

Git

1. Введение

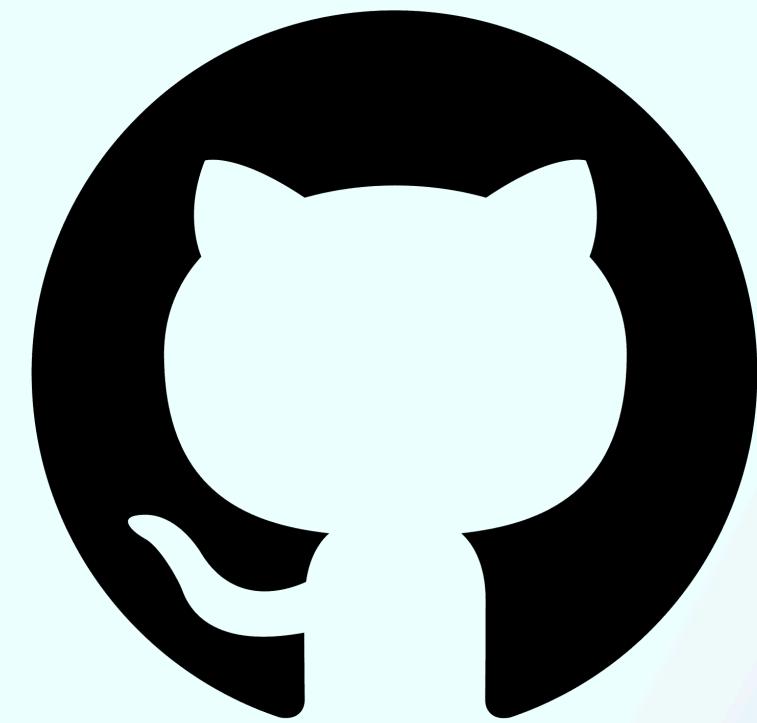


Что такое Git?

- Git - это бесплатная распределенная система контроля версий
- Git удобен для работы над одним проектом в команде разработчиков



