Python Course

Introduction

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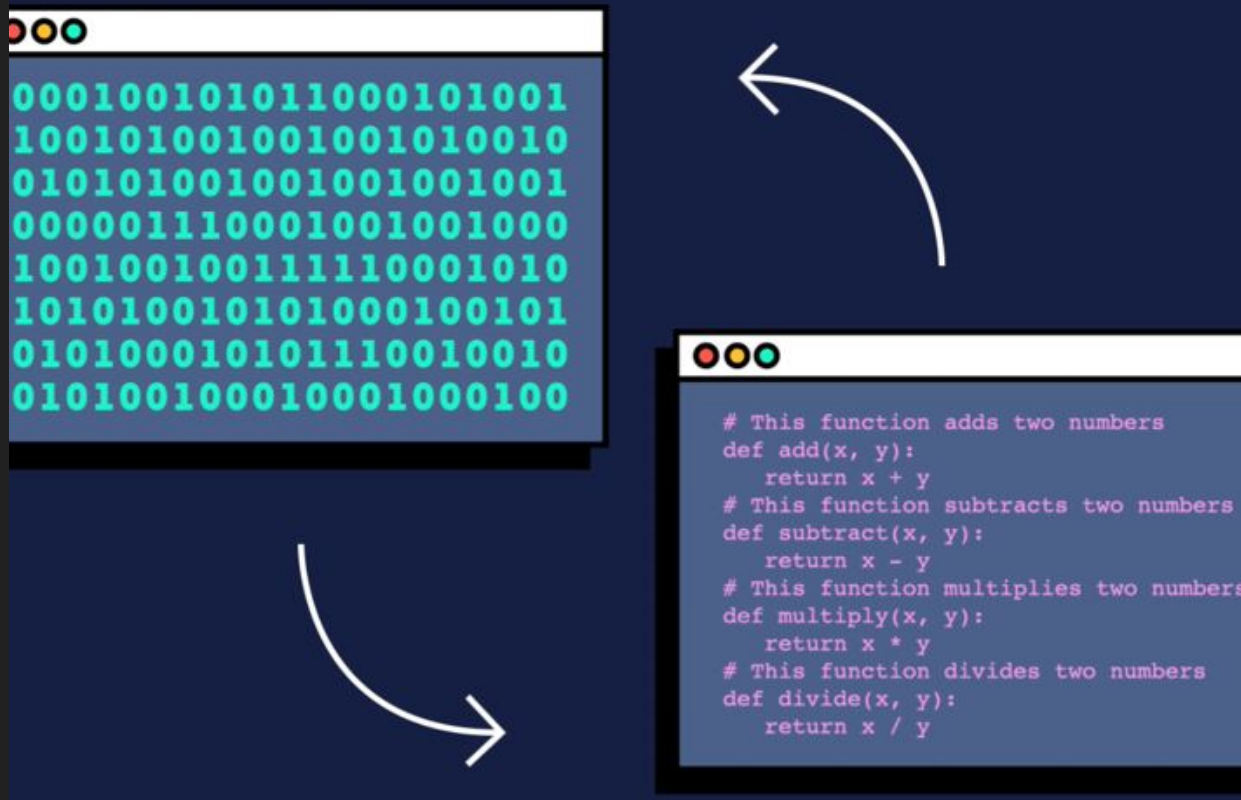
Programming Language

Computer programming languages allow us to give instructions to a computer in a language the computer understands. Just as many human-based languages exist, there are an array of computer programming languages that programmers can use to communicate with a computer. The portion of the language that a computer can understand is called a “binary.” Translating programming language into binary is known as “compiling.” Each language, from C Language to Python, has its own distinct features, though many times there are commonalities between programming languages.



