

# 1. Let's set up the development environment

Let's prepare the minimum necessary environment for proceeding with today's development.

# What to set

1. Text editor (Visual Studio Code)
2. Version control tool (Git / Github)

# Text editor

## Why do you need it?

The comfort of editing text makes development more efficient.

Some can add useful features needed for development.

- Code completion, format, decoration
- Access to program execution, version control, etc.

# What do you use?

(This time) Visual Studio Code

- Abbreviation is called vscode.

EXPLORER... 1-1.md detail.html 1-0.md schedule.png profile\_sample.png

> OPEN EDITORS 1 UNSAVED

UNTITLED (WORKSPACE)

titech-2020

docs

Phase1

images

profile\_sample.png

schedule.png

1-0.md

1-1.md

1-2.md

1-3.md

Phase2

images

2-1.md

titech-html-sample

detail.html

index.html

list-advance.html

list.html

README.md

style.css

titech-html-sample-purehtml

titech-html-sample-purehtml-addcss

titech-nuxt-sample

titech-vue-sample

README.md

titech-2020 > titech-html-sample > detail.html > ...

1<!DOCTYPE html>

2<html lang="ja">

3<head>

4<title>メンバープロフィール | TOTAL Sample Project</title>

5<meta charset="utf-8" />

6<meta name="viewport" content="width=device-width,initial-scale=1" />

7<meta name="description" content="TOTAL Sample Project" />

8<link href="https://cdnjs.cloudflare.com/ajax/libs/tailwindcss/1.4.6/tailwind.min.css" rel="stylesheet" />

9<link href="style.css" rel="stylesheet" />

10</head>

11<body>

12<div class="bg-white flex flex-col font-sans">

13<div class="container mx-auto">

14<header class="flex items-center justify-between relative pl-4 sm:pl-0 py-6">

15<p class="leading-none">

16<a href="index.html" class="text-xl sm:text-2xl font-bold uppercase text-blue-900 hover:text-blue-800">

17TOTAL Sample Project

18</a>

19</p>

20<nav class="hidden md:flex text-lg">

21<a href="list.html" class="text-blue-900 hover:text-blue-600 py-3 px-6 text-sm font-bold">

22メンバーリスト

23</a>

24<a href="detail.html" class="text-blue-900 hover:text-blue-600 py-3 px-6 text-sm font-bold">

25メンバープロフィール

26</a>

27</nav>

28<button class="flex md:hidden flex-col absolute top-0 right-0 py-6 px-4 focus:outline-none">

29<span class="w-6 h-1 mb-1 bg-gray-500"></span>

30<span class="w-6 h-1 mb-1 bg-gray-500"></span>

31<span class="w-6 h-1 mb-1 bg-gray-500"></span>

32</button>

33</header>

34<main>

35<div class="container mx-auto">

36<h1 class="text-2xl sm:text-3xl text-blue-900 p-4 mb-4 md:mb-8 border-b">メンバープロフィール</h1>

37<div class="lg:w-11/12 mx-auto flex flex-wrap">

5

## Let's set up

Download from the URL below

Let's install without changing the settings.

<https://code.visualstudio.com/>



Visual Studio Code

Docs

Updates

Blog

API

Extensions

FAQ



Download

Version 1.50 is now available! Read about the new features and fixes from September.