Сервисы



GitHub



GitLab



Bitbucket

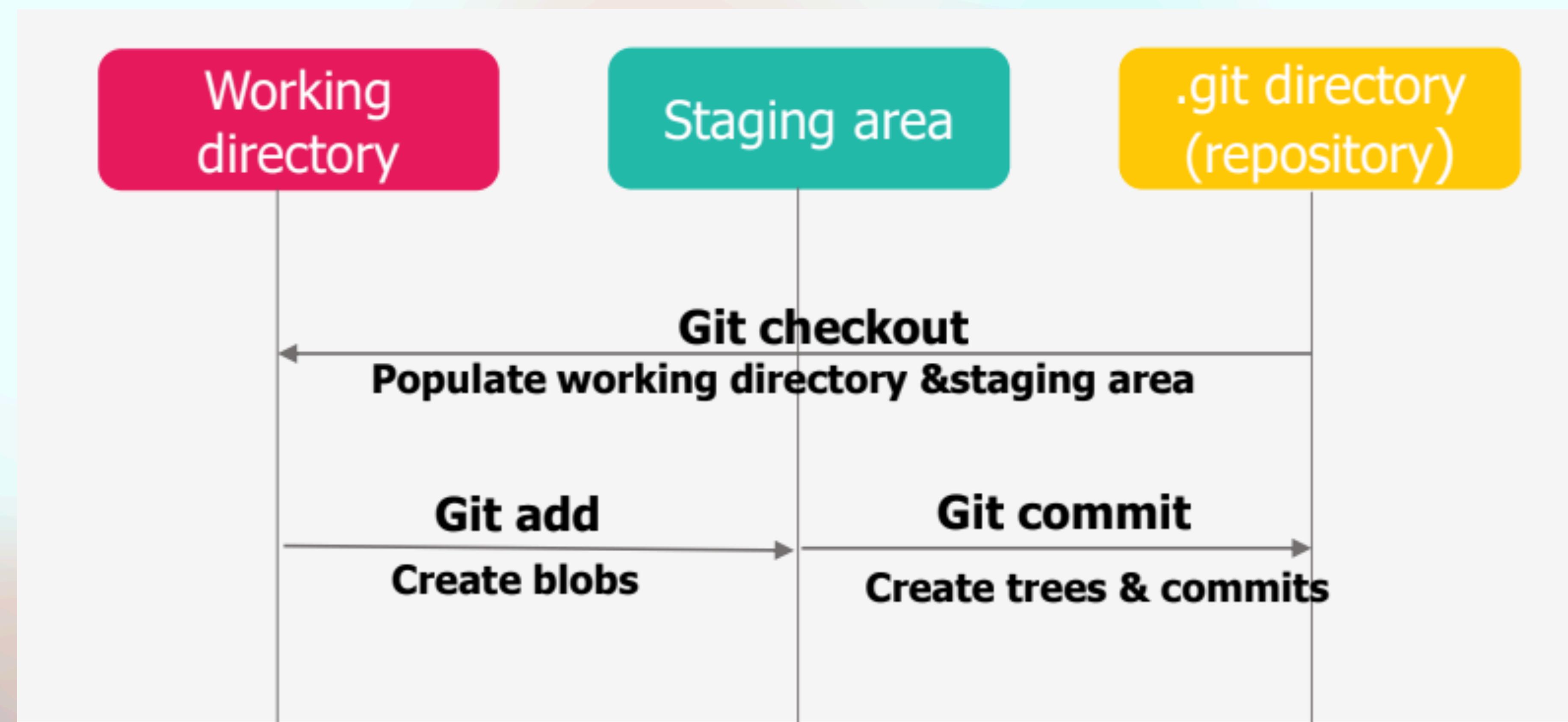


Термины

- **Репозиторий** - хранилище кода и истории его изменений
- **Коммит (Commit)** - сохраненная версия проекта/кода
- **Директория** - папка



Рабочий процесс



Git

2. Установка и настройка



Установка

- <https://git-scm.com/downloads>

The screenshot shows the 'Downloads' section of the official Git website. At the top, the Git logo and tagline '--fast-version-control' are displayed. A search bar is located in the top right corner. On the left side, there are links for 'About', 'Documentation', 'Downloads' (which is currently selected), 'GUI Clients', and 'Logos'. Below these are sections for 'Community' and 'The entire Pro Git book'. The main content area features a large heading 'Downloads' and three download links for 'macOS', 'Windows', and 'Linux/Unix'. To the right, a large monitor icon displays the 'Latest source Release' version '2.37.3' and a 'Download for Mac' button. Below this, there are sections for 'GUI Clients' (describing built-in tools like git-gui and gitk), 'Logos' (various formats available), and 'Git via Git' (instructions for cloning the repository).

git --fast-version-control

Search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

macOS Windows Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).



Настройка git

- ***git config --global user.name "Username"*** - задание имени пользователя git
- ***git config --global user.email "user_email@gmail.com"*** - задание почты пользователя

```
Last login: Fri Sep  9 23:15:41 on ttys000
[akshinguseinov@Akshins-MacBook-Air ~ % git config --global user.name "Akshin Guseinov"
[akshinguseinov@Akshins-MacBook-Air ~ % git config --global user.email "bboysound@yandex.ru"
```



Git

3. Основные команды



- ***git --version*** - проверка версии git
- ***git --help*** - информация об основных командах git
- ***git config --list*** - вывод информации о пользователе
- ***git init*** - создает пустой репозиторий Git или повторно инициализирует существующий
- ***git status*** - информация о файлах в рабочем каталоге
- ***git add*** - добавляет содержимое рабочего каталога в индекс (staging area) для последующего коммита
- ***git commit*** - берёт все данные, добавленные в индекс с помощью git add, и сохраняет их слепок во внутренней базе данных, а затем сдвигает указатель текущей ветки на этот слепок