Programming Language

- It Guarantees You a Job
- No Need for a Four-Year Degree
- You Get to Work From Home
- You Can Create Anything You Want
- High Income Potential
- You Understand How Software Works
- It Teaches You Persistence
- You Learn To Combine Technical Skills and Creativity
- You Develop Problem Solving Skills
- Open Your Own Business

Most Popular Programming Languages in 2023

1. Javascript
2. **Python**
3. Go
4. Java
5. Kotlin
6. PHP
7. C#
8. Swift
9. R
10. Ruby
11. C and C++
12. Matlab
13. TypeScript
14. Scala
15. SQL
16. HTML
17. CSS
18. NoSQL
19. Rust
20. Perl

Why python?

- It couldn’t get simpler than Python!
- Python is highly flexible and extensible
- Python has a library to cater to your every need.
- Python makes web development a breeze
- There’s plenty for Data Visualization
- Python comes with numerous testing frameworks
- Python is excellent for Machine learning
- Python is great for scripting
- Python is backed by an active community
- Python skills can command high salaries

C lang

python

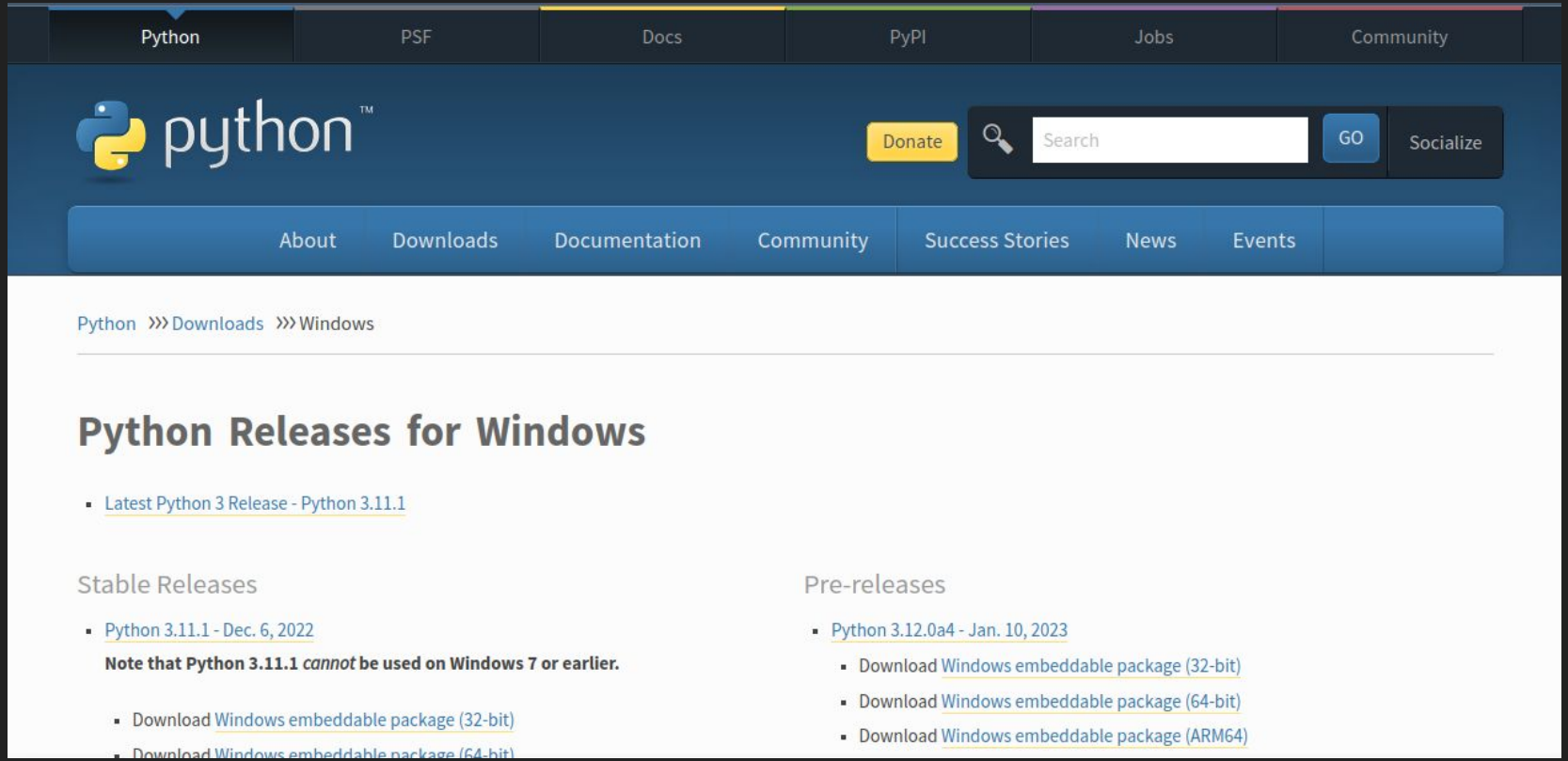
Applications of python

- Web and Internet Development
- Scientific and Numeric
- Education
- Desktop GUIs
- Software Development
- Business Applications
- Image processing
- AI and more…

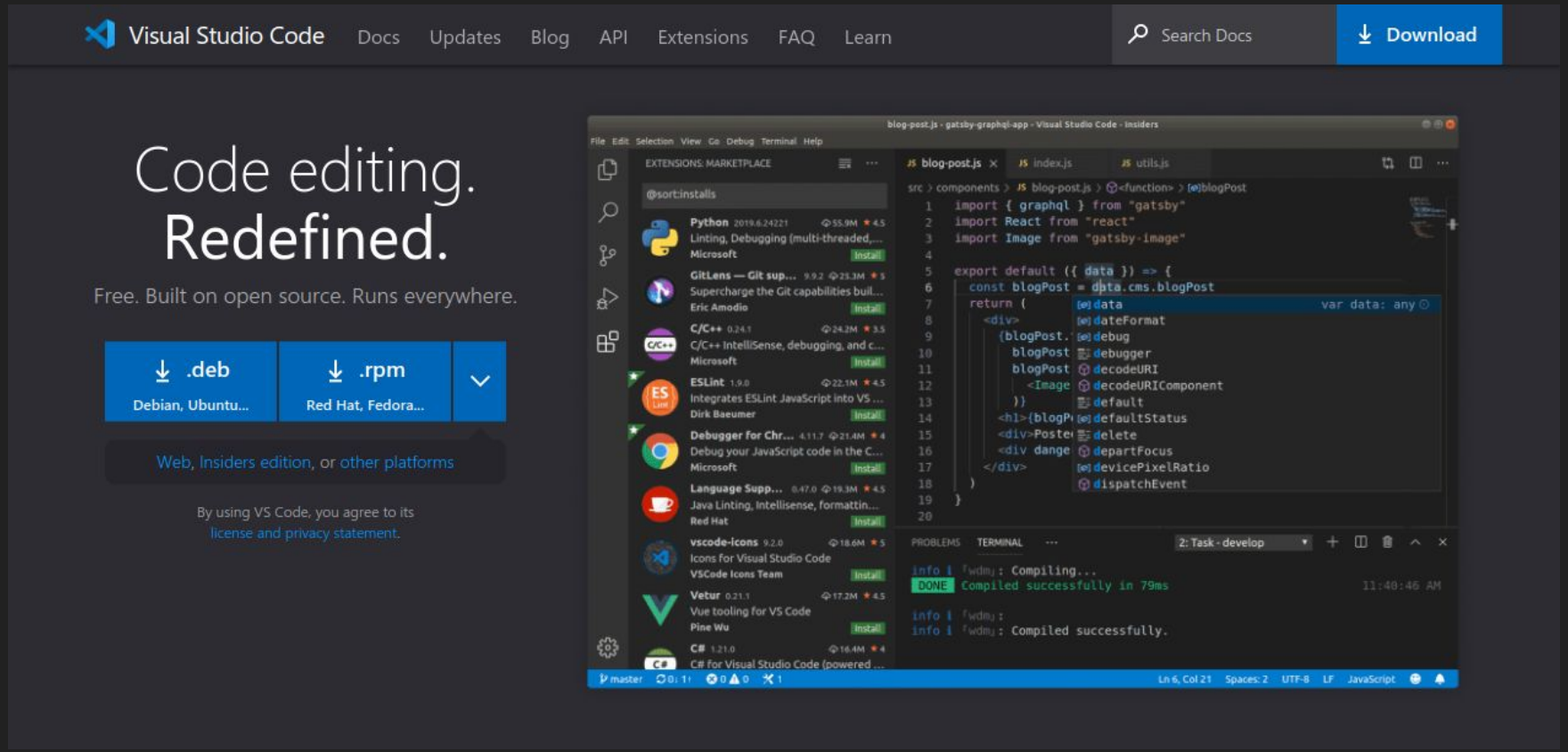
What we learn in this course?