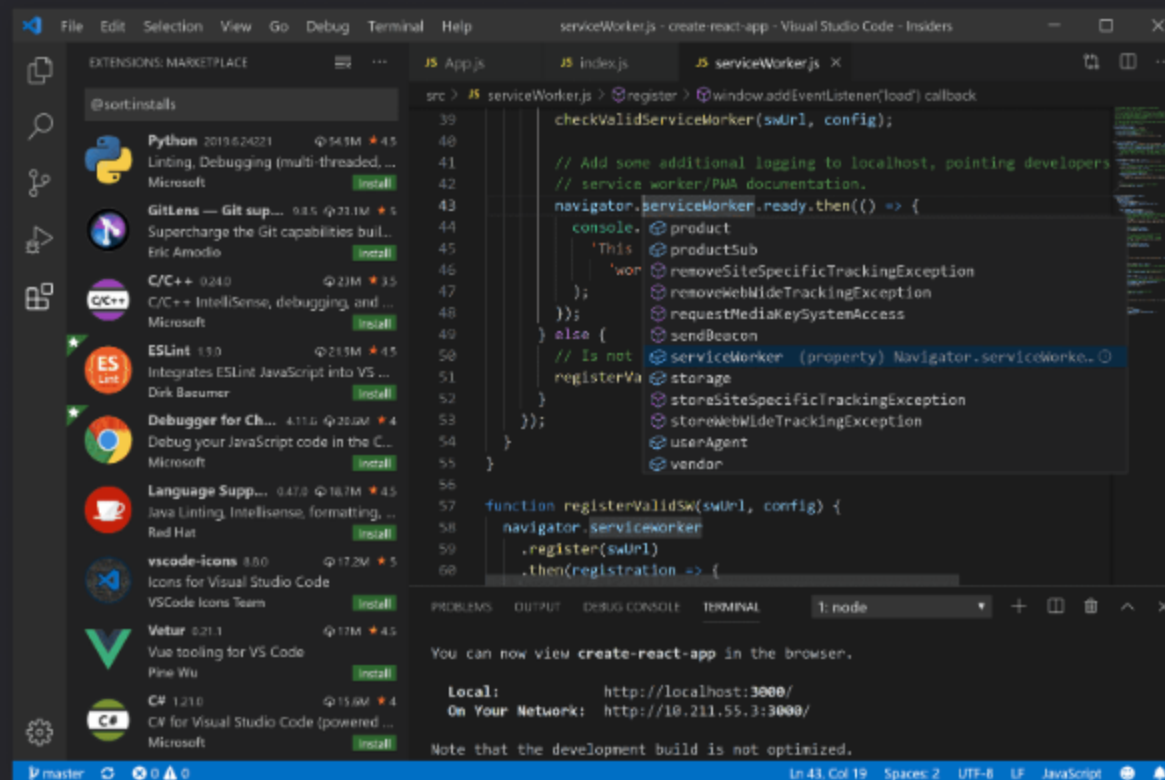
# Code editing. Redefined.

Free. Built on open source. Runs  
everywhere.

**Download for Windows**  
Stable Build

Other platforms and Insiders Edition

By using VS Code, you agree to its  
license and privacy statement.



