Структура научной презентации

Простейший шаблон

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01 января 1970

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Цель работы

Получение навыков правильной работы с репозиторием Гит

Задание

Выполнить работу для тестового репозитория Преобразовать рабочий репозиторий в репозиторий git-low and conventional commits

##Установка Gitflow

```
First Lit View View Terminal Tabs Help

Table Lit View View Terminal Tabs Help

LitarovmaxQTisarevMax: $ sudo dnf copr enable elegos/gitflow

[sudo] password for tsarevmax:

https://copr.fedorainfracloud.org/api_3/rpmrepo/elegos/gitflow/fedo 100% | 1.0 KiB/s | 652.0 B | 00m01s

Enabling a Copr repository. Please note that this repository is not part

of the main distribution, and quality may vary.

The Fedora Project does not exercise any power over the contents of

this repository beyond the rules outlined in the Copr FAQ at

«Inttps://docs.pagure.org/copr.copr/user_documentation.intml#what-i-can-build-in-copr>,

and packages are not held to any quality or security level.

Please do not file bug reports about these packages in Fedora

Bugzilla. In case of problems, contact the owner of this repository.

Is this ok [yM]: y

tsarevmax@TsarevMax: 5
```

устонавливаю Node.js

```
sareymax@TsareyMax:~$ sudo dnf install nodeis
Updating and loading repositories:
Repositories loaded.
Package
                                            Version
                                                                                Repository
                                  Arch
                                                                                                        Size
Installing:
                                  x86 64
                                            1:22.14.0-2.fc41
                                                                                updates
                                                                                                   149.5 KiB
Installing dependencies:
                                  x86 64
                                            1:22.14.0-2.fc41
                                                                                updates
                                                                                                    75.9 MiB
Installing weak dependencies:
                                  noarch
                                            1:22.14.0-2.fc41
                                                                                updates
                                                                                                    93.7 MiB
                                  x86_64
                                            1:22.14.0-2.fc41
                                                                                updates
                                                                                                    30.4 MiB
                                                                                                     9.3 MiB
                                  x86 64
                                            1:10.9.2-1.22.14.0.2.fc41
                                                                                updates
Transaction Summary:
Installing:
                    5 packages
Total size of inbound packages is 39 MiB. Need to download 39 MiB.
After this operation, 210 MiB extra will be used (install 210 MiB, remove 0 B).
Is this ok [v/N]: v
[1/5] nodeis-1:22.14.0-2.fc41.x86 64
                                                                    100% | 584.3 KiB/s |
                                                                                          46.7 KiB |
                                                                                                      00m00s
[2/5] nodejs-npm-1:10.9.2-1.22.14.0.2.fc41.x86_64
                                                                           1.8 MiB/s |
                                                                                          2.4 MiB |
                                                                    100%
                                                                                                      00m01s
[3/5] nodeis-docs-1:22.14.0-2.fc41.noarch
                                                                           1.9 MiB/s |
                                                                                          8.8 MiB |
                                                                                                      00m05s
                                                                    100% |
[4/5] nodejs-libs-1:22.14.0-2.fc41.x86_64
                                                32% [=====
                                                                            1.3 MiB/s |
                                                                                          6.2 MiB |
                                                                                                      00m09s
[5/5] nodeis-full-i18n-1:22.14.0-2.fc41.x86 64 61% [========
                                                                             1.2 MiB/s I
                                                                                           5.2 MiB |
                                                                                                     00m02s
[3/5] Total
                                                58% [=======
                                                                             3.9 MiB/s | 22.7 MiB | 00m04s
```

Устонавливаю рпрт

ckage	Arch	Version	Repository	Si
stalling: oppn	noarch	9.13.8-1.fc41	updates	15.5 M
ansaction Summary: nstalling: 1 package etal size of inbound packages is ter this operation, 16 MiB extra this ok [y/N]: y	a will be used (install 16 M			
/1] pnpm-0:9.13.0-1.fc41.noarch			100% 3.9 MiB/s 3.0	MiB 00m
/1) Total			100% 3.0 MiB/s 3.0	MiB 00m
[1/3] Verify package files			100% 41.0 B/s 1.0	
[2/3] Prepare transaction			100% 3.0 B/s 1.0	
/3] Installing pnpm-0:9.13.0-1.	fc41.noarch		100% 8.3 MiB/s 15.7	MiB

Настройка окружения

Настройка истурменнтов для общепринятых коммитов

Установка commitizen

```
Update available 9:13 0 - 18.6.1.

Changelog: https://github.com/pnpm/pnpm/releases/tag/v10.6.1

Enu *pops solf-update* to update.

Follow @pnpmjs for updates: https://x.com/pnpm/s

Follow @pnpmjs for updates: https://x.com/pnpm/s

Packages: :151

Formation and included and inc
```

Также устоновил стандартный генератор журналов изменений

pnpm add -g standard-changelog

создаю тестовый репозиторий и клонирую его

```
tsarevmaxeTsarevMax:-$ gh repo create --public git-extended

/ Created repository gravitai06/git-extended on GitHub
https://github.com/gravitai06/git-extended
tsarevmax@TsarevMax:-$ git clone --recursive git@github.com:gravitai06/git-extended.git
Cloning into 'git-extended'...
```

