you to apply several approaches to development at once, for example, hierarchical models, which is completely impossible in centralized systems.
```

Добавлении картинки

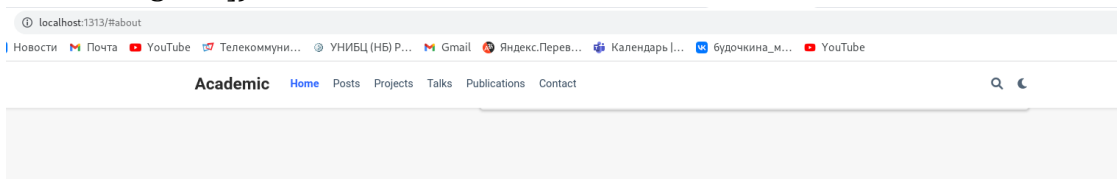
{ #fig:009 width=70% }



Добавлении картинки

{ #fig:010 width=70% }

8. Открываем сайт, чтобы удостовериться, что изменения применены: (рис. [-@fig:011])



Recent Posts

My last week

Hello 🐱 You want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!

Samsonova Maria, 吴恩达
May 7, 2022 · 3 min read · Demo, 教程



Version control. Git.

Hi! 🐱 Today I will tell you about the git version control system. Let's get started!

Samsonova Maria, 吴恩达
May 7, 2022 · 4 min read · Demo, 教程



Welcome to Wowchemy, the website builder for Hugo

Welcome 🐱 We know that first impressions are important, so we've populated your new site with some initial content to help you get familiar with everything in no time.

Samsonova Maria, 吴恩达
Dec 13, 2020 · 3 min read · Demo, 教程



Добавление постов на сайте

{ #fig:011 width=70% }

9. Также замечаем, что наши изменения фиксируются в Терминале: (рис. [-@fig:012])

```
Change detected, rebuilding site.
2022-05-07 16:54:34.613 +0300
Source changed "/home/misamsonova/blog/content/post/getting-started (копия)": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": CREATE
Source changed "/home/misamsonova/blog/content/post/Last week/index.md": CREATE
Total in 878 ms

Change detected, rebuilding site.
2022-05-07 16:57:08.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448.webp": WRITE
Total in 130 ms

Change detected, rebuilding site.
2022-05-07 16:58:01.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448.webp": RENAME
Total in 79 ms

Change detected, rebuilding site.
2022-05-07 16:58:26.634 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448 (1).jpg": CREATE
Total in 215 ms

Change detected, rebuilding site.
2022-05-07 16:58:36.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/file_269448 (1).jpg": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/featured1.jpg": CREATE
Total in 87 ms

Change detected, rebuilding site.
2022-05-07 16:58:37.613 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": RENAME
Total in 452 ms

Change detected, rebuilding site.
2022-05-07 16:58:42.114 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/featured1.jpg": RENAME
Source changed "/home/misamsonova/blog/content/post/Last week/featured.jpg": CREATE
Total in 303 ms

Change detected, rebuilding site.
2022-05-07 17:01:58.116 +0300
Source changed "/home/misamsonova/blog/content/post/Last week/index.md": CREATE
Total in 309 ms

Change detected, rebuilding site.
```

Вывод об изменениях сайта в Терминале

{ #fig:012 width=70% }

10. Теперь следующими командами мы обновляем файлы на github и запускаем сервер для просмотра другими пользователями сайта с уже изменённой информацией:(рис. [-@fig:013]),(рис. [-@fig:014]),(рис. [-@fig:015])

```

[misamsonova@fedora blog]$ git add .
[misamsonova@fedora blog]$ git commit -am 'Everything is new'
^[A[main 53d9249] Everything is new
7 files changed, 241 insertions(+), 20 deletions(-)
rewrite content/authors/admin/avatar.jpg (98%)
create mode 100644 content/post/About git/featured.jpeg
create mode 100644 content/post/About git/index.md
create mode 100644 content/post/Last week/featured.jpg
create mode 100644 content/post/Last week/index.md
[misamsonova@fedora blog]$ git push
Перечисление объектов: 21, готово.
Подсчет объектов: 100% (21/21), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (14/14), готово.
Запись объектов: 100% (14/14), 171.33 КиБ | 6.34 МиБ/с, готово.
Всего 14 (изменений 4), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
To https://github.com/misamsonova/blog.git
   0bcf1b0..53d9249  main -> main

```

Ввод команд для обновления файлов на github

{ #fig:013 width=70% }

```

^C[misamsonova@fedora blog]$ hugo
Start building sites ...
hugo v0.98.0-165d299cde259c8b801abadc6d3405a229e449f6+extended linux/amd64 BuildDate=2022-04-28T10:23:30Z VendorInfo=gohugoio