IntelliSense



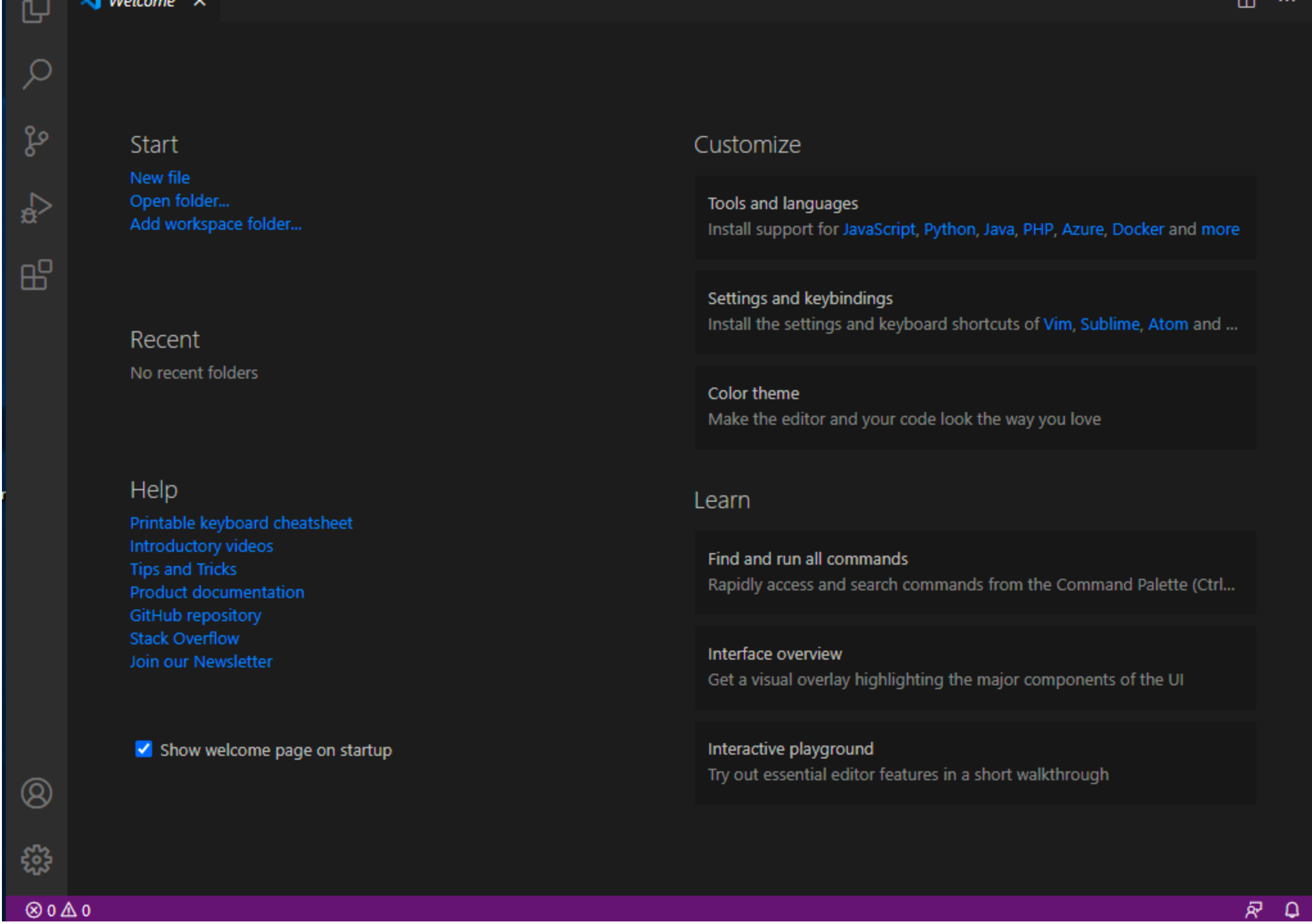
Run and Debug



Built-in Git



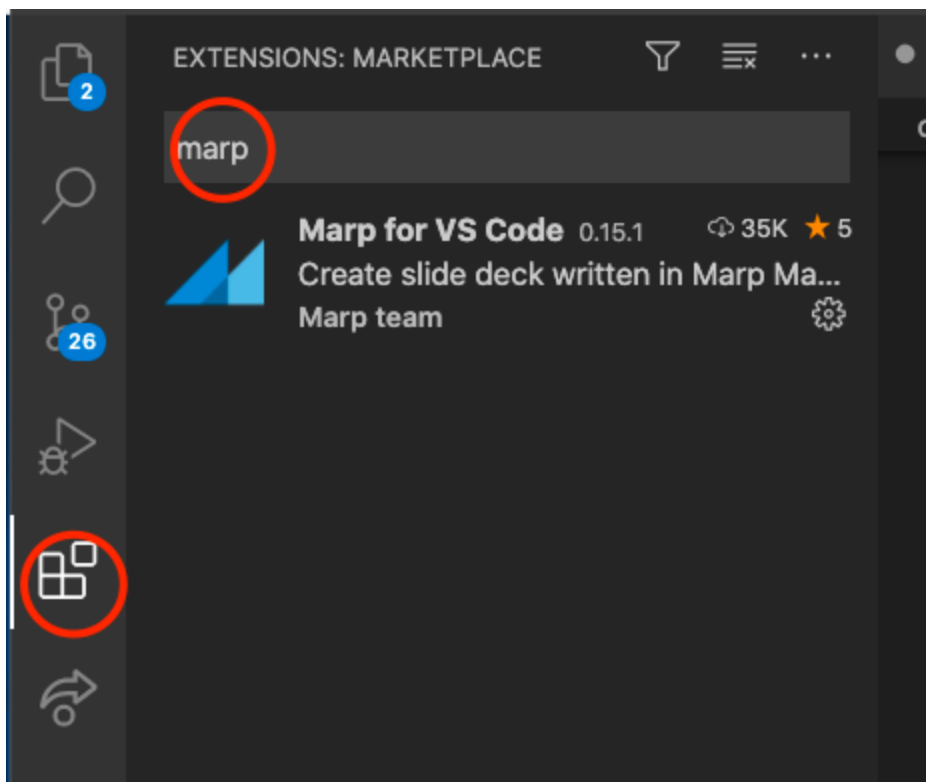
Extensions





## Let's install the following plugins

- Marp for VS Code
- etc



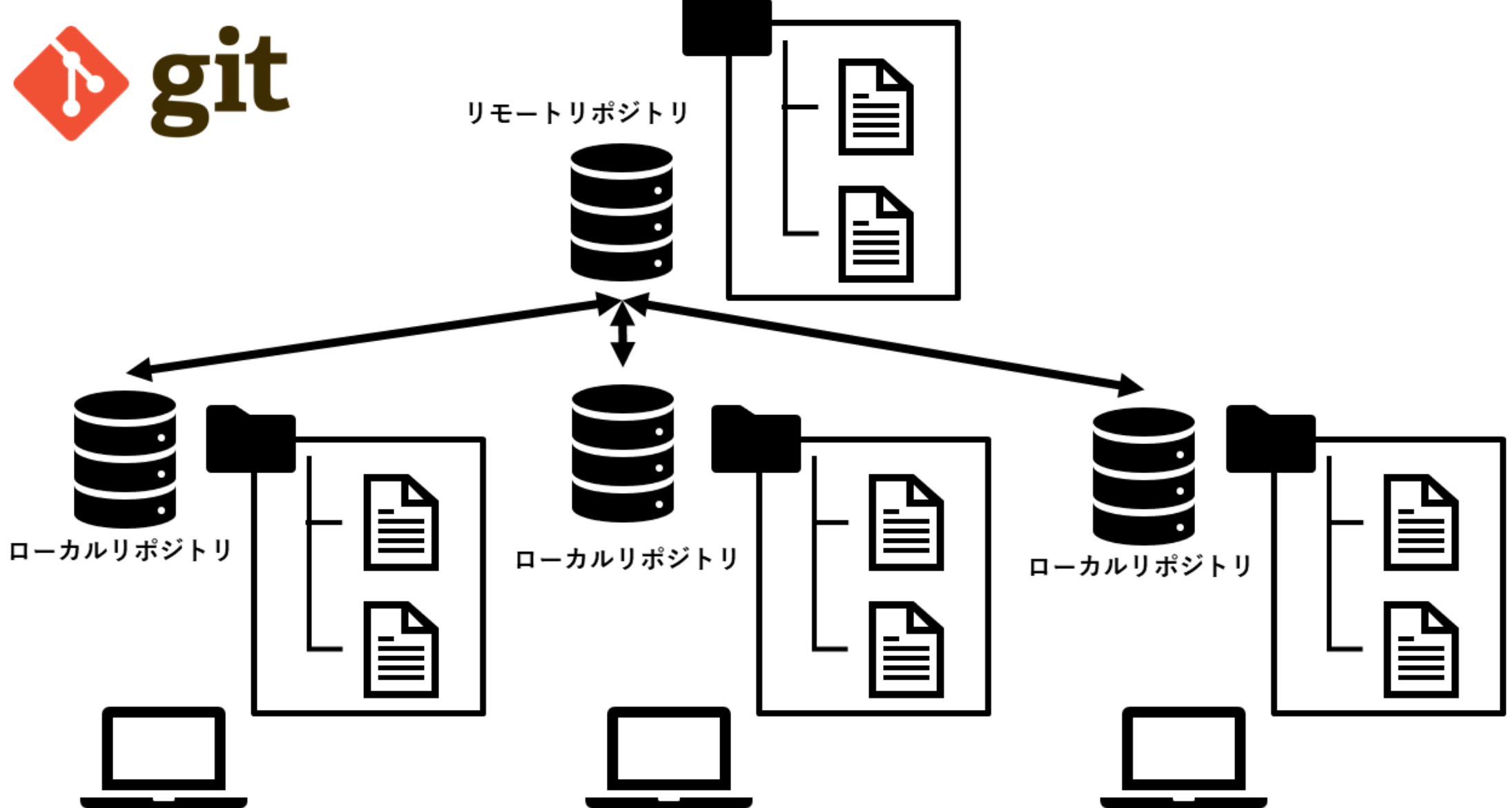
# Version control tool

## Why do you need it?

By managing the version of the code under development

It becomes easier to return / advance to the state of a specific development timing,

It makes it easier to collaborate with other developers.