создал несколько файлов чтобы был не пустой репозиторий

закоментил и запушил

```
careymax@TsareyMax:~$ git clone --recursive git@github.com:gravitai@6/git-extended.git
Cloning into 'git-extended'...
warning: You appear to have cloned an empty repository.
 sarevmax@TsarevMax:~$ cd git-extended/
 sarevmax@TsarevMax:~/git-extended$ touch README.md && echo text > README.md
 sarevmax@TsarevMax:~/git-extended$ git add
 sareymax@TsareyMax:~/git-extended$ git commit -mm "first commit"
 error: pathspec 'first commit' did not match any file(s) known to git
 sareymax@TsareyMax:~/git-extended$ git commit -m "first commit"
 [main (root-commit) ffa217c] first commit
1 file changed, 1 insertion(+)
 create mode 100644 README.md
 sarevmax@TsarevMax:~/git-extended$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 865 bytes | 865.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:gravitai@6/git-extended.git
 * [new branch]
                    main -> main
 sarevmax@TsarevMax:~/git-extended$
```

Конфигурация для пакетов Node.js

pnpm init

```
File Edit View Terminal Tabs Help
 GNU nano 8.1
                                                                         package.ison
 "name": "git-extended",
 "version": "1.0.0".
 "description": "Git repo for educational purposes",
 "main": "index.is".
 "repositoty": "git@github.com:gravitai06/git-extended.git",
 "author": "Tsarev Max floozy06@mail.ru",
 "license": "CC-BY-4.0",
   "commitizen": {
     "path": "cz-conventional-changelog"
```

```
tsarevmax@TsarevMax:~/git-extended$ git checkout -b develop
Switched to a new branch 'develop'
tsarevmax@TsarevMax:~/git-extended$ git push -u origin develop
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote: https://github.com/gravitai06/git-extended/pull/new/develop
remote:
To github.com:gravitai06/git-extended.git
* [new branch] develop -> develop
branch 'develop' set up to track 'origin/develop'.
tsarevmax@TsarevMax:~/git-extended$
```

сделал коммит и запушил

```
sarevmax@TsarevMax:~/git-extended$ git add .
sarevmax@TsarevMax:~/git-extended$ git cz
cz-cli@4.3.1, cz-conventional-changelog@3.3.0
 Select the type of change that you're committing: docs: Documentation only changes
 What is the scope of this change (e.g. component or file name): (press enter to skip)
 Write a short, imperative tense description of the change (max 94 chars):
 Provide a longer description of the change: (press enter to skip)
 Are there any breaking changes? No
 Does this change affect any open issues? No
[develop 4315f73] docs: improve information context
1 file changed, 14 insertions(+)
create mode 100644 package.ison
sarevmax@TsarevMax:~/git-extended$ git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.15 KiB | 1.15 MiB/s, done
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:gravitai06/git-extended.git
  ffa217c..4315f73 develop -> develop
 sarevmax@TsarevMax:~/git-extended$
```

Инициализируем git-flow

проверяю ветку и загружаю в репозиторий

```
File Edit View Terminal Tabs Help
 sarevmax@TsarevMax:~/git-extended$ git flow init
Which branch should be used for bringing forth production releases?

    develop

   - main
Branch name for production releases: [main]
Which branch should be used for integration of the "next release"?

    develop

Branch name for "next release" development: [develop]
How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] v
Hooks and filters directory? [/home/tsarevmax/git-extended/.git/hooks]
 sarevmax@TsarevMax:~/git-extended$ git branch
  main
  sarevmax@TsarevMax:~/git-extended$ git push --all
Everything up-to-date
 sarevmax@TsarevMax:~/git-extended$ git branch --set-upstream-to=origin/develop develop
```

Создание релиза

Начал релиз

```
sarevmax@TsarevMax:~/git-extended$ git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'
Summary of actions:
 A new branch 'release/1.0.0' was created, based on 'develop'
 You are now on branch 'release/1.0.0'
Follow-up actions:
  Bump the version number now!
  Start committing last-minute fixes in preparing your release
  When done, run:
    git flow release finish '1.0.0'
 sarevmax@TsarevMax:~/git-extended$
```

создал журнал изменений и добавил в журнал

```
Terminal - tsarevmax@TsarevMax:~/git-extended
File Edit View Terminal Tabs Help
sarevmax@TsarevMax:~/git-extended$ standard-changelog --first-release
 created CHANGELOG.md
 output changes to CHANGELOG.md
sarevmax@TsarevMax:~/git-extended$ git add
 sarevmax@TsarevMax:~/git-extended$ git cz
cz-cli@4.3.1. cz-conventional-changelog@3.3.0
 Select the type of change that you're committing: chore: Other changes that don't modify src or test files
 What is the scope of this change (e.g. component or file name): (press enter to skip) site
 Write a short, imperative tense description of the change (max 87 chars):
 Provide a longer description of the change: (press enter to skip)
 Are there any breaking changes? No
 Does this change affect any open issues? No
[release/1.0.0 24af0cd] chore(site): add changelog
1 file changed, 4 insertions(+)
create mode 100644 CHANGELOG.md
 sarevmax@TsarevMax:~/git-extended$
```

