

Лабораторная работа №4

git-flow

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Содержание

1	Цель работы	5
2	Задание	6
3	Выполнение лабораторной работы	7
3.1	Шаг 1	7
3.2	Шаг 2	8
3.3	Шаг 3	8
3.4	Шаг 4	8
3.5	Шаг 5	9
4	Выводы	10

Список иллюстраций

3.1	создание git-extended и первый коммит	7
3.2	Редактирование package.json	8
3.3	первый релиз 1.0.0	8
3.4	feature-branch и merge в develop	9
3.5	первый релиз 1.2.3	9

Список таблиц

1 Цель работы

Разобраться в работе git-flow, релизах и продвинутой работе с branch-ингом.

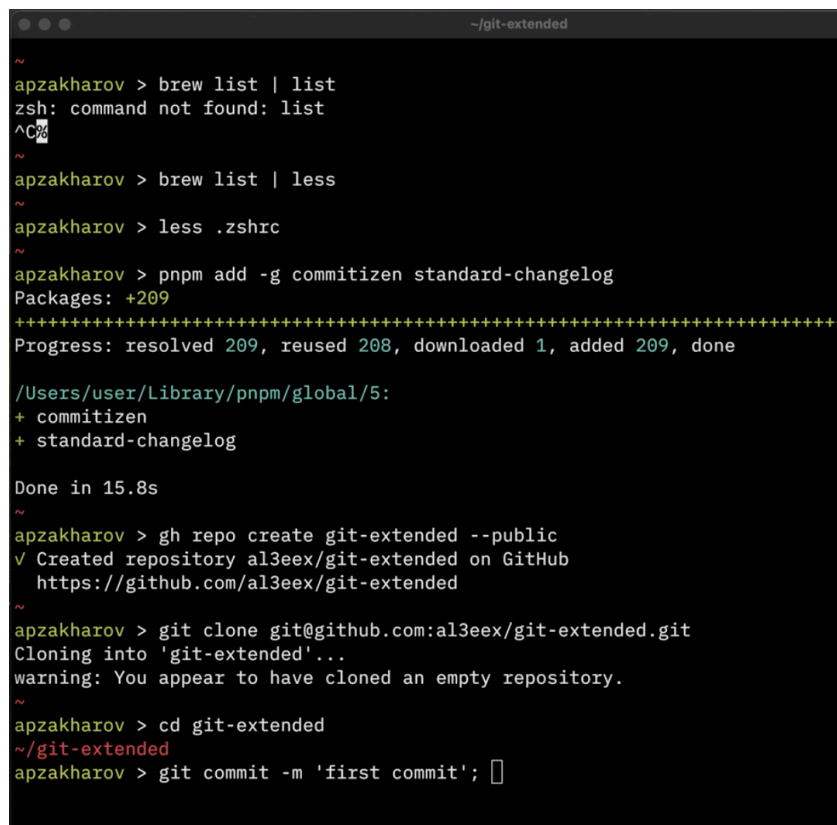
2 Задание

Выполнить работу для тестового репозитория, Преобразовать рабочий репозиторий в репозиторий с git-flow и conventional commits.

3 Выполнение лабораторной работы

3.1 Шаг 1

Продемонстрировал установку node, pnpm, git-flow, создал репозиторий git-extended и сделал первый коммит.



```
~
apzakharov > brew list | list
zsh: command not found: list
^C
~
apzakharov > brew list | less
~
apzakharov > less .zshrc
~
apzakharov > pnpm add -g commitizen standard-changelog
Packages: +209
Progress: resolved 209, reused 208, downloaded 1, added 209, done

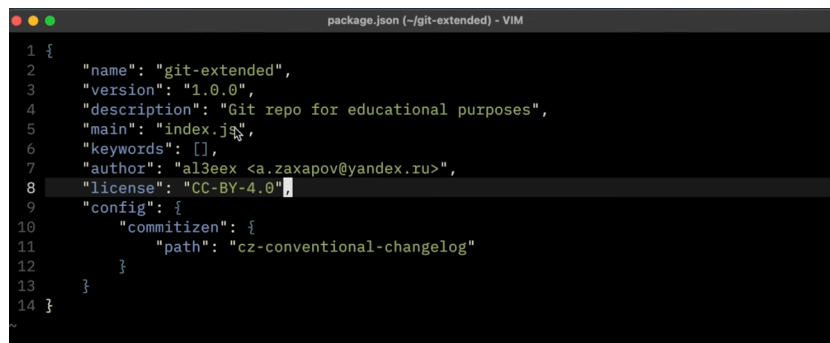
/Users/user/Library/pnpm/global/5:
+ commitizen
+ standard-changelog

Done in 15.8s
~
apzakharov > gh repo create git-extended --public
✓ Created repository al3eex/git-extended on GitHub
https://github.com/al3eex/git-extended
~
apzakharov > git clone git@github.com:al3eex/git-extended.git
Cloning into 'git-extended'...
warning: You appear to have cloned an empty repository.
~
apzakharov > cd git-extended
~/git-extended
apzakharov > git commit -m 'first commit';
```