Процесс добавления файла в staging area

```
Last login: Sun Sep 11 19:51:22 on ttys000
[akshinguseinov@Akshins-MacBook-Air ~ % ls
Applications Documents Library Music Pictures
Desktop Downloads Movies My_project Public
[akshinguseinov@Akshins-MacBook-Air ~ % cd /Users/akshinguseinov/My_project/Assets/Scripts
[akshinguseinov@Akshins-MacBook-Air Scripts % ls
Asteroid.cs AsteroidMother.cs.meta PlayButton.cs SpaceShip.cs.meta
Asteroid.cs.meta Bullet.cs PlayButton.cs.meta
AsteroidMother.cs Bullet.cs.meta SpaceShip.cs
[akshinguseinov@Akshins-MacBook-Air Scripts % git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /Users/akshinguseinov/My_project/Assets/Scripts/.git/
[akshinguseinov@Akshins-MacBook-Air Scripts % git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Asteroid.cs
    Asteroid.cs.meta
    AsteroidMother.cs
    AsteroidMother.cs.meta
    Bullet.cs
    Bullet.cs.meta
    PlayButton.cs
    PlayButton.cs.meta
    SpaceShip.cs
    SpaceShip.cs.meta

nothing added to commit but untracked files present (use "git add" to track)
[akshinguseinov@Akshins-MacBook-Air Scripts % git add PlayButton.cs
[akshinguseinov@Akshins-MacBook-Air Scripts % git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   PlayButton.cs

Untracked files:
  (use "git add <file>..." to include in what will be committed)
```



Процесс добавления файла в staging area

Порядок действий

1. Перейти в директорию с нужным файлом/файлами
2. Инициализировать пустой гит репозиторий
3. Добавить файл(ы) в staging area
4. Проверить статус



Основные команды терминала

- ***dir*** (для Windows) ***ls*** (для Mac) - просмотр файлов в текущей директории
- ***cd*** - смена директории (**change directory**)
- ***clear*** - очистка экрана терминала
- стрелка вверх/вниз - вызов предыдущих/следующих команд

Git

4. Установка и настройка Atom



Установка Atom

<https://atom.io>

The screenshot shows the official Atom website. At the top, there is a dark navigation bar with links for Packages, Themes, Documentation, Blog, and Discussions. On the right side of the bar is a 'Sign in' button. Below the navigation bar, a message states: 'Atom and all repositories under Atom will be archived on December 15, 2022. Learn more in our official statement.' To the left of the main content area is a large, stylized illustration of the Atom logo, which is a white atom symbol inside a circular track with colored segments (blue, green, yellow, red). A cartoon character resembling a green cat wearing a yellow space helmet is positioned next to the track. On the right side of the page, there is a download card for the Atom 1.60.0 release. The card has a dark background with light-colored text. It displays the word 'ATOM' in large letters, '1.60.0' with 'Release notes' below it, and 'macOS' with 'For macOS 10.10 or later' below that. At the bottom of the card is a yellow 'Download' button with a downward arrow icon. At the very bottom of the page, there is a footer with links for 'Other platforms', 'Try Atom Beta', and 'Try Atom Nightly'. The overall theme of the website is dark with light text and icons.

Packages Themes Documentation Blog Discussions

Sign in

Atom and all repositories under Atom will be archived on December 15, 2022. Learn more in our official statement

ATOM

1.60.0

Release notes

macOS

For macOS 10.10 or later

Download

By downloading, you agree to the Terms and Conditions.