- Basics of python
  - Variables, expressions, and statements
  - Conditional execution
  - Functions
  - Iteration
  - Strings
  - Lists
  - Dictionaries
  - Tuples
  - Files
- Numpy (basic)
- Matplotlib (basic)

Python Installation



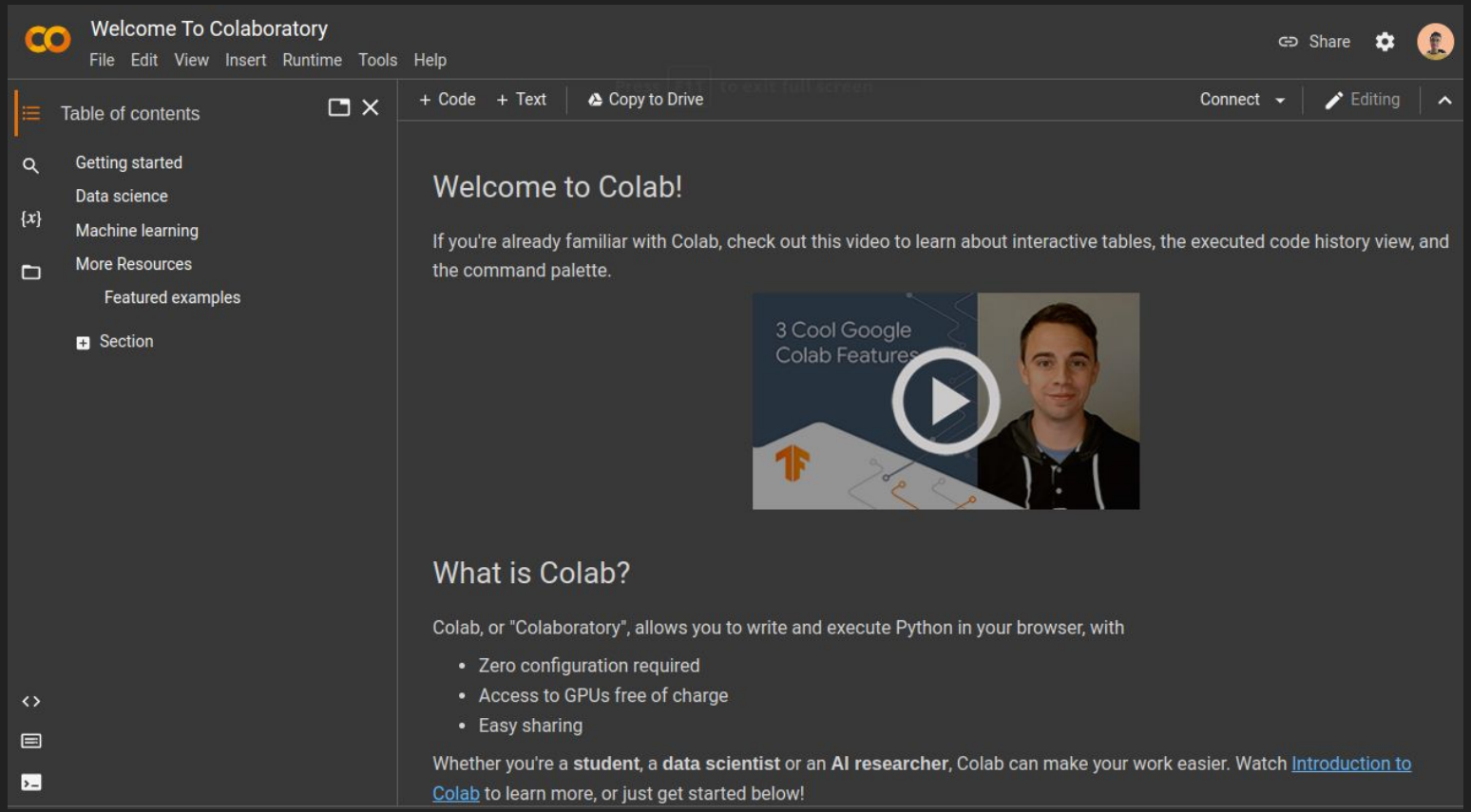
IDE


Visual Studio Code
Docs
Updates
Blog
API
Extensions
FAQ
Learn
Search Docs
Download
Code editing.
Redefined.
Free. Built on open source. Runs everywhere.
.deb
Debian, Ubuntu...
.rpm
Red Hat, Fedora...
Web, Insiders edition, or other platforms
By using VS Code, you agree to its
license and privacy statement.
blog-post.js - gatsby-graphql-app - Visual Studio Code - Insiders
EXTENSIONS: MARKETPLACE
@sort:installs
Python
Linting, Debugging (multi-threaded,...
Microsoft
GitLens — Git sup...
Supercharge the Git capabilities buil...
Eric Amodio
C/C++
C/C++ IntelliSense, debugging, and c...
Microsoft
ESLint
Integrates ESLint JavaScript into VS ...
Dirk Baeumer
Debugger for Chr...
Debug your JavaScript code in the C...
Microsoft
Language Supp...
Java Linting, Intellisense, formattin...
Red Hat
vscode-icons
Icons for Visual Studio Code
VSCode Icons Team
Vetur
Vue tooling for VS Code
Pine Wu
C#
C# for Visual Studio Code (powered ...
blog-post.js
index.js
utils.js
src > components > blog-post.js > <function> > [e]blogPost
import { graphql } from "gatsby"
import React from "react"
import Image from "gatsby-image"
export default ({ data }) => {
const blogPost = data.cms.blogPost
return (