-----| EN
Pages | 55
Paginator pages | 0
Non-page files | 9
Static files | 9
Processed images | 19
Aliases | 11
Sitemaps | 1
Cleaned | 0

Total in 1353 ms
[misamsonova@fedora blog]$ cd public/
[misamsonova@fedora public]$ git add .
[misamsonova@fedora public]$ git commit -am 'Everything is new'
[main 2ddf607] Everything is new
39 files changed, 5238 insertions(+), 113 deletions(-)
rewrite authors/admin/avatar.jpg (98%)
create mode 100644 authors/admin/avatar_hu669edb64a2fa6a04680eb1267b076714_156571_270x270_fill_q75_lanczos_center.jpg
rewrite index.json (100%)
create mode 100644 post/about-git/featured.jpeg
create mode 100644 post/about-git/featured_hu44aaeb6db78b663ce8664da97ba699c8_5558_1200x2500_fit_q75_h2_lanczos.webp
create mode 100644 post/about-git/featured_hu44aaeb6db78b663ce8664da97ba699c8_5558_150x0_resize_q75_h2_lanczos.webp
create mode 100644 post/about-git/index.html
create mode 100644 post/last-week/featured.jpg
create mode 100644 post/last-week/featured_hu69fff2d5a7c8989295ba4849735939a5b_15796_1200x2500_fit_q75_h2_lanczos.webp
create mode 100644 post/last-week/featured_hu69fff2d5a7c8989295ba4849735939a5b_15796_150x0_resize_q75_h2_lanczos.webp
create mode 100644 post/last-week/index.html
[misamsonova@fedora public]$ git commit -am 'Everything is new'
На ветке main
Ваша ветка опережает «origin/main» на 1 коммит.
(используйте «git push», чтобы опубликовать ваши локальные коммиты)

ничего коммитить, нет изменений в рабочем каталоге
[misamsonova@fedora public]$ git push
Перечисление объектов: 119, готово.
Подсчет объектов: 100% (119/119), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (63/63), готово.
Запись объектов: 100% (66/66), 244.53 КиБ | 6.43 МиБ/с, готово.
Всего 66 (изменений 33), повторно использовано 0 (изменений 0), повторно использовано пакетов 0

```

Запуск сервера и ввод команд для обновления файлов на github

{ #fig:014 width=70% }