Рис. 3.1: создание git-extended и первый коммит

3.2 Шаг 2

Редактирование package.json

A screenshot of a VIM editor window titled 'package.json (~/.git-extended) - VIM'. The editor shows a JSON file with the following content:

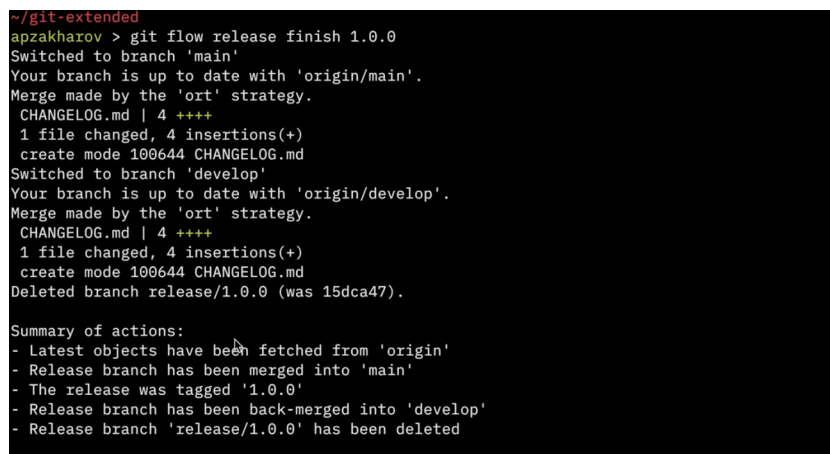
```
1 {
2   "name": "git-extended",
3   "version": "1.0.0",
4   "description": "Git repo for educational purposes",
5   "main": "index.js",
6   "keywords": [],
7   "author": "al3eex <a.zaxapov@yandex.ru>",
8   "license": "CC-BY-4.0",
9   "config": {
10     "commitizen": {
11       "path": "cz-conventional-changelog"
12     }
13   }
14 }
```

 The line containing the license is highlighted.

Рис. 3.2: Редактирование package.json

3.3 Шаг 3

Создал релиз версии 1.0.0 с помощью git flow.

A terminal window showing the output of the command 'git flow release finish 1.0.0'. The output is as follows:

```
~/git-extended
apzakharov > git flow release finish 1.0.0
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
Merge made by the 'ort' strategy.
CHANGELOG.md | 4 +++
1 file changed, 4 insertions(+)
create mode 100644 CHANGELOG.md
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Merge made by the 'ort' strategy.
CHANGELOG.md | 4 +++
1 file changed, 4 insertions(+)
create mode 100644 CHANGELOG.md
Deleted branch release/1.0.0 (was 15dca47).

Summary of actions:
- Latest objects have been fetched from 'origin'
- Release branch has been merged into 'main'
- The release was tagged '1.0.0'
- Release branch has been back-merged into 'develop'
- Release branch 'release/1.0.0' has been deleted
```

Рис. 3.3: первый релиз 1.0.0

3.4 Шаг 4

Создал feature-branch с помощью git flow и сделал merge в develop ветку.


```
~/git-extended
apzakharov > git flow feature start feature_branch
Switched to a new branch 'feature/feature_branch'

Summary of actions:
- A new branch 'feature/feature_branch' was created, based on 'develop'
- You are now on branch 'feature/feature_branch'

Now, start committing on your feature. When done, use:

    git flow feature finish feature_branch

~/git-extended
```

Рис. 3.4: feature-branch и merge в develop

3.5 Шаг 5

Создал релиз версии 1.2.3 с помощью `git flow`.

```
gh release create v1.2.3 -F CHANGELOG.md

~/git-extended
apzakharov > git push --all; git push --tags;
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 12 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 3.79 KiB | 1.89 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:al3eex/git-extended.git
   87731b7..6c8a323 develop -> develop
   66bed49..1252f3f main -> main
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 168 bytes | 168.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:al3eex/git-extended.git
 * [new tag]         1.2.3 -> 1.2.3
~/git-extended
apzakharov > gh release create v1.2.3 -F CHANGELOG.md
```

Рис. 3.5: первый релиз 1.2.3

4 Выводы

Во время выполнения лабораторной работы я углубил свои знания экосистемы git и научился продвинутому пользованию релизами и ветками разработки.