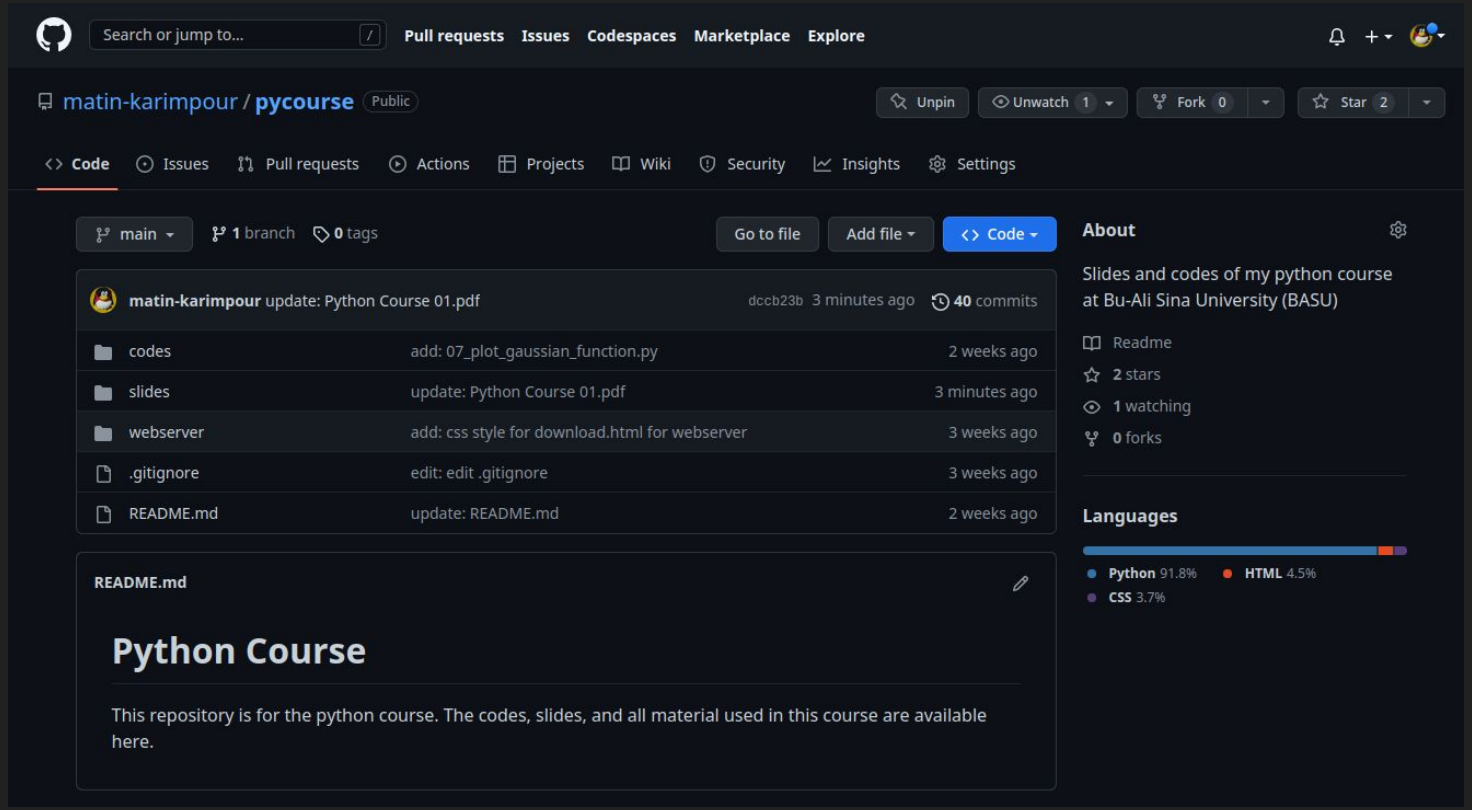
{blogPost.
blogPost
blogPost
<Image
})
<h1>{blogP
Poste
<div dange

)
}
data
var data: any
dateFormat
debug
debugger
decodeURI
decodeURIComponent
default
defaultStatus
delete
departFocus
devicePixelRatio
dispatchEvent
PROBLEMS
TERMINAL
2: Task - develop
info i [wdm]: Compiling...
DONE Compiled successfully in 79ms
11:40:46 AM
info i [wdm]:
info i [wdm]: Compiled successfully.
master
Ln 6, Col 21
Spaces: 2
UTF-8
LF
JavaScript

Colab


Welcome To Colaboratory
File Edit View Insert Runtime Tools Help
Share
Table of contents
Getting started
Data science
Machine learning
More Resources
Featured examples
Section
+ Code + Text
Copy to Drive
Connect
Editing
Welcome to Colab!
If you're already familiar with Colab, check out this video to learn about interactive tables, the executed code history view, and the command palette.
3 Cool Google Colab Features
What is Colab?
Colab, or "Colaboratory", allows you to write and execute Python in your browser, with
Zero configuration required
Access to GPUs free of charge
Easy sharing
Whether you're a student, a data scientist or an AI researcher, Colab can make your work easier. Watch Introduction to Colab to learn more, or just get started below!

Codes and Slides



Get Python & vscode Installer

1. Connect to ***pycourse*** network
2. Go to ***http://192.168.0.200:5000/*** or scan the QR code
3. Click on the button
4. Install files :)

Let’s Code :)

Please scan this QR code and complete the survey.