Source: [Structural difference between Git and Subversion-Ricksoft Blog]

(<https://www.ricksoft.jp/blog/archives/9483/>)

## What do you use? What can i do? )


- git (version control system)
- github (repository hosting & various development support functions)





## Let's set up




Download from the URL below


Let's install without changing the settings.

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

 Git


    git-scm.com

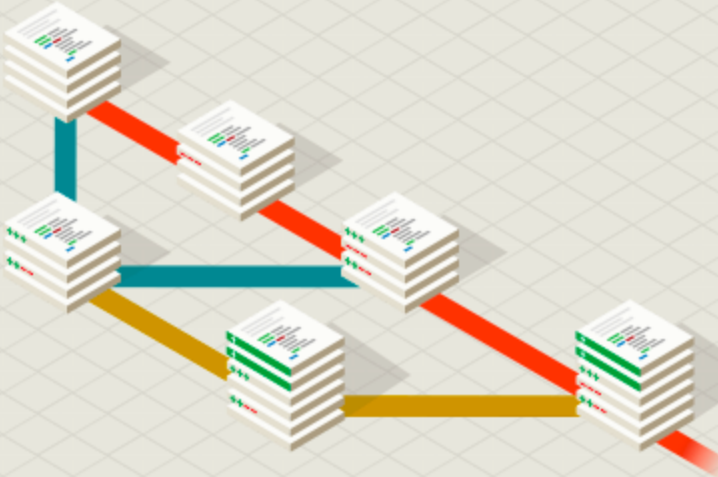
  

 **git** --fast-version-control

Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.


Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.






### About

The advantages of Git compared to other source control systems.




### Documentation

Command reference pages, Pro Git book content, videos and other material.



### Downloads

GUI clients and binary releases for all major platforms.



### Community

Get involved! Bug reporting, mailing list, chat, development and more.

Latest source Release

# 2.28.0

[Release Notes \(2020-07-27\)](#)

**Download 2.28.0 for Windows**

# First clone

A set of codes to be used in the lecture from today,  
Let's clone (duplicate the remote repository to the local repository).