Other platforms Try Atom Beta Try Atom Nightly

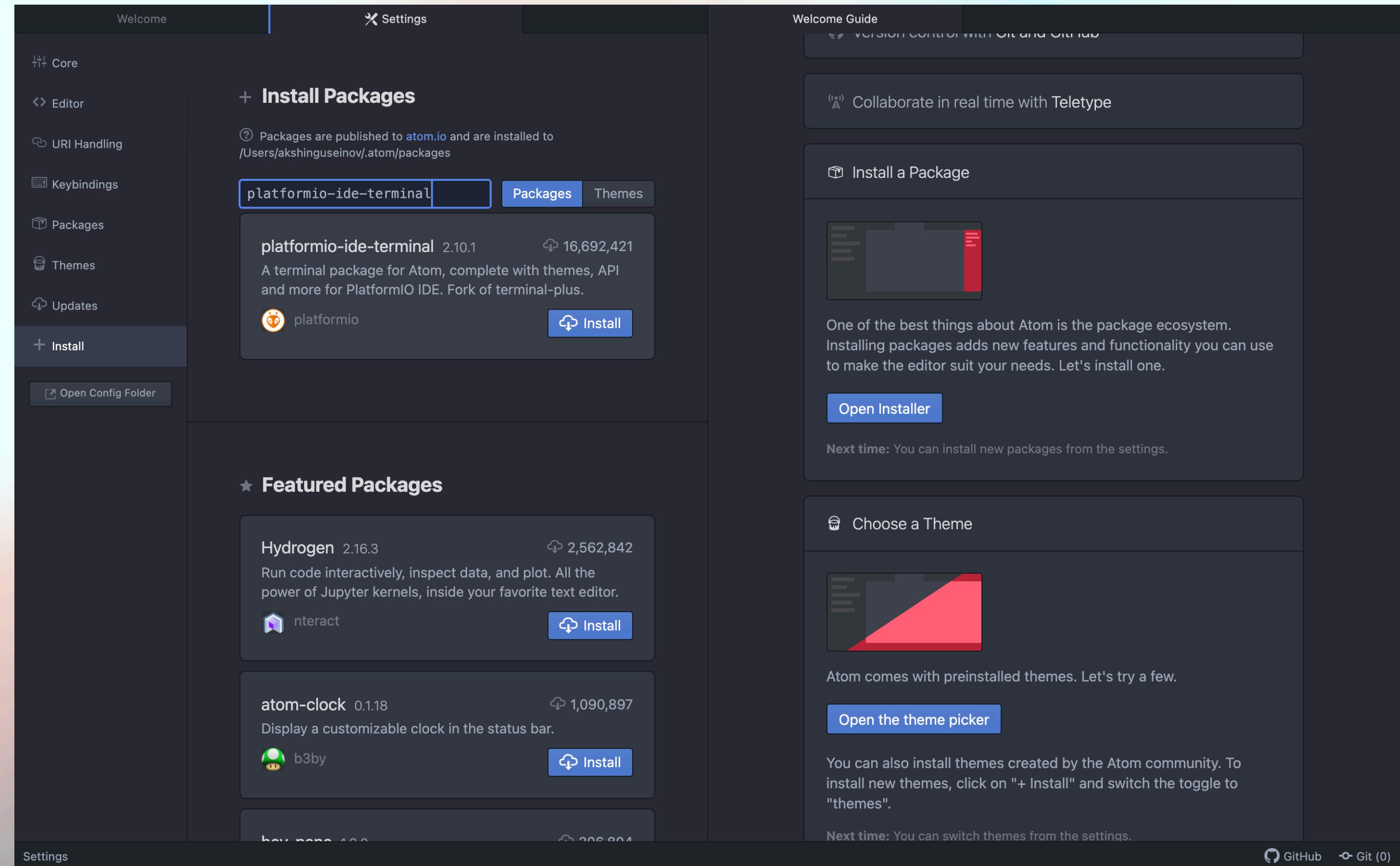
A hackable text editor for the 21st Century



Настройка Atom

1. Open Installer в правой части экрана

2. platformio-ide-terminal и нажать кнопку “Install”



Настройка Atom

В левой нижней части экрана нажать + New Terminal

