

1  
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```
System.out.println("Visual  
Studio Code");
```

```
1  switch (temas) {
2      case 1: Que es Visual Studio Code;
3      case 2: Historia;
4      case 3: Donde descargar VSC;
5      case 4: Versión recomendada;
6      case 5: Guia de instalación;
7      case 6: Interfaz;
8      case 7: Personalización;
9      case 8: Configuración de un proyecto Java;
10     case 9: Integración con Git;
11     case 10: Integración con Copilot;
12     case 11: Ejecución del código, debug y visualización de
13             variables;
14     case 12: Extensiones;
15 }
```

# ¿Que es visual studio code?{

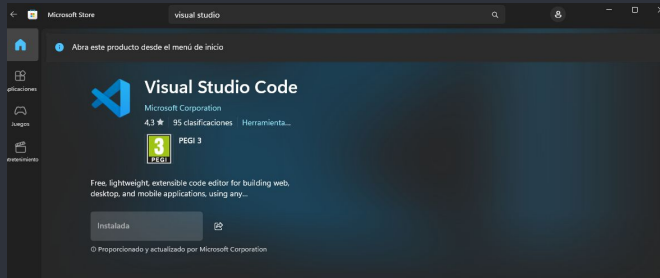
Visual Studio Code es un editor código fuente desarrollado por microsoft. Es gratuito y de código abierto ofrece muchas características como depuración integrada, control de versiones git, terminal incorporada y una amplia variedad de extensiones que amplían su funcionalidad

1. Aplicaciones web
2. Aplicaciones móviles
3. Aplicaciones de escritorio
4. Desarrollo de APIs
5. Base de datos

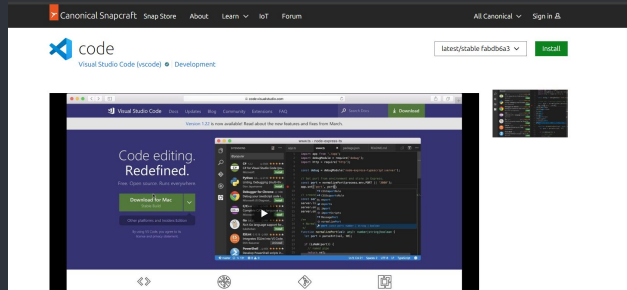
}

Descargar.java

¿Donde podemos descargar vsc?{



Disponible para Windows, macOS y linux



# Historia Visual Studio Code {

1997

Se lanza visual studio code  
97

2002

Se introduce visual  
studio.net

2010-2015

Soporte con tecnologías  
modernas y mejoras en la  
integración de git

```
1
2
3     2016-2018
4         -Se mejora el rendimiento
5         -Salen muchas mas extensiones
6         -se integra el terminal
7
8     2019-2020
9         -metieron la funcion remote development
10        -mayor soporte para los lenguaje de
11        programación
12
13        2021-2024
14            -Integracion github copilot
15            -soporte mejorado en la nube con
16            github
17    }
```

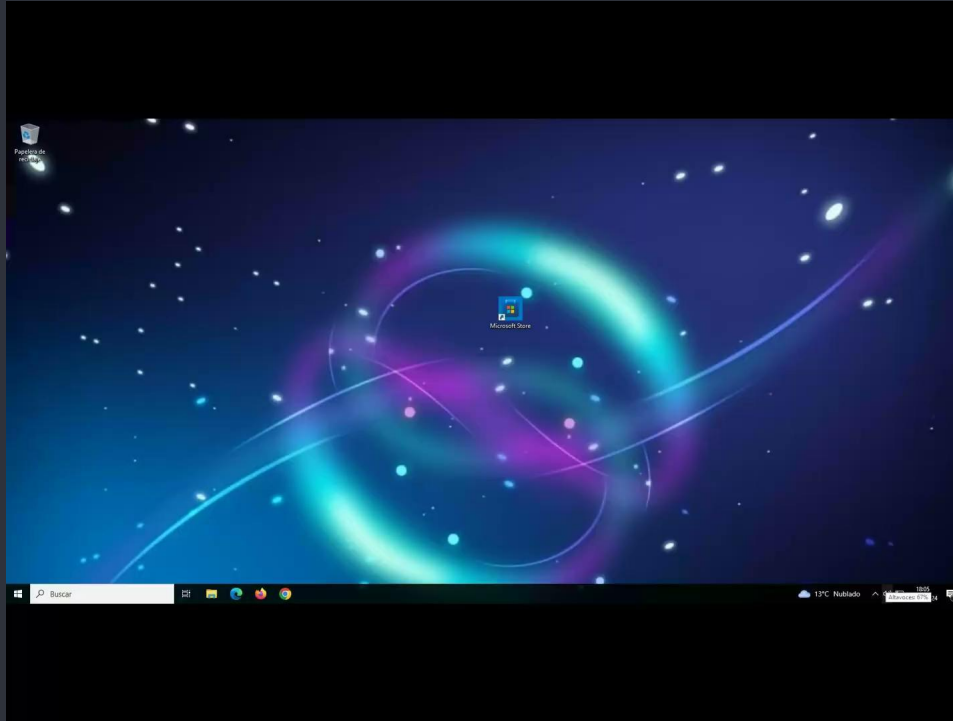
```
1
2      ¿Porque tiene tanto éxito visual studio? {
3
4      |
5      |   → Fácil de usar
6      |   → Gran comunidad
7      |   → Multiplataforma
8      |   → Gratuito
9      |   → Ligero y rápido
10     |   → Extensiones
11     |   → Git integrado
12     |
13     }
14
```

```
1 ¿Cual es la versión recomendada?{  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14 }
```

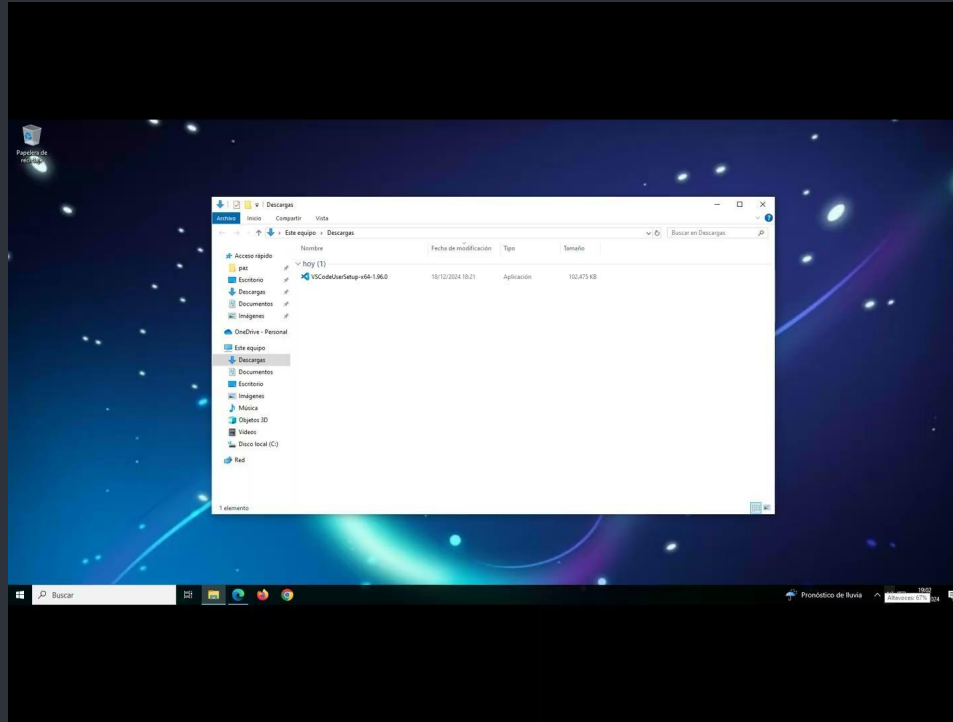
- Visual Studio Code se actualiza de forma constante y no tiene una version LTS, es recomendable utilizar la última versión.



# Instalación | Microsoft Store



# Instalación | Windows



# Instalación Visual Studio Code



## User Setup

Sin Permisos de Admin  
Actualizaciones Automáticas  
Instalación en Local AppData del Usuario



## System Setup

Con Permisos de Admin  
Actualizaciones con Permisos de Admin  
Disponible para todos los usuarios

Activity Bar

Primary Sidebar

Editor

Secondary Sidebar

📄

🔍

🔗

🔍

📦

EXPLORER

...

VS CODE

build

extensions

node\_modules

out

remote

resources

scripts

src

src

test

.editorconfig

.eslintignore

.git-blame-ignore

.gitattributes

.gitignore

.mailmap

.mention-bot

.yarnrc

yarn.lock

gulpfile.js

.eslintrc.json

.lsifrc.json

cglicenses.json

cgmanifest.json

package.json

product.json

tsfmt.json

CONTRIBUTING.md

README.md

SECURITY.md

LICENSE.txt

OUTLINE

gulpfile.js x

TS Untitled-2

🔗

📄

...

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/\*-----  
 \* Copyright (c) Microsoft Corporation. All rights reserved.  
 \* Licensed under the MIT License. See License.txt in the project root for license  
 \*-----\*/  
  
'use strict';  
  
// Increase max listeners for event emitters  
require('events').EventEmitter.defaultMaxListeners = 100;  
  
const gulp = require('gulp');  
const util = require('./build/lib/util');  
const path = require('path');  
const compilation = require('./build/lib/compilation');  
  
// Fast compile for development time  
gulp.task('clean-client', util.rimraf('out'));  
gulp.task('compile-client', ['clean-client'], compilation.compileTask('out', false));  
gulp.task('watch-client', ['clean-client'], compilation.watchTask('out', false));  
  
// Full compile, including nls and inline sources in sourcemaps, for build  
gulp.task('clean-client-build', util.rimraf('out-build'));  
gulp.task('compile-client-build', ['clean-client-build'], compilation.compileTask('out-build', false));  
gulp.task('watch-client-build', ['clean-client-build'], compilation.watchTask('out-build', false));  
  
// Default  
gulp.task('default', ['compile']);

🔍

🔗

🔍

📄

...

File Saved 22 min

File Saved 40 min

Update formatting 1 day

File Saved 2 days

Update formatting 5 days

Update formatting 2 wks

PROBLEMS

OUTPUT

TERMINAL 1

DEBUG CONSOLE

📄

+

📄

🗑

^

×

zsh

+

📄

🗑

^

×

[09:43:36] Starting 'watch-extension:vscode-api-tests'...

[09:43:36] Finished 'clean-extension:typescript-language-features' after 248 ms

[09:43:36] Starting 'watch-extension:typescript-language-features'...

[09:43:36] Finished 'clean-extension:php-language-features' after 384 ms

[09:43:36] Starting 'watch-extension:php-language-features'...

[09:43:40] Finished 'clean-extension:html-language-features-server' after 4.66 s

[09:43:40] Starting 'watch-extension:html-language-features-server'...