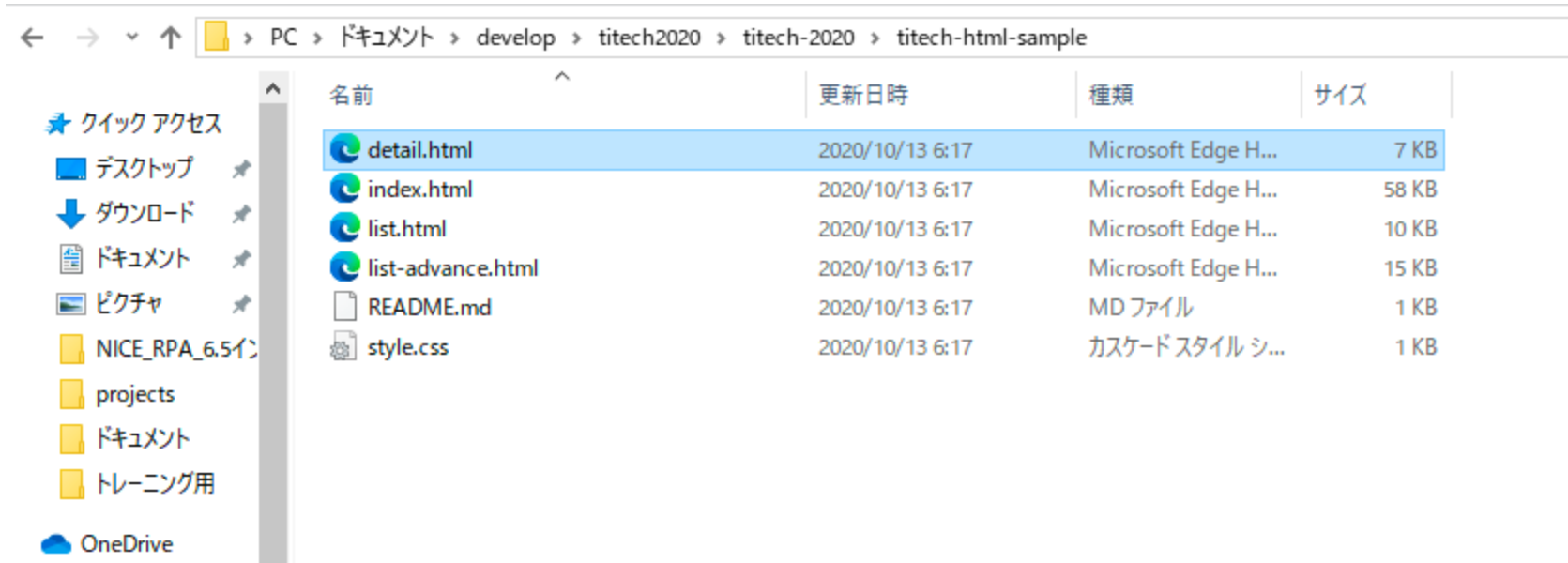
1. Create a GitHub account (free) in advance  
--<https://github.com/>
2. Right-click in the directory where you want to put the cloned set from File Explorer and open the menu.
3. Select "Git Bash Here" to launch Git Bash (command input screen for Git operation).
4. Run the command `git clone https://github.com/GuildWorks/titech-2020.git`
5. When you are prompted to log in, enter the ID / Password of the account you created in advance.



The screenshot shows a Windows File Explorer window with the address bar path: PC > ドキュメント > develop > titech2020 > titech-2020. The left sidebar shows 'クイック アクセス' (Quick Access) with links to 'デスクトップ' (Desktop), 'ダウンロード' (Downloads), 'ドキュメント' (Documents), 'ピクチャ' (Pictures), and a folder named 'NICE\_RPA\_6.5イン'. Below these are 'projects', 'ドキュメント', and 'トレーニング用'.

名前	更新日時	種類	サイズ
.git	2020/10/13 6:17	ファイル フォルダー	
docs	2020/10/13 6:17	ファイル フォルダー	
titech-html-sample	2020/10/13 6:17	ファイル フォルダー	
titech-nuxt-sample	2020/10/13 6:17	ファイル フォルダー	
titech-vue-sample	2020/10/13 6:17	ファイル フォルダー	
README.md	2020/10/13 6:17	MD ファイル	1 KB

A set of such files should be placed.



If you look under the titech-html-sample folder, you will find an HTML file.

## メンバープロフィール



NAME

仁和 泰也



こんにちは。仁和泰也といいます。友人からはにわりんと呼ばれているので、にわりんと呼んでください。住まいは新宿で、大学4回生です。趣味は、写真を撮ることが好きなので、休日は山に登り、風景や草花をカメラに収めています。また、自粛生活が続いたとき、料理くらいできないと思い、夏から料理教室に通っています。得意料理はカレーライスです。