```

Подсчет объектов: 100% (119/119), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (63/63), готово.
Запись объектов: 100% (66/66), 244.53 КиБ | 6.43 МиБ/с, готово.
Всего 66 (изменений 33), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (33/33), completed with 25 local objects.
To https://github.com/misamsonova/misamsonova.github.io.git
  778fa7f..2ddf607  main -> main
[misamsonova@fedora public]$ cd ..
[misamsonova@fedora blog]$ git add .
[misamsonova@fedora blog]$ git commit -am 'Everything is new'
[main 076af18] Everything is new
 1 file changed, 1 insertion(+), 1 deletion(-)
[misamsonova@fedora blog]$ git push
Перечисление объектов: 3, готово.
Подсчет объектов: 100% (3/3), готово.
При сжатии изменений используется до 2 потоков
Сжатие объектов: 100% (2/2), готово.
Запись объектов: 100% (2/2), 914 байтов | 914.00 КиБ/с, готово.
Всего 2 (изменений 1), повторно использовано 0 (изменений 0), повторно использовано пакетов 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/misamsonova/blog.git
  53d9249..076af18  main -> main

```

Загрузка обновлённых файлов на github

{ #fig:015 width=70% }

11. Открываем github, чтобы удостовериться, что изменения применены: (рис. [-@fig:016])

misamsonova Everything is new			2ddf607 3 hours ago	🕒 3 commits
📁 admin	Add site			7 days ago
📁 authors/admin	Everything is new			3 hours ago
📁 categories	Everything is new			3 hours ago
📁 category	Everything is new			3 hours ago
📁 css	Add site			7 days ago
📁 en/js	Add site			7 days ago
📁 event	Everything is new			3 hours ago
📁 js	Add site			7 days ago
📁 media	Add site			7 days ago
📁 post	Everything is new			3 hours ago
📁 project	Everything is new			3 hours ago
📁 publication-type/1	Everything is new			3 hours ago
📁 publication	Everything is new			3 hours ago
📁 publication_types	Everything is new			3 hours ago
📁 slides	Add site			7 days ago
📁 tag	Everything is new			3 hours ago
📁 tags	Everything is new			3 hours ago

Обновлённые папки на github

{ #fig:016 width=70% }

12. Запускаем сайт misamsonova.github.io через терминал командой hugo и просматриваем посты, убеждаемся, что всё имеется:(рис. [-@fig:017]),(рис. [-@fig:018]), (рис. [-@fig:019]),(рис. [-@fig:020])

My last week

Hello 🐱 You want to know about what I've been doing this past week, don't you? Then I'll tell you about it right now!

Samsonova Maria, 吳恩達

May 7, 2022 · 3 min read · 📁 Demo, 教程



Overview

1. Last week I managed to launch my website thanks to the Hugo statistical website generator. And he's right in front of your eyes! **Cool, isn't it?**
2. I also managed to do two laboratory work on the subject of "Operating systems": The basics of the interface of user interaction with the Unix system at the command line level and working with reports in Markdown.

Просмотр поста "my last week" на сайте

{ #fig:017 width=70% }

Version control. Git.

Hi! 🙋 Today I will tell you about the git version control system.
Let's get started!

Samsonova Maria, 吳恩達

May 7, 2022 · 6 min read · 📖 Demo, 教程



About the version control system

What is a "version control system" and why is it important? A version control system is a system that records changes to a file or set of files over time and allows you to return later to a specific version. For file version control, this book will use the source code of the software as an example, although in fact you can use version control for almost any type of file.

If you are a graphic or web designer and you want to save every version of an image or layout (most likely you will), the version control system (hereinafter referred to as SLE) – just what you need. It allows you to return files to the state they were in before the changes, return the project to its original state, see the changes, see who last changed something and caused the problem, who set the task and when, and much more. Using SLE also means in general that if you have broken something or lost files, you can safely fix everything. In addition to everything, you will get it all without any extra effort.

Просмотр поста "Version control.Git." на сайте

{ #fig:017 width=70% }

Local version control systems

Many people use copying files to a separate directory as a version control method (perhaps even a directory with a time stamp, if they are smart enough). This approach is very common because of its simplicity, but it is incredibly prone to errors. You can easily forget which directory you are in and accidentally change the wrong file or copy the wrong files that you wanted.

In order to solve this problem, programmers have long ago developed local SLE with a simple database that stores records of all changes in files, thereby monitoring revisions.

One of the most popular SLE was the RCS system, which is still distributed with many computers today. RCS stores on disk sets of patches (differences between files) in a special format, using which it can recreate the state of each file at a given time.

Centralized version control systems

The next major problem that people face is the need to interact with other developers. In order to deal with it, centralized version control systems (CSCs) were developed. Systems such as CVS, Subversion, and Perforce use a single server containing all versions of files, and a number of clients that receive files from this centralized repository. The use of CSCS has been the standard for many years.

This approach has many advantages, especially over local SLE. For example, all project developers know to a certain extent what each of them is doing. Administrators have full control over who can do what, and it is much easier to administer the CSCS than to operate local databases on each client.

Despite this, this approach also has serious disadvantages. The most obvious disadvantage is a single point of failure represented by a centralized server. If this server goes down for an hour, then during this time no one will be able to use version control to save the changes they are working on, and no one will be able to share these changes with other developers. If the hard

Просмотр поста “Version control.Git.” на сайте

{ #fig:017 width=70% }

to administer the CSCS than to operate local databases on each client.

Despite this, this approach also has serious disadvantages. The most obvious disadvantage is a single point of failure represented by a centralized server. If this server goes down for an hour, then during this time no one will be able to use version control to save the changes they are working on, and no one will be able to share these changes with other developers. If the hard disk on which the central database is stored is damaged, and there are no timely backups, you will lose everything — the entire history of the project, not counting single repository snapshots that have been saved on local developer machines. Local SLE suffer from the same problem: when the entire project history is stored in one place, you risk losing everything.

Distributed version control systems

This is where distributed version control systems (RCS) come into play. In RSKV (such as Git, Mercurial, Bazaar or Darcs), clients do not just download a snapshot of all files (the state of files at a certain point in time) — they completely copy the repository. In this case, if one of the servers through which the developers exchanged data dies, any client repository can be copied to another server to continue working. Each copy of the repository is a complete backup of all data.

Moreover, many RSCs can simultaneously interact with several remote repositories, thanks to this you can work with different groups of people using different approaches at the same time within the same project. This allows you to apply several approaches to development at once, for example, hierarchical models, which is completely impossible in centralized systems.

Просмотр поста “Version control.Git.” на сайте

{ #fig:017 width=70% }

Вывод

В процессе реализации 2-ого этапа мы приобрели практические навыки размещения информации о себе и выкладывания постов на собственном сайте путем редактирования файлов в каталогах, создания новых файлов и каталогов и обновления через Терминал файлов.