[09:43:43] Finished 'clean-client' after 7.33 s

[09:43:43] Starting 'watch-client'...

main

041↑

0

0

0

Ln 17, Col 3

Spaces: 2

UTF-8

LF

{}

JavaScript

🔍

🔗

Panel

Status Bar

View Container

Activity Bar

View Toolbar

View

Sidebar

Sidebar Toolbar

Editor

Editor Toolbar

The screenshot shows the VS Code interface with several components labeled:

- View Container:** Points to the Explorer sidebar on the left.
- Activity Bar:** Points to the sidebar area containing icons for Explorer, Search, Source Control, Run and Debug, and Extensions.
- View Toolbar:** Points to the top of the Explorer sidebar.
- View:** Points to the Explorer sidebar.
- Sidebar:** Points to the Explorer sidebar.
- Sidebar Toolbar:** Points to the top of the Explorer sidebar.
- Editor:** Points to the main editor area.
- Editor Toolbar:** Points to the top of the editor area.
- View Container:** Points to the top of the editor area.
- Panel Toolbar:** Points to the top of the terminal panel.
- View:** Points to the terminal panel.
- Panel:** Points to the terminal panel.

The Explorer sidebar shows a file tree for a project named 'VS CODE'. The file tree includes folders like 'build', 'extensions', 'node\_modules', 'out', 'remote', 'resources', 'scripts', 'src', 'test', and files like '.editorconfig', '.eslintignore', '.git-blame-ignore', '.gitattributes', '.gitignore', '.mailmap', '.mention-bot', '.yarnrc', 'yarn.lock', 'gulpfile.js', '.eslintrc.json', '.lsifrc.json', 'cglicenses.json', 'cgmanifest.json', 'package.json', 'product.json', 'tsfmt.json', 'CONTRIBUTING.md', 'README.md', 'SECURITY.md', 'OUTLINE', and 'TIMELINE'. The 'gulpfile.js' file is selected.

The editor area shows the content of 'gulpfile.js'.

```
1 /*
2  * Copyright (c) Microsoft Corporation. All rights reserved.
3  * Licensed under the MIT License. See License.txt in the project root for license information.
4  */
5
6 'use strict';
7
8 // Increase max listeners for event emitters
9 require('events').EventEmitter.defaultMaxListeners = 100;
10
11 const gulp = require('gulp');
12 const util = require('./build/lib/util');
13 const path = require('path');
14 const compilation = require('./build/lib/compilation');
15
16 // Fast compile for development time
17 gulp.task('clean-client', util.rimraf('out'));
18 gulp.task('compile-client', ['clean-client'], compilation.compileTask('out', false));
19 gulp.task('watch-client', ['clean-client'], compilation.watchTask('out', false));
20
21 // Full compile, including nls and inline sources in sourcemaps, for build
22 gulp.task('clean-client-build', util.rimraf('out-build'));
23 gulp.task('compile-client-build', ['clean-client-build'], compilation.compileTask('out-build', true));
24 gulp.task('watch-client-build', ['clean-client-build'], compilation.watchTask('out-build', true));
25
26 // Default
27 gulp.task('default', ['compile']);
```

The terminal panel shows the output of the build process:

```
[09:43:36] Starting 'watch-extension:vscode-api-tests'...
[09:43:36] Finished 'clean-extension:typescript-language-features' after 248 ms
[09:43:36] Starting 'watch-extension:typescript-language-features'...
[09:43:36] Finished 'clean-extension:php-language-features' after 384 ms
[09:43:36] Starting 'watch-extension:php-language-features'...
[09:43:40] Finished 'clean-extension:html-language-features-server' after 4.66 s
[09:43:40] Starting 'watch-extension:html-language-features-server'...
[09:43:43] Finished 'clean-client' after 7.33 s
[09:43:43] Starting 'watch-client'...
```

Status Bar Item

Status Bar

Ln 17, Col 3 Spaces: 2 UTF-8 LF () JavaScript



Show All Commands **Ctrl** + **Shift** + **P**

Go to File **Ctrl** + **P**

Toggle Terminal **Ctrl** + **⇧**

Start Debugging **F5**

Open Settings **Ctrl** + **,**





- Show All Commands `Ctrl + Shift + P`
- Go to File `Ctrl + P`
- Find in Files `Ctrl + Shift + F`
- Start Debugging `F5`
- Toggle Terminal `Ctrl + ñ`
- Toggle Full Screen `F11`
- Show Settings `Ctrl + ,`





Ctrl + Shift + P

Ctrl + P

Ctrl + Shift + F

F5

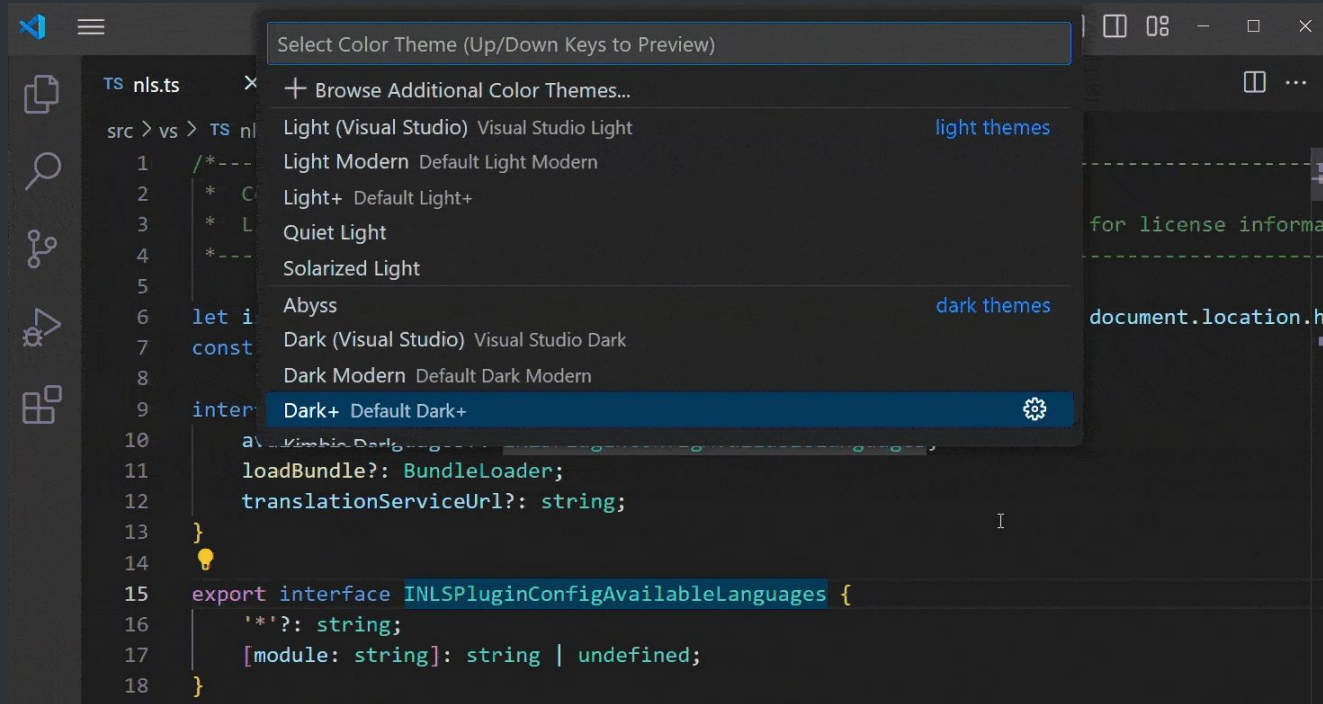
Ctrl + ñ

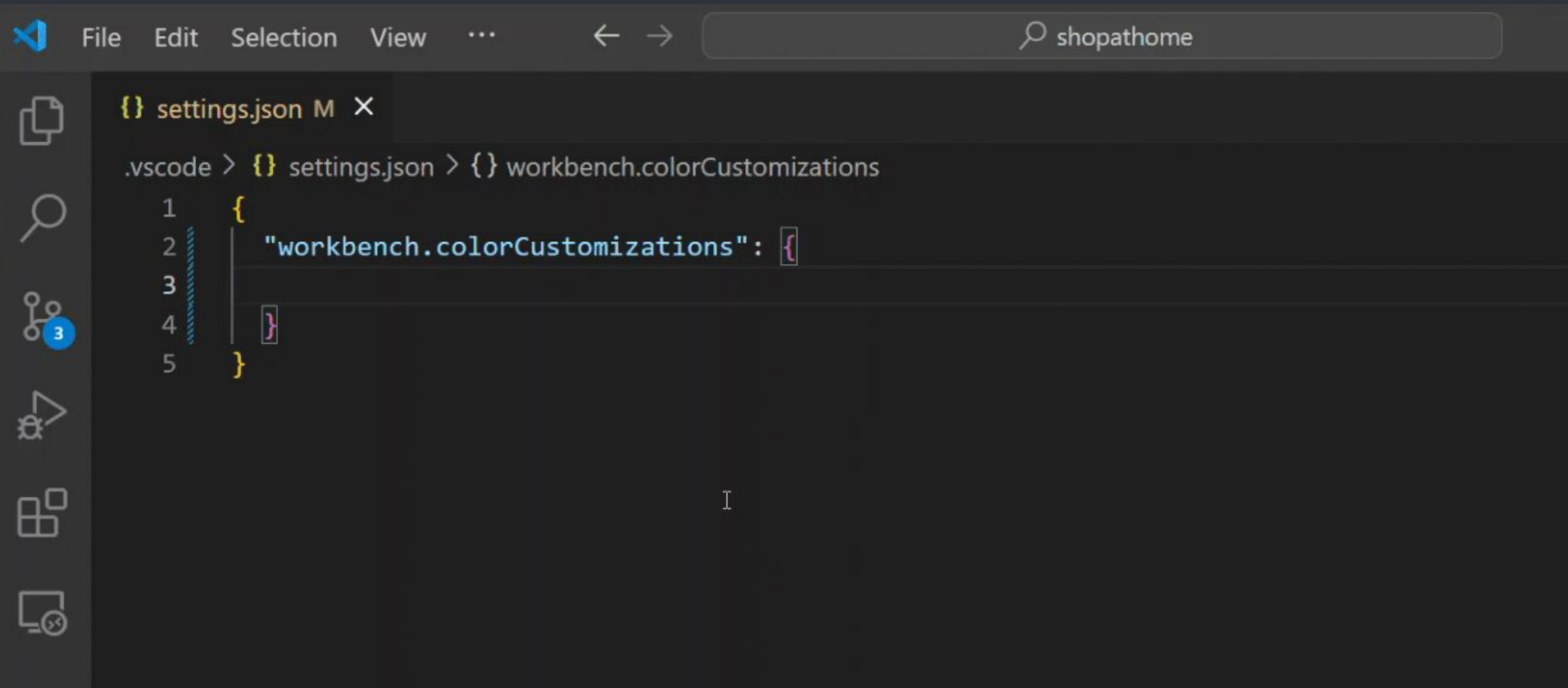
F11

Ctrl + ,



# Temas del Espacio de Trabajo





# Mediante Extensiones

Lenguajes

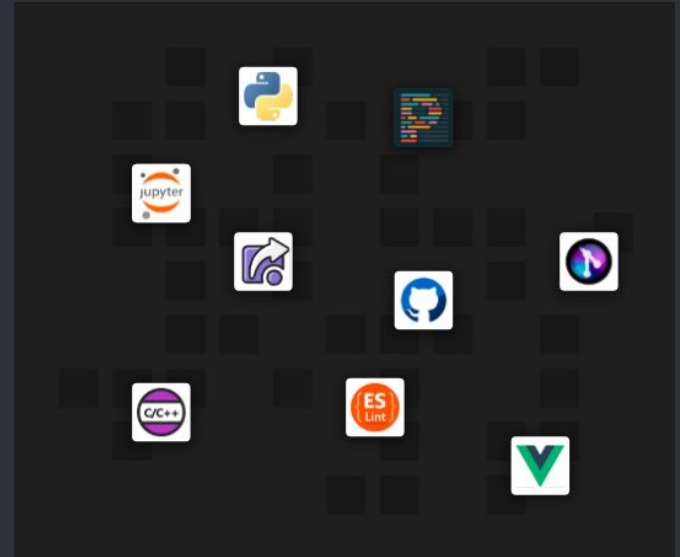
Phython, JavaScript, Java...