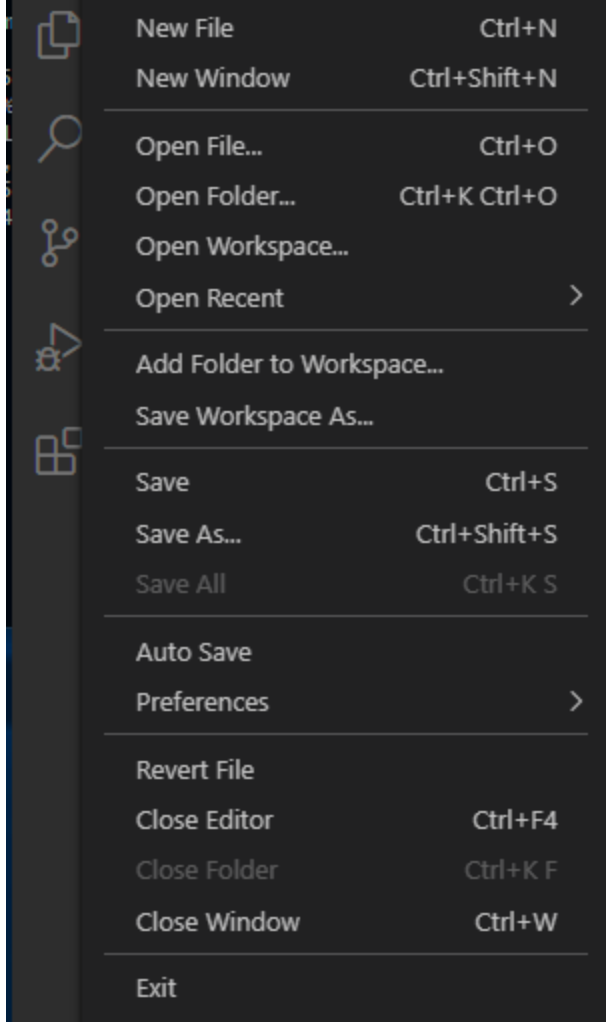
生年月日	2000年10月10日
血液型	A型
出身地	東京都
所属・部署	東京工業大学 情報理工学院
星座	天秤座
趣味	写真・料理
ニックネーム	にわりん

provided by Guild Works Volunteers

If you open detail.html, you can see today's final form.

Let's open it with ## vscode

1. Select "File" from the top menu of vscode
2. Select "Open Folder ..."
3. Select the cloned folder



The image shows the 'File' menu in Visual Studio Code. The menu is open, displaying various options for file and workspace management. The options are grouped into sections: New File, New Window, Open File..., Open Folder..., Open Workspace..., Open Recent, Add Folder to Workspace..., Save Workspace As..., Save, Save As..., Save All, Auto Save, Preferences, Revert File, Close Editor, Close Folder, Close Window, and Exit. Each option has a keyboard shortcut listed next to it. The menu is dark-themed and has a light gray border.

- New File Ctrl+N
- New Window Ctrl+Shift+N
- Open File... Ctrl+O
- Open Folder... Ctrl+K Ctrl+O
- Open Workspace...
- Open Recent >
- Add Folder to Workspace...
- Save Workspace As...
- Save Ctrl+S
- Save As... Ctrl+Shift+S
- Save All Ctrl+K S
- Auto Save
- Preferences >
- Revert File
- Close Editor Ctrl+F4
- Close Folder Ctrl+K F
- Close Window Ctrl+W
- Exit

[Join our Newsletter](#)

☒ Show welcome page on startup

## Customize

### Tools and languages

Install support for [JavaScript](#), [Python](#), [Java](#), [PHP](#), [Azure](#), [Docker](#) and [more](#)

### Settings and keybindings

Install the settings and keyboard shortcuts of [Vim](#), [Sublime](#), [Atom](#) and ...

### Color theme

Make the editor and your code look the way you love

## Learn

### Find and run all commands

Rapidly access and search commands from the Command Palette (Ctrl...

### Interface overview

Get a visual overlay highlighting the major components of the UI

### Interactive playground

Try out essential editor features in a short walkthrough

EXPLORER...1-1.md●detail.html ×1-0.mdschedule.pngprofile\_sample.png

> OPEN EDITORS 1 UNSAVED

UNTITLED (WORKSPACE)

titech-2020

docs

Phase1

images

profile\_sample.pngU

schedule.pngU

1-0.mdU

1-1.mdM

1-2.md

1-3.mdM

Phase2

images

2-1.md

titech-html-sample

detail.html

index.html

list-advance.html

list.html

README.md

# style.css

titech-html-sample-purehtml

titech-html-sample-purehtml-addcss

titech-nuxt-sample

titech-vue-sample

README.md

titech-2020 > titech-html-sample > detail.html > ...