Завершил релиз

```
sarevmax@TsarevMax:~/git-extended$ 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 ++++
package.ison | 14 +++++++++++
2 files changed, 18 insertions(+)
 create mode 100644 CHANGELOG.md
create mode 100644 package, ison
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
  (use "git push" to publish your local commits)
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 24af0cd).
Summary of actions:
 Release branch 'release/1.0.0' has been merged into 'main'
 The release was tagged 'v1.0.0'
 Release tag 'v1.0.0' has been back-merged into 'develop'
 Release branch 'release/1.0.0' has been locally deleted
  You are now on branch 'develop'
```

отправляю все в репозиторий

```
sarevmax@TsarevMax:~/git-extended$ git push --all
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (5/5), 2.66 KiB | 1.33 MiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:gravitai06/git-extended.git
  4315f73..135b8e4 develop -> develop
  ffa217c 9f18829 main -> main
 sarevmax@TsarevMax:~/git-extended$ git push tags
fatal: 'tags' 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.
sarevmax@TsarevMax:~/git-extended$ git push --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 160 bytes | 160.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:gravitai06/git-extended.git
  [new tag]
                    v1 0 0 -> v1 0 0
sarevmax@TsarevMax:~/git-extended$
```

создал релиз на гитхабе

```
arevmax@TsarevMax:~/git-extended$ gh release create v1.0.0 -F CHANGELOG.md
https://github.com/gravitai06/git-extended/releases/tag/v1.0.0
 sarevmax@TsarevMax:~/git-extended$ 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
 sarevmax@TsarevMax:~/git-extended$ git flow feature finish feature_branch
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Already up to date.
Deleted branch feature/feature branch (was 135b8e4).
Summary of actions:
 The feature branch 'feature/feature branch' was merged into 'develop'
 Feature branch 'feature/feature branch' has been locally deleted
  You are now on branch 'develop'
 sarevmax@TsarevMax:~/git-extended$
```

Работа с ветками _{20/24}

Начинаю релиз

```
tsarevmax@TsarevMax:~/git-extended$ git flow release start 1.2.3
Switched to a new branch 'release/1.2.3'
Summary of actions:
 A new branch 'release/1.2.3' was created, based on 'develop'
 You are now on branch 'release/1.2.3'
Follow-up actions:
  Bump the version number now!
  Start committing last-minute fixes in preparing your release
  When done, run:
     git flow release finish '1.2.3'
```

Создал журнал изменений и добавил туда

и в конце завершаю релиз

```
arevmax@TsarevMax;~/git-extended$ nano package.ison
 sarevmax@TsarevMax:~/git-extended$ standard-changelog
 output changes to CHANGELOG.md
 sarevmax@TsarevMax:~/git-extended$ git add .
 arevmax@TsarevMax:~/git-extended$ git cz
cz-cli@4.3.1. cz-conventional-changelog@3.3.0
 Select the type of change that you're committing: chore: Other changes that don't modify are or test files
 What is the scope of this change (e.g. component or file name): (press enter to skip) site
 Write a short, imperative tense description of the change (max 87 chars):
 Provide a longer description of the change: (press enter to skip)
 Are there any breaking changes? No
 Does this change affect any open issues? No
[release/1.2.3 99074cb] chore(site): update changelog
2 files changed, 5 insertions(+), 1 deletion(-)
 sarevmax@TsarevMax:~/git-extended$ git flow release finish 1.2.3
witched to branch 'main'
our branch is up to date with 'origin/main'.
Merge made by the 'ort' strategy.
CHANGELOG.md | 4 ++++
package.ison | 2 +
2 files changed, 5 insertions(+), 1 deletion(-)
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
 (use "git push" to publish your local commits)
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Merge made by the 'ort' strategy.
CHANGELOG md | 4 ++++
nackage ison | 2 +
2 files changed, 5 insertions(+), 1 deletion(-)
Deleted branch release/1.2.3 (was 99074ch).
ummary of actions
 Release branch 'release/1.2.3' has been merged into 'main'
```

отправляю измения в репозиторий и создаю релиз

```
Terminal - tsarevmax@TsarevMax:~/git-extended
File Edit View Terminal Tabs Help
 sarevmax@TsarevMax:~/qit-extended$ qit push --all
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 2.78 KiB | 2.78 MiB/s, done.
Total 6 (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:gravitai06/git-extended.git
  135b8e4..36af71d develop -> develop
  9f18829..3022683 main -> main
 * [new branch] feature/feature branch -> feature/feature branch
 sarevmax@TsarevMax:~/git-extended$ git push --tags
Enumerating objects: 1. done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 158 bytes | 158.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:gravitai06/git-extended.git
 * [new tag] v1.2.3 -> v1.2.3
 sarevmax@TsarevMax:~/git-extended$ gh release create v1.2.3 -F CHANGELOG.md
https://github.com/gravitai06/git-extended/releases/tag/v1.2.3
 sarevmax@TsarevMax:~/git-extended$
```



я получил навыки правильной работы с репозиториями git.