Herramientas

Prettier, GitLens...

Integraciones

Docker, Kubernetes, Azure...









# Atajos de Teclado

Type to search in keybindings		
Command	Keybinding	When
Accept Inline Completion	Ctrl + G	accessibleViewIsShown && accessibleViewCurrentProviderId == 'inline'
Accept Inline Suggestion	Tab	inlineEditIsVisible && tabShouldAcceptInlineEdit && !editorHoverFocus
Accept Next Word Of Inline Suggestion	Ctrl + RightArrow	inlineSuggestionVisible && !editorReadOnly
Accessible Diff Viewer: Go to Next Difference	F7	isInDiffEditor
Accessible Diff Viewer: Go to Previous Difference	Shift + F7	isInDiffEditor
Add Cursor Above	Ctrl + Alt + UpArrow	editorTextFocus
Add Cursor Below	Ctrl + Alt + DownArrow	editorTextFocus
Add Cursors to Line Ends	Shift + Alt + I	editorTextFocus
Add Line Comment	Ctrl + K, Ctrl + C	editorTextFocus && !editorReadOnly
Add Selection To Next Find Match	Ctrl + D	editorFocus
Auto Fix...	Shift + Alt + .	textInputFocus && !editorReadOnly && supportedCodeAction =~ /(\/s ^\)
Calls: Show Call Hierarchy	Shift + Alt + H	editorHasCallHierarchyProvider
Cancel Selection Anchor	Escape	editorTextFocus && selectionAnchorSet
Change All Occurrences	Ctrl + F2	editorTextFocus && !editorReadOnly
Change Language Mode	Ctrl + K, M	!notebookEditorFocused
Chat: Accept Chat Edit	Ctrl + Enter	chat.hasEditorModifications && editorFocus && hasUndecidedChatEditi
Chat: Apply in Editor	Ctrl + Enter	accessibleViewInCodeBlock && chatIsEnabled    chatIsEnabled && inCh
Chat: Discard Chat Edit	Ctrl + Backspace	chat.hasEditorModifications && editorFocus && hasUndecidedChatEditi

EXTENSIONS: MARKETPLACE

@recommended:keymaps

- 
**Vim** 7.2M ★ 4  
 Vim emulation for Visual Studio Code  
 vscodevim [Install](#)
- 
**Sublime Text Keymap a...** 2.2M ★ 5  
 Import Sublime Text settings and keyb...  
 Microsoft [Install](#)
- 
**Notepad++ keymap** 1.9M ★ 4.5  
 Popular Notepad++ keybindings for ...  
 Microsoft [Install](#)
- 
**IntelliJ IDEA Keybindings** 1.9M ★ 5  
 Port of IntelliJ IDEA Keybindings, inclu...  
 Keisuke Kato [Install](#)
- 
**Atom Keymap** 1.1M ★ 5  
 Popular Atom keybindings for Visual S...  
 Microsoft [Install](#)
- 
**Eclipse Keymap** 793K ★ 5  
 Eclipse keybindings for Visual Studio ...  
 Alphabot Security [Install](#)

# Tasks y Snippets

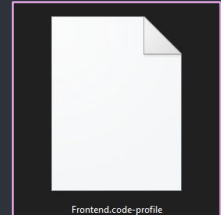
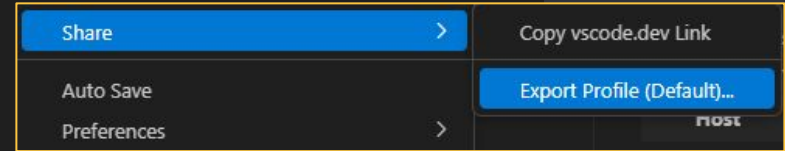
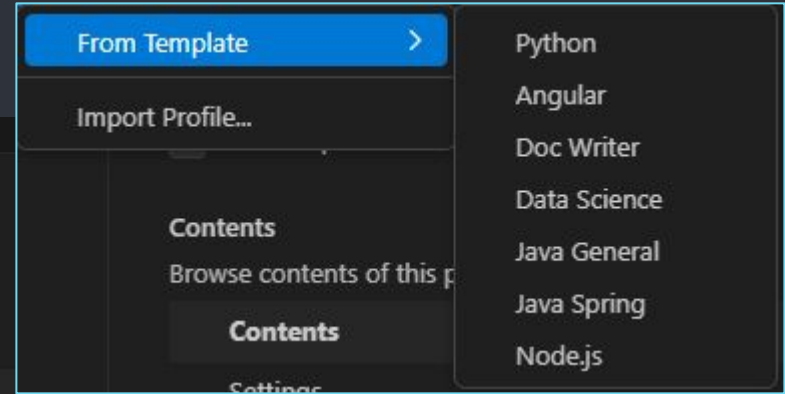
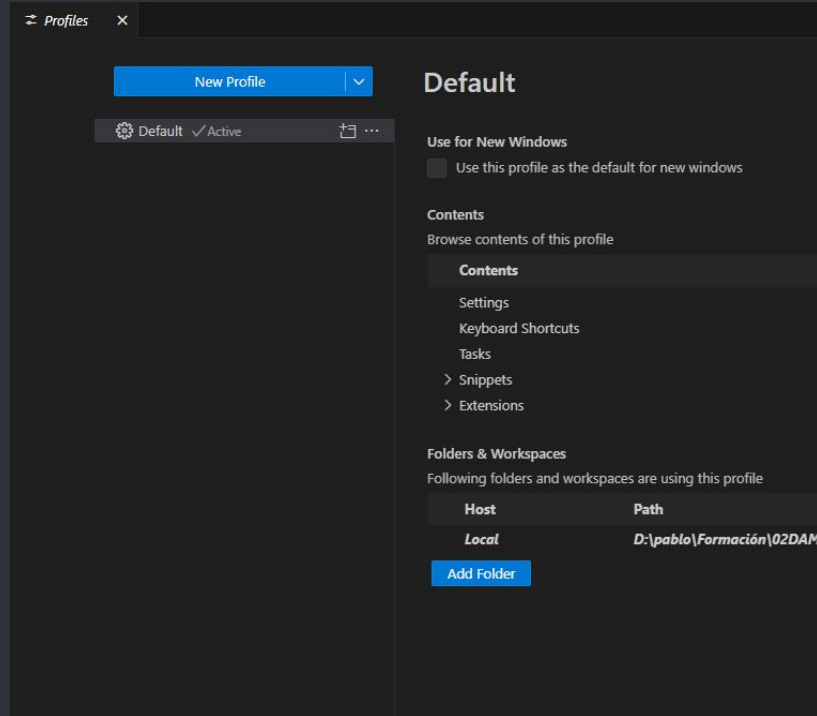
## Estructura de un Task

```
C: > Users > Propietario > AppData > Roaming > Code > User > {} tasks.json > ...
1  {
2      "version": "2.0.0",
3      "tasks": [
4          {
5              "label": "Compilar C++",
6              "type": "shell",
7              "command": "g++",
8              "args": ["-o", "main", "main.cpp"],
9              "group": {
10                 "kind": "build",
11                 "isDefault": true
12             }
13         }
14     ]
15 }
```

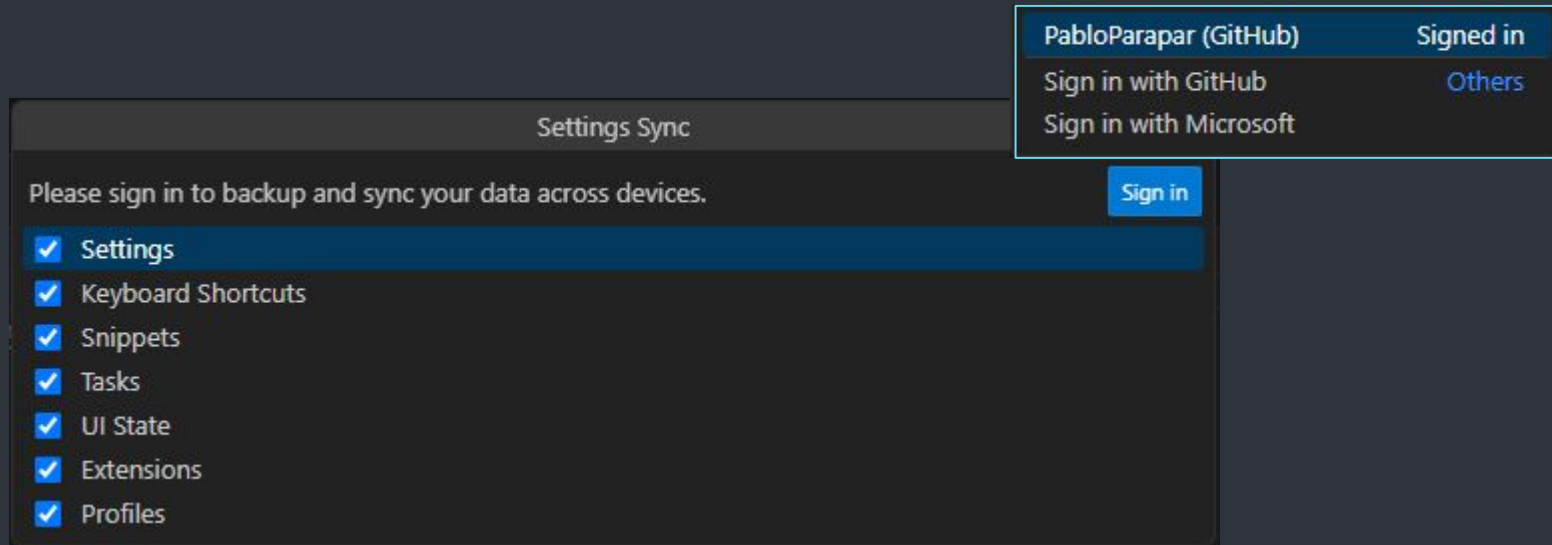
## Estructura de un Snippet

```
> ≡ snippets.code-snippets > ...
{
    "For Loop": {
        "prefix": "forjs",
        "body": [
            "for (let ${1:i} = 0; ${1:i} < ${2:array}.length; ${1:i}++) {",
            "    console.log(${2:array}[${1:i}]);",
            "}"
        ],
        "description": "Estructura básica de un bucle for en JavaScript"
    }
}
```

# Perfiles

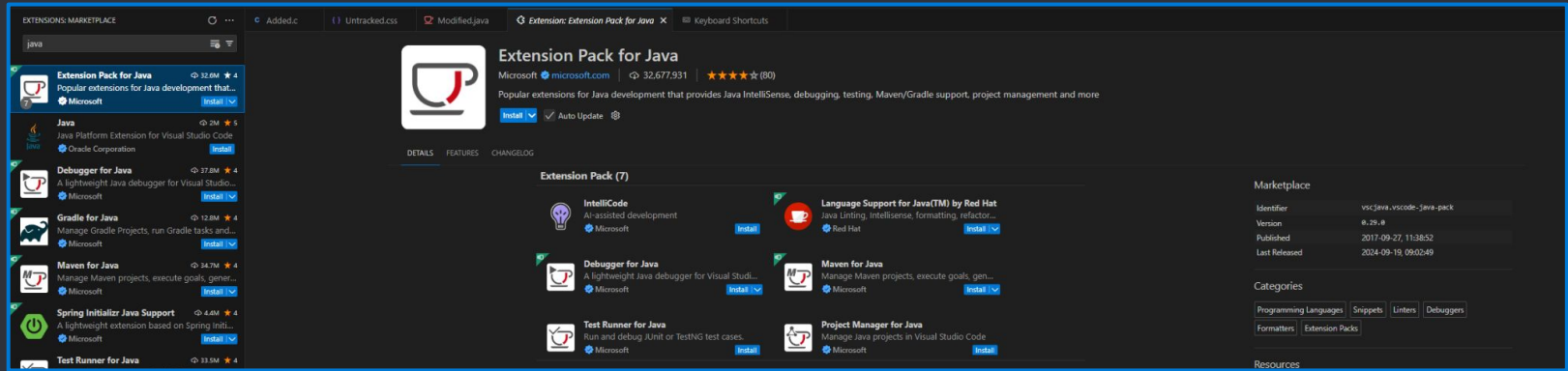


# Sync. Configuración



# Configuración de un proyecto Java

## 1. Extensiones necesarias

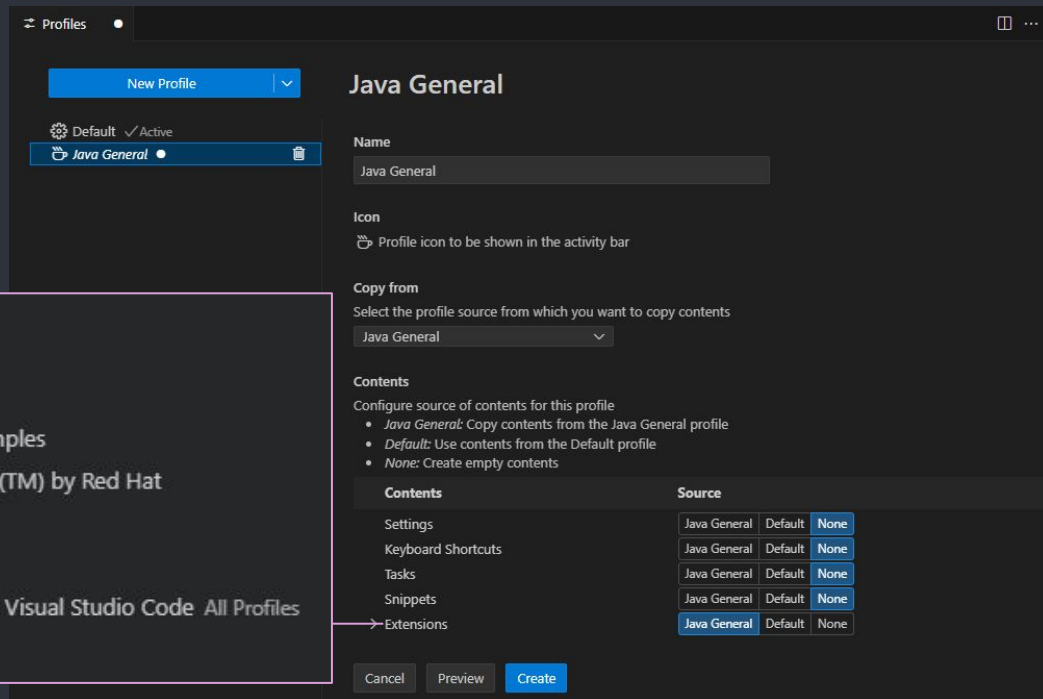




# Configuración de un proyecto Java

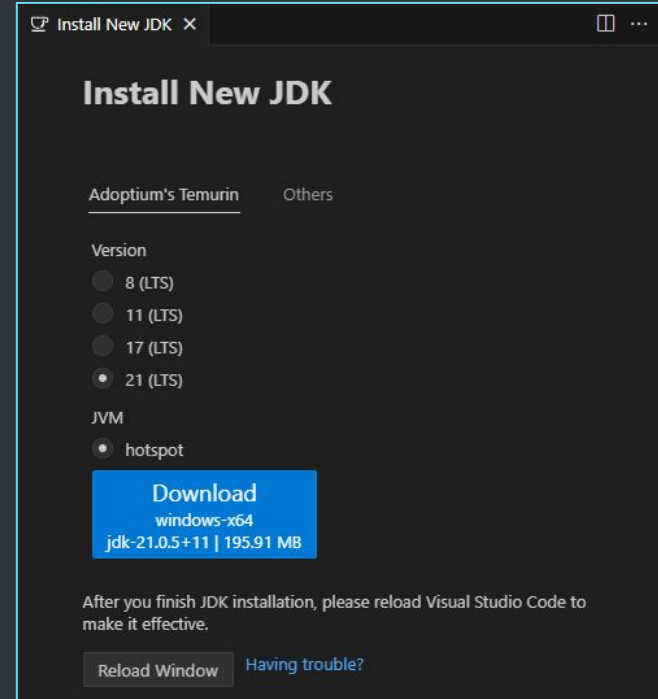
0 crear un  
Perfil con la  
plantilla de  
"Java General"

Debugger for Java  
Extension Pack for Java  
IntelliCode  
IntelliCode API Usage Examples  
Language Support for Java(TM) by Red Hat  
Maven for Java  
Project Manager for Java  
Spanish Language Pack for Visual Studio Code All Profiles  
Test Runner for Java



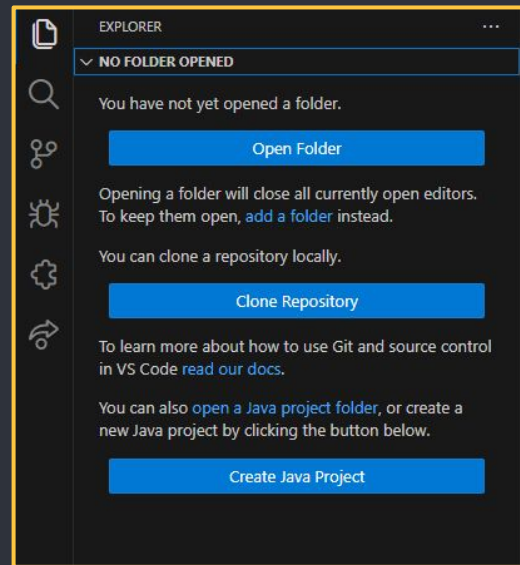
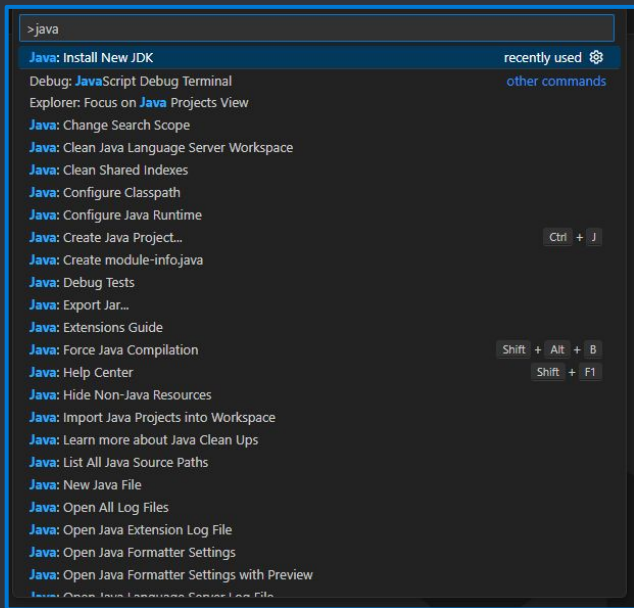
# Configuración de un proyecto Java

## 2. Instalar el JDK



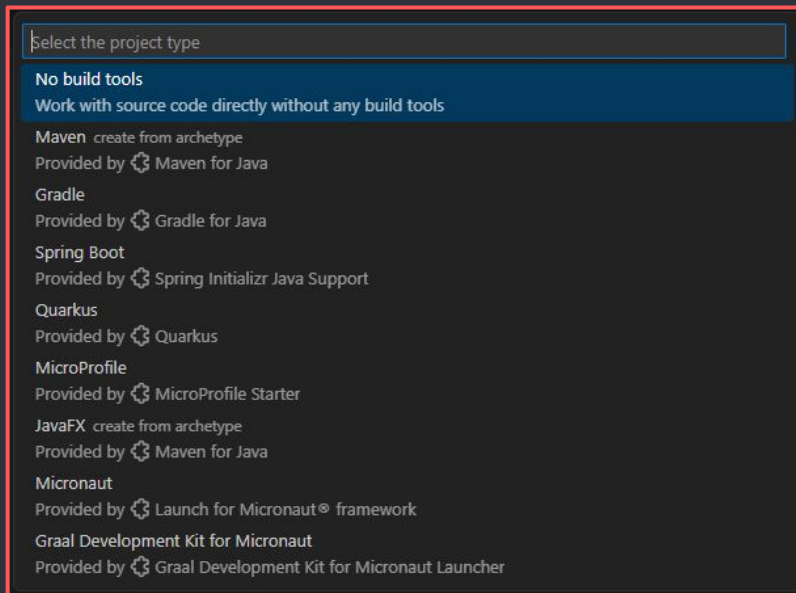
# Configuración de un proyecto Java

## 2. Crear un proyecto Java

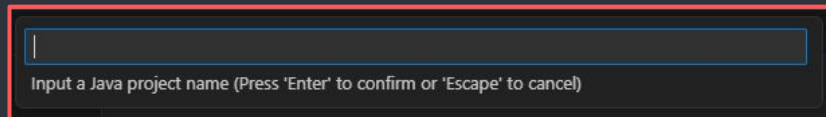


# Configuración de un proyecto Java

## 2. Crear un proyecto Java

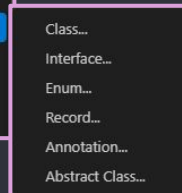
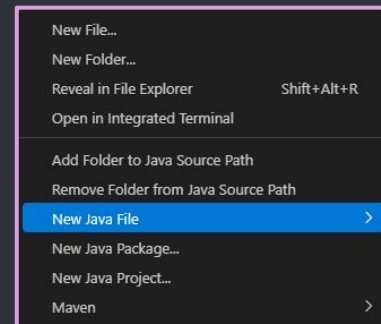
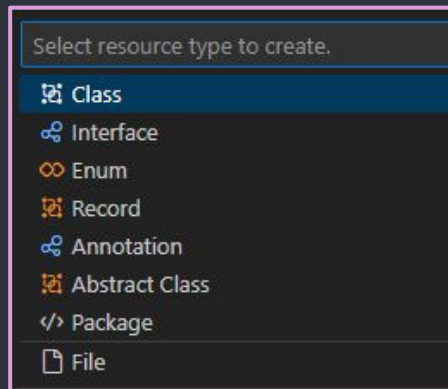
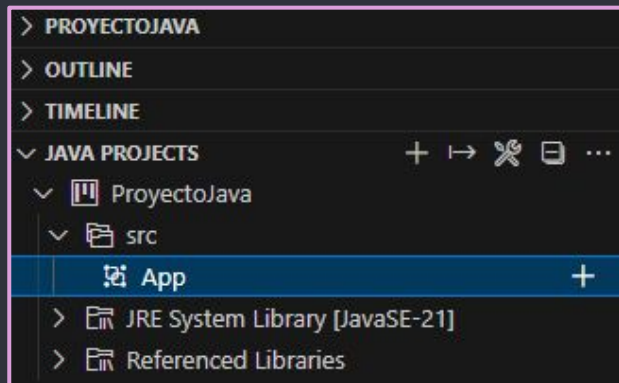
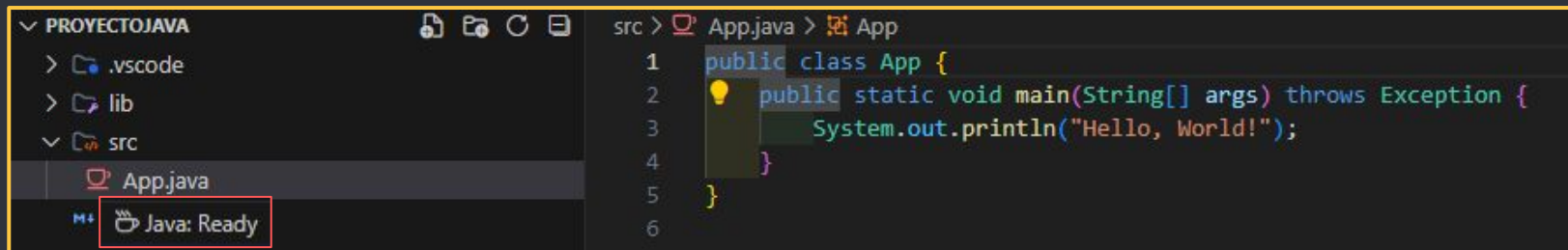


Seleccionar la carpeta en  
donde se va a guardar el  
proyecto Java



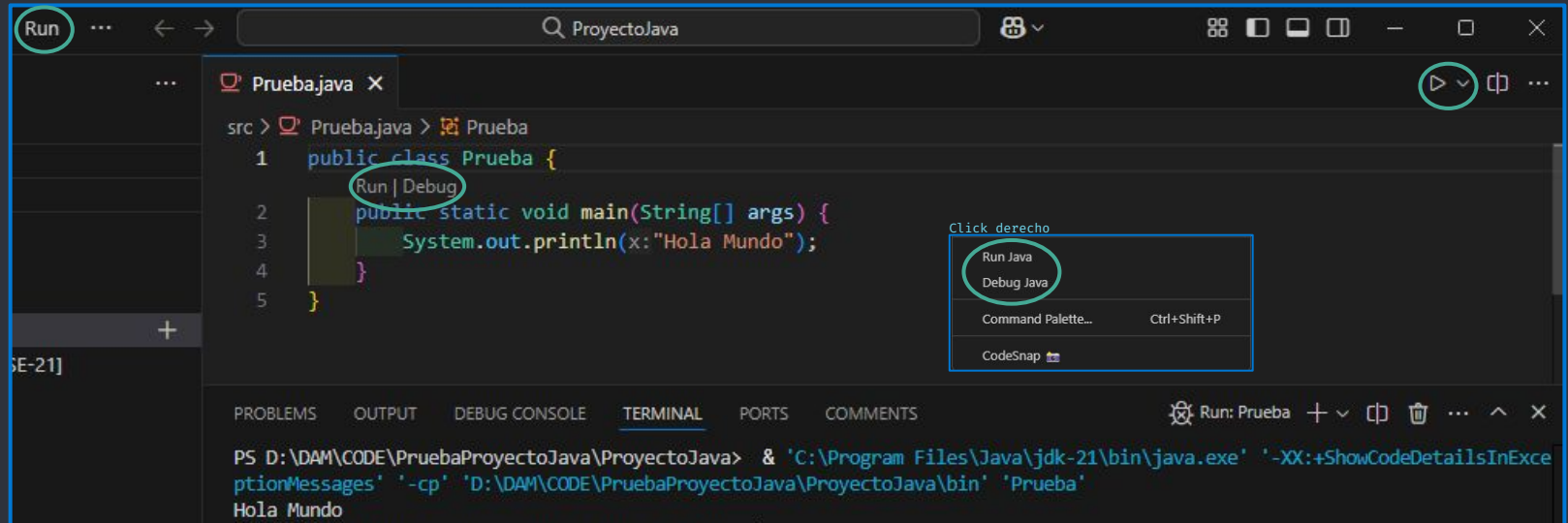
# Configuración de un proyecto Java

## 3. Configurar el proyecto Java



# Configuración de un proyecto Java

## 4. Ejecutar el proyecto Java



# Integración con Git

## 1. Clonar repositorio



Install Git, a popular source control system, to track code changes and collaborate with others. Learn more in our [Git guides](#).

Download Git for Windows

After installing, please [reload](#) (or [troubleshoot](#)). Additional source control providers can be installed [from the Marketplace](#).



In order to use Git features, you can open a folder containing a Git repository or clone from a URL.

Open Folder

Clone Repository

To learn more about how to use Git



Provide repository URL or pick a repository source.

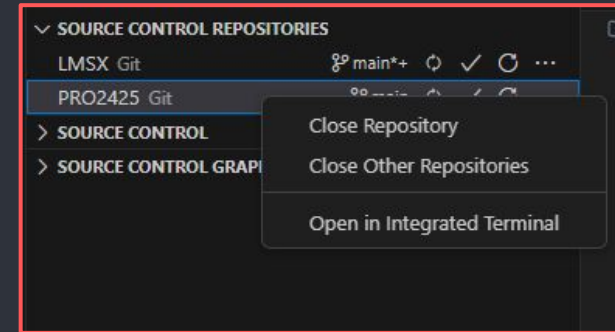
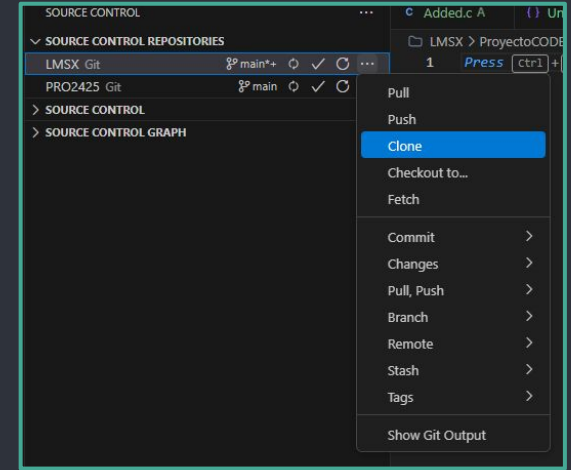
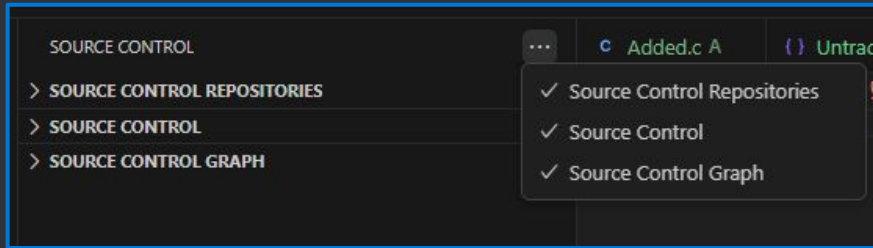


Clone from GitHub

remote sources

# Integración con Git

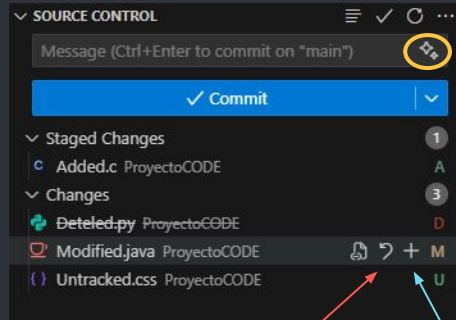
## 2. Añadir y eliminar repositorios





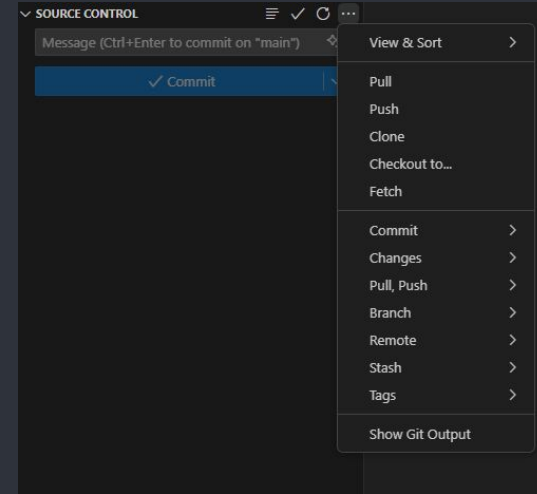
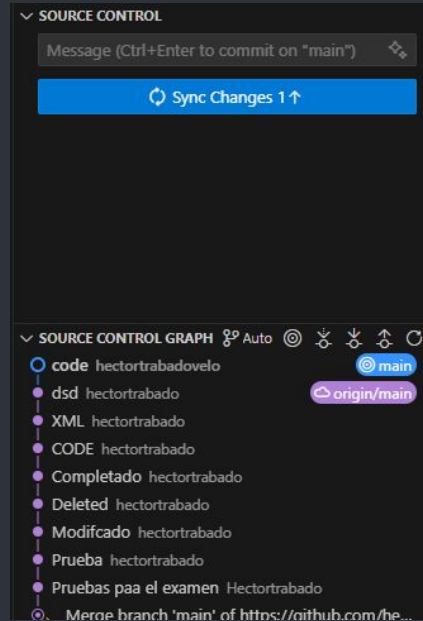
# Integración con Git

## 3. Subir cambios



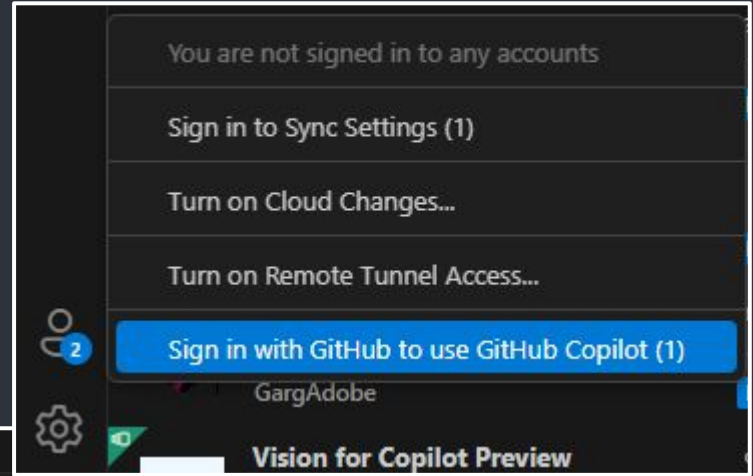
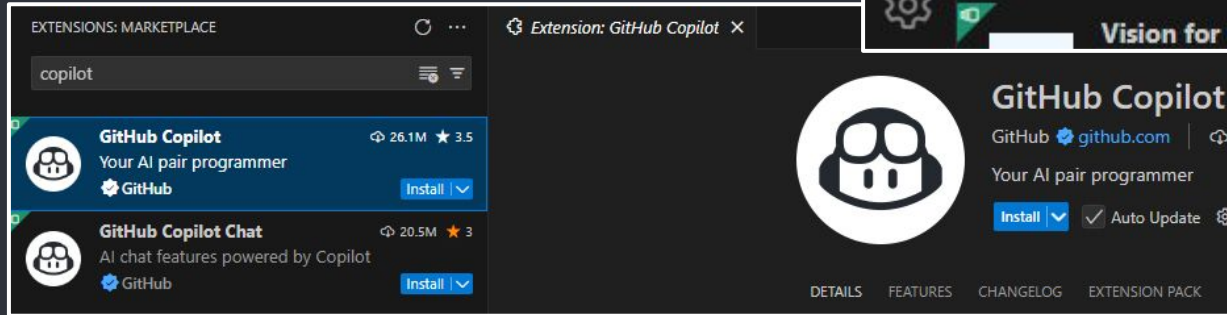
Revertir  
cambios

Stage



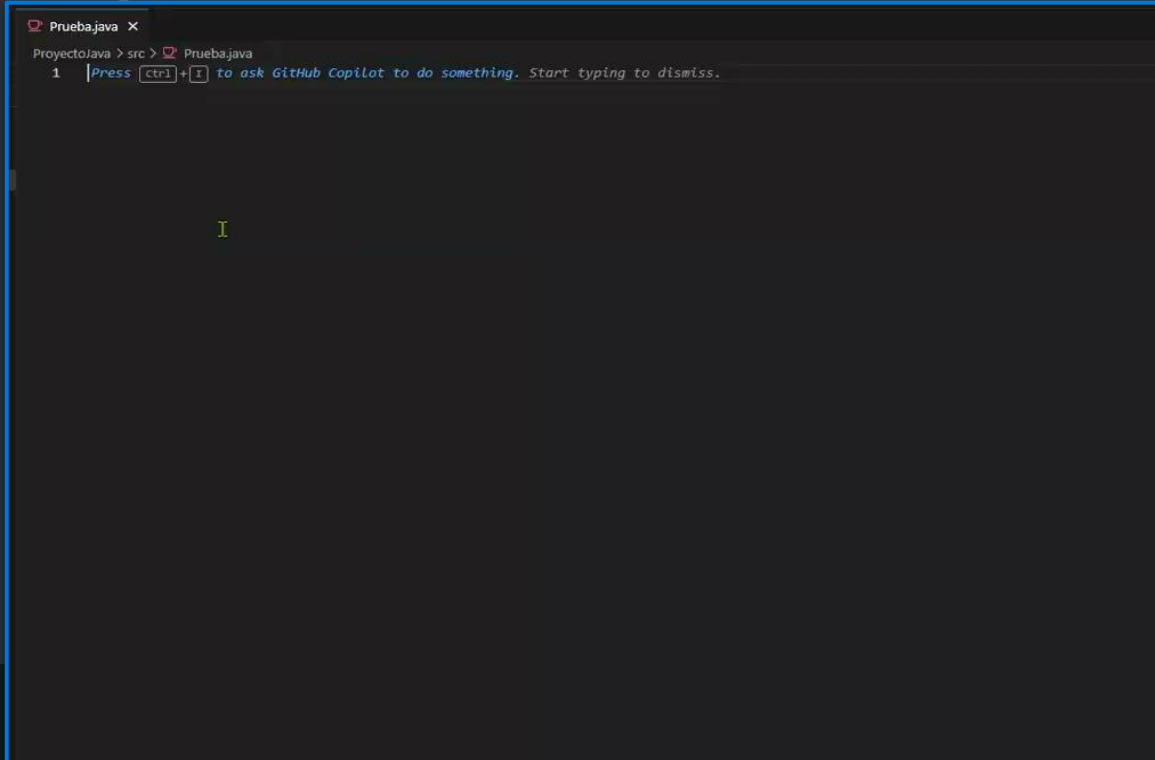
# Integración de GitHub Copilot

## 1. Añadir extensión



# Integración de GitHub Copilot

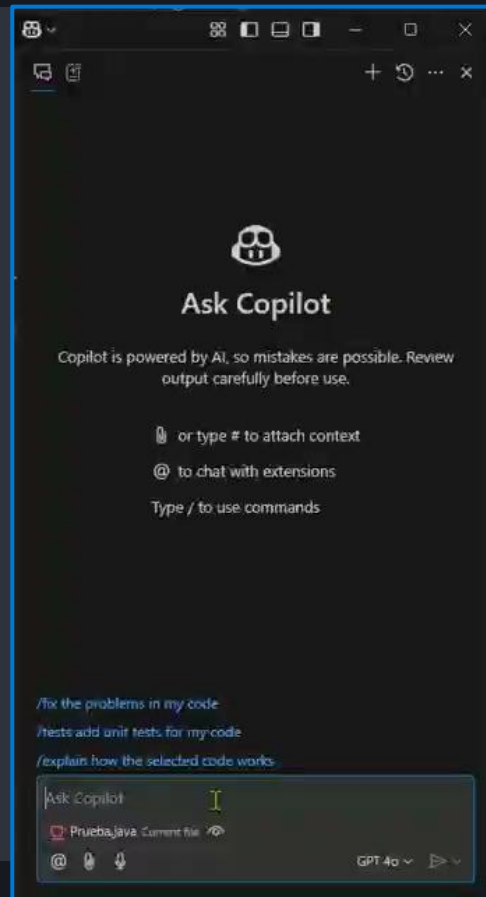
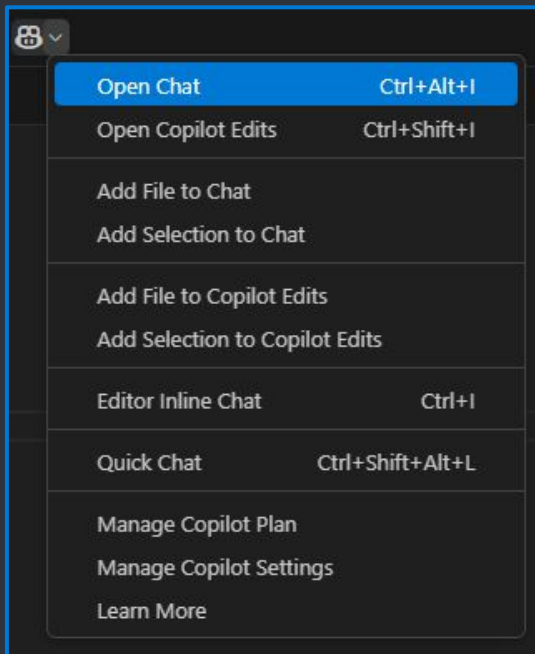
## 1. ¿Cómo se usa?



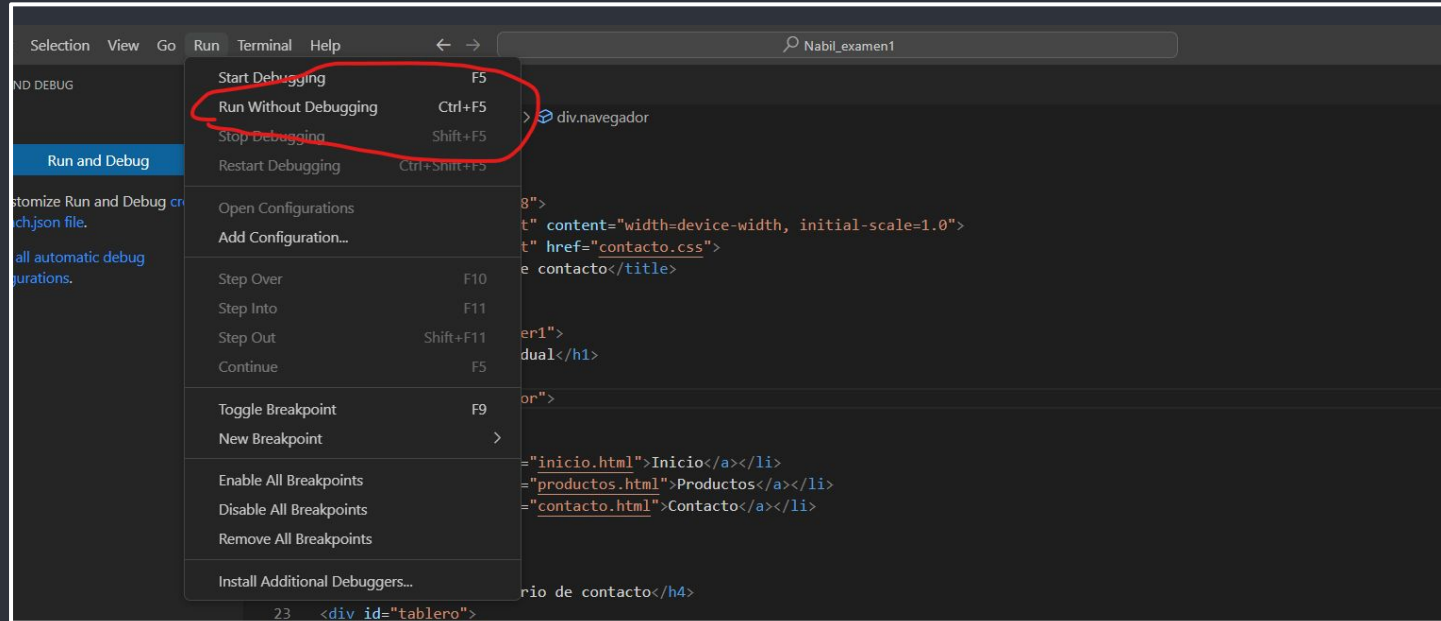
```
1 public class Prueba {  
2 |  
3     Run | Debug  
4     public static void main(String[] args) {  
5         System.out.println("Hola Mundo");  
6     }  
7 }
```

# Integración de GitHub Copilot

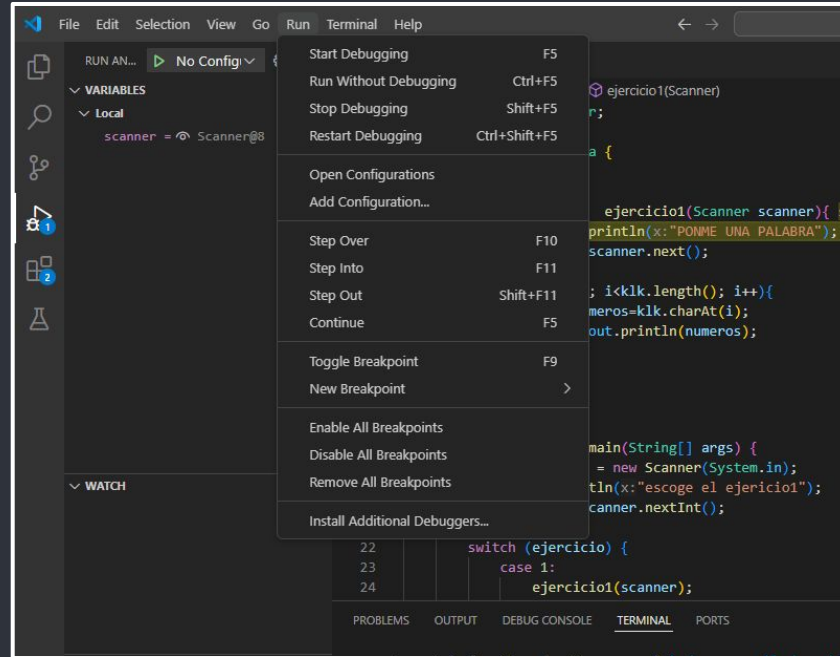
## 2. ¿Cómo se usa?



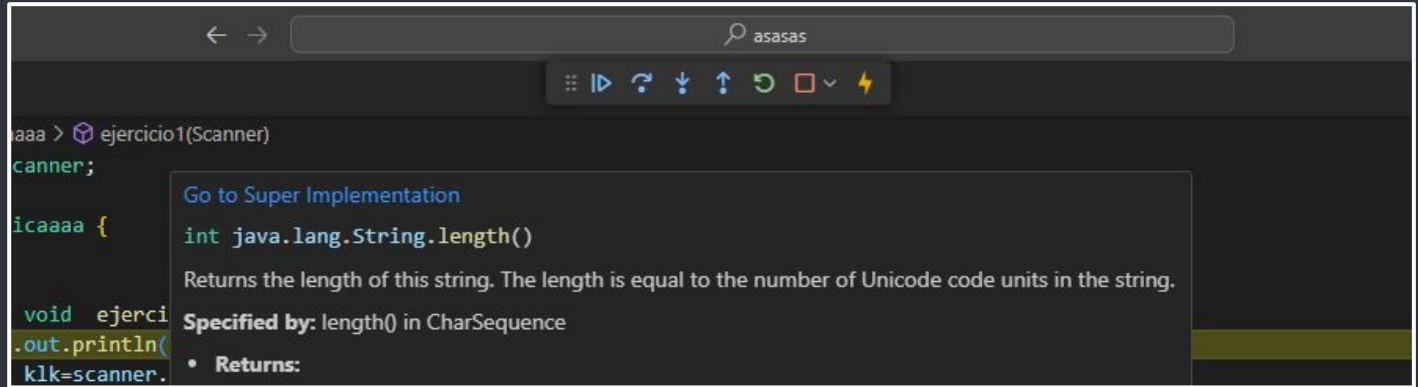
## Ejecución de código, debug y visualización de variables{



debug{

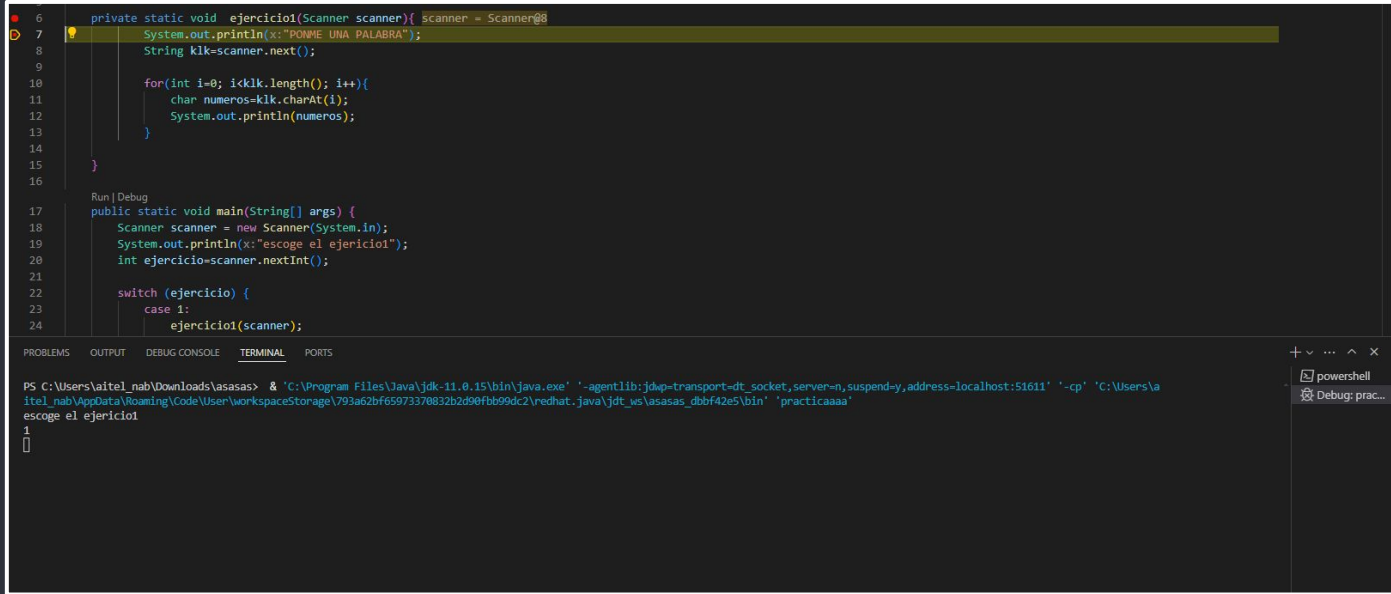


debug{



}

debug{



The screenshot shows an IDE with a Java file named Debug.java. The code defines a Scanner object and a method to process a string. The terminal window shows the command to run the program with debugging options, and the output shows the program's execution.

```
6 private static void ejercicio1(Scanner scanner){ scanner = Scanner@
7     System.out.println(x:"PONME UNA PALABRA");
8     String klk=scanner.next();
9
10    for(int i=0; i<klk.length(); i++){
11        char numeros=klk.charAt(i);
12        System.out.println(numeros);
13    }
14
15 }
16
17 Run | Debug
18 public static void main(String[] args) {
19     Scanner scanner = new Scanner(System.in);
20     System.out.println(x:"escoge el ejercicio");
21     int ejercicio=scanner.nextInt();
22
23     switch (ejercicio) {
24         case 1:
25             ejercicio1(scanner);
26     }
```

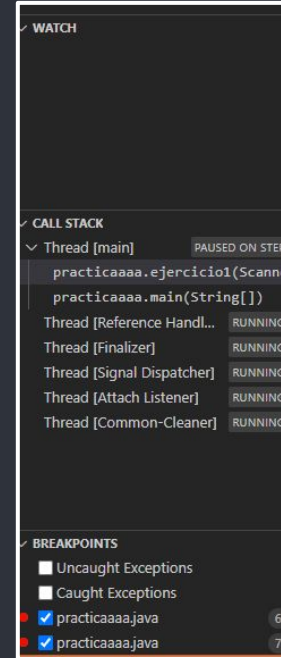
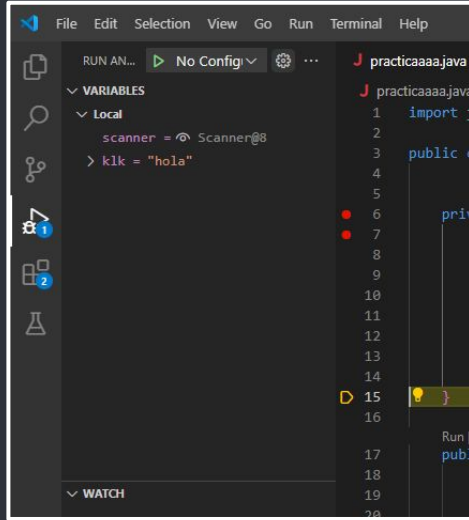
Terminal Output:

```
PS C:\Users\aitel_nab\Downloads\asasas> & 'C:\Program Files\Java\jdk-11.0.15\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:51611' '-cp' 'C:\Users\aitel_nab\AppData\Roaming\Code\User\workspaceStorage1\793a62bf65973370832b2d9efbb99dc2\redhat.java\jdk_ws\asasas_dbbf42e5\bin' 'practicaaaa'
escoge el ejercicio
1
[]
```



Debug.java

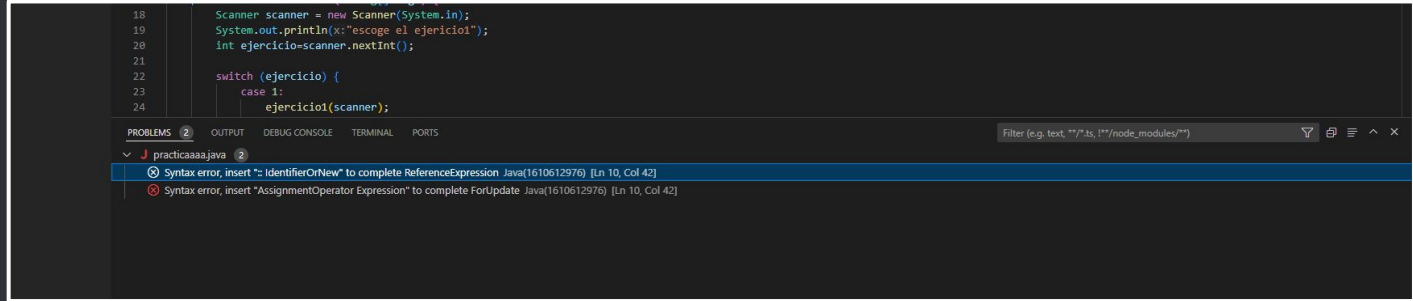
debug{



Programming Language

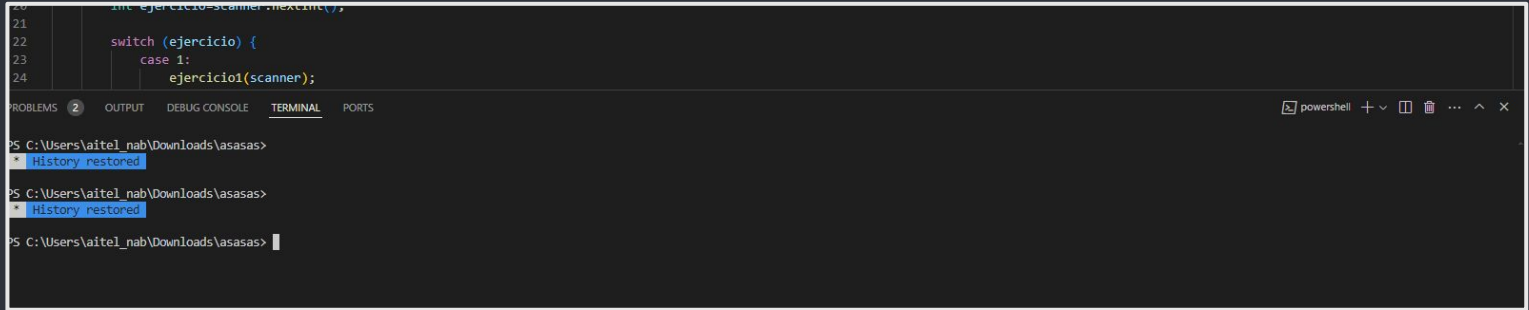
Debug.java

debug{



The screenshot shows an IDE window with a Java file named 'practicaaa.java'. The code contains a switch statement with a case that has a syntax error. The error message in the PROBLEMS pane states: 'Syntax error, insert ";" IdentifierOrNew" to complete ReferenceExpression Java(1610612976) [Ln 10, Col 42]'. The code snippet is as follows:

```
18 Scanner scanner = new Scanner(System.in);
19 System.out.println(x:"escoge el ejercicio!");
20 int ejercicio=scanner.nextInt();
21
22 switch (ejercicio) {
23     case 1:
24         ejercicio1(scanner);
25 }
```



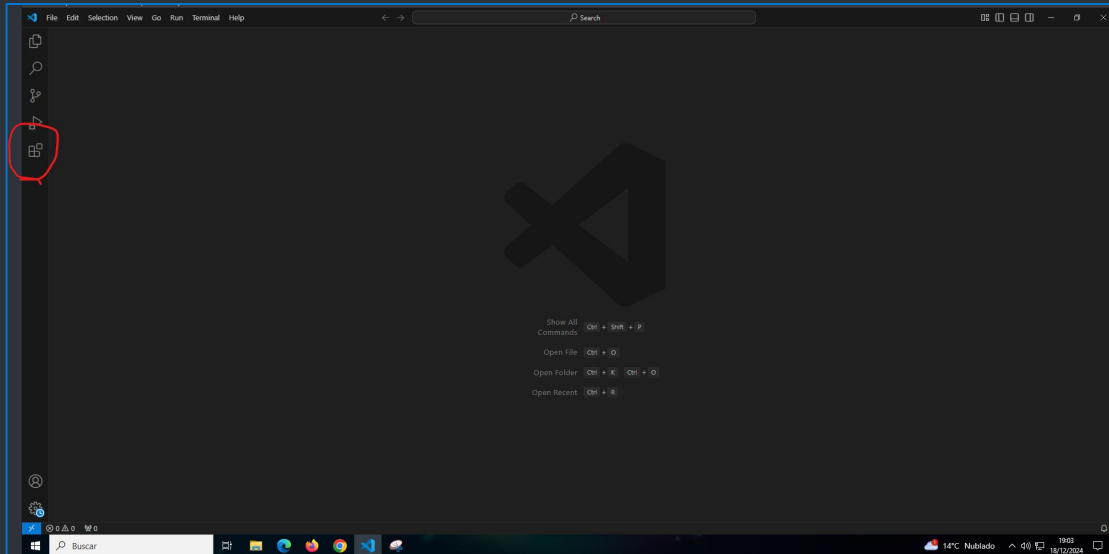
The screenshot shows a PowerShell terminal window with the following commands and output:

```
PS C:\Users\laila_nab\Downloads\asasas>
* History restored
PS C:\Users\laila_nab\Downloads\asasas>
* History restored
PS C:\Users\laila_nab\Downloads\asasas> |
```

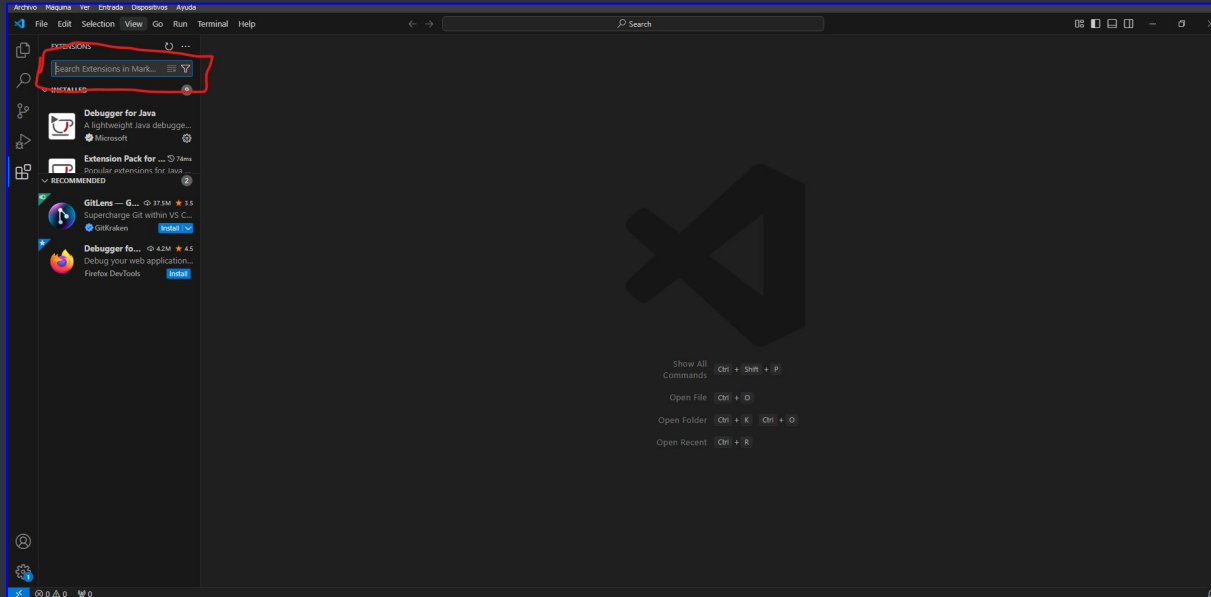
}

Programming Language

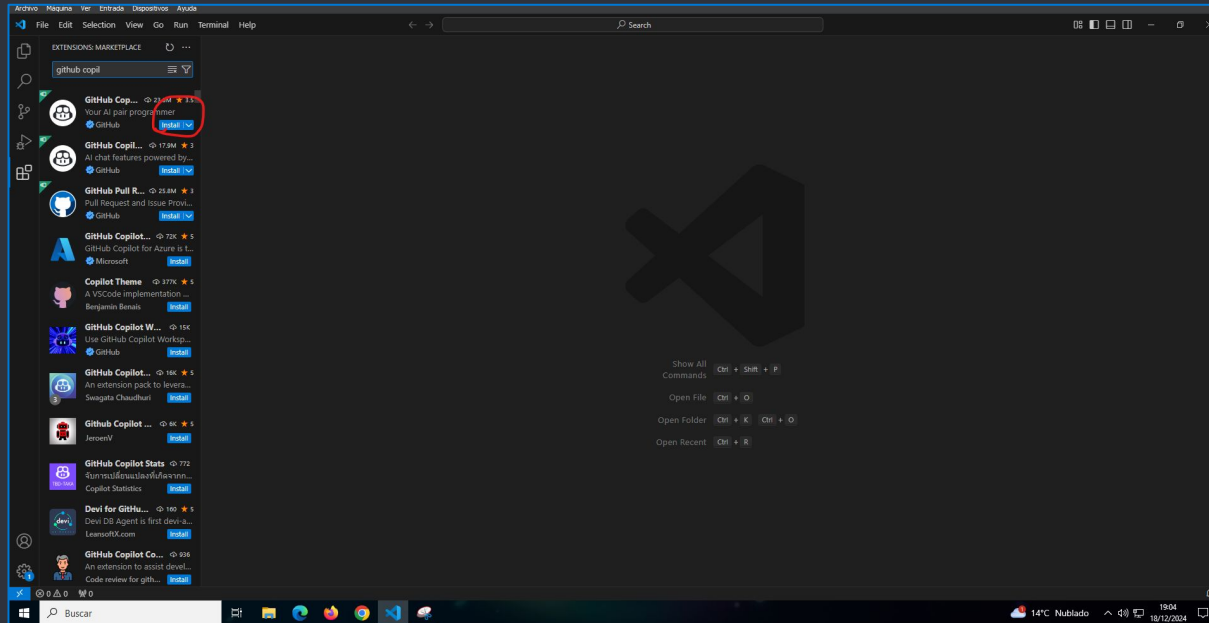
# Como se instala una extensión?



# Como se instala una extensión?






## Como se instala una extensión?



# Top 10 mejores extensiones para vsc




## Prettier - Code formatter

Prettier  [prettier.io](https://prettier.io) |  53,013,069 | ★★★★★ (470) |  Sponsor

Code formatter using prettier


Disable

Uninstall

✓ Auto Update 

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
# Top 10 mejores extensiones para vsc



## Live Server

Ritwick Dey | 58,541,881 | ★★★★★

Launch a development local Server with live reload feature for static & dynamic pages

[Uninstall](#) ☒ Auto Update 

```
<link rel="icon" href="/img/450-1000.jpg" />
<title>CARS</title>
</head>
<body>
  <header><h1>OUR CARS</h1></header>
  <div class="tabla">
    <ul>
      <li><a href="index.html">INICIO</a></li>      "INICIO": Unknown word.
      <li><a href="coches.html">COCHES</a></li>    "COCHES": Unknown word.
      <li><a href="nosotros.html">SOBRE NOSOTROS</a></li>  "SOBRE": Unknown word.
      <li><a href="contacto.html">CONTACTANOS</a></li>  "CONTACTANOS": Unknown word.
    </ul>
  </div>
  <p class="frase">Just do it</p>
  <main>
    
    
  </main>
</body>
</html>
```

## Top 10 mejores extensiones para vsc



### GitLens — Git supercharged

GitKraken [gitkraken.com](https://gitkraken.com) | 38,142,918 | ★★★★★ (841)

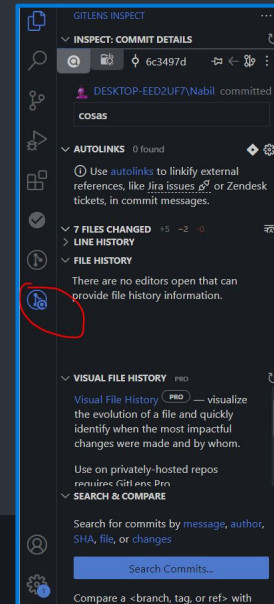