1<!DOCTYPE html>

2<html lang="ja">

3<head>

4<title>メンバープロフィール | TOTAL Sample Project</title>

5<meta charset="utf-8" />

6<meta name="viewport" content="width=device-width,initial-scale=1" />

7<meta name="description" content="TOTAL Sample Project" />

8<link href="https://cdnjs.cloudflare.com/ajax/libs/tailwindcss/1.4.6/tailwind.min.css" rel="stylesheet" />

9<link href="style.css" rel="stylesheet" />

10</head>

11<body>

12<div class="bg-white flex flex-col font-sans">

13<div class="container mx-auto">

14<header class="flex items-center justify-between relative pl-4 sm:pl-0 py-6">

15<p class="leading-none">

16<a href="index.html" class="text-xl sm:text-2xl font-bold uppercase text-blue-900 hover:text-blue-800">

17TOTAL Sample Project

18</a>

19</p>

20<nav class="hidden md:flex text-lg">

21<a href="list.html" class="text-blue-900 hover:text-blue-600 py-3 px-6 text-sm font-bold">

22メンバーリスト

23</a>

24<a href="detail.html" class="text-blue-900 hover:text-blue-600 py-3 px-6 text-sm font-bold">

25メンバープロフィール

26</a>

27</nav>

28<button class="flex md:hidden flex-col absolute top-0 right-0 py-6 px-4 focus:outline-none">

29<span class="w-6 h-1 mb-1 bg-gray-500"></span>

30<span class="w-6 h-1 mb-1 bg-gray-500"></span>

31<span class="w-6 h-1 mb-1 bg-gray-500"></span>

32</button>

33</header>

34<main>

35<div class="container mx-auto">

36<h1 class="text-2xl sm:text-3xl text-blue-900 p-4 mb-4 md:mb-8 border-b">メンバープロフィール</h1>

37<div class="lg:w-11/12 mx-auto flex flex-wrap">

22

# Node.js / npm

## Why do you need it?

What is Node.js? Network application

A JavaScript environment designed to build.

For application execution and package management from the second time onwards

You will need it.

## Let's set up

Download it from the following and install it without changing any settings.

<https://nodejs.org/en/download/>





HOME

ABOUT

DOWNLOADS

DOCS

GET INVOLVED

SECURITY

CERTIFICATION

NEWS

## Downloads

Latest LTS Version: **12.19.0** (includes npm 6.14.8)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS

Recommended For Most Users

Current

Latest Features



Windows Installer

node-v12.19.0-x64.msi



macOS Installer

node-v12.19.0.pkg



Source Code

node-v12.19.0.tar.gz

Windows Installer (.msi)

Windows Binary (.zip)

macOS Installer (.pkg)

macOS Binary (.tar.gz)

Linux Binary (.tar.gz)

32-bit	64-bit
32-bit	64-bit
64-bit	
64-bit	
64-bit	

Let's use the following command from the git bash screen.

```
node --version
```

When the version is returned, the installation is successful.

```
v12.19.0
```

## Let's run the sample project

Open git bash in the titech-nuxt-sample folder and  
Let's execute the following command.

```
npm install
```

- It will take some time to complete.

```
npm run dev
```

```
> 95 |         uploadedImage.value = e.target.result[0]
    |                                     ^
96 |     }
97 | }
98 | reader.readAsDataURL(file)

ERROR ERROR in C:/Users/kimum/Documents/develop/titech2020/titech-2020/titech-nuxt-samp
95:33 Element implicitly has an 'any' type because expression of type '0' can't be used to
Property '0' does not exist on type 'string | ArrayBuffer'.
93 |     reader.onload = (e) => {
94 |         if (e && e.target) {
> 95 |             uploadedImage.value = e.target.result[0]
    |                                     ^
96 |         }
97 |     }
98 |     reader.readAsDataURL(file)

i Version: typescript 3.8.3
i Time: 38771 ms
i Waiting for file changes
i Memory usage: 481 MB (RSS: 582 MB)
i Listening on: http://localhost:3000/
```

Let's access the following URL.

<http://localhost:3000/>

# TOTAL SAMPLE PROJECT

[ユーザー登録](#)

[ログイン](#)

## ログイン

ログイン

provided by Guild Works Volunteers

# Development environment setup, end

Do you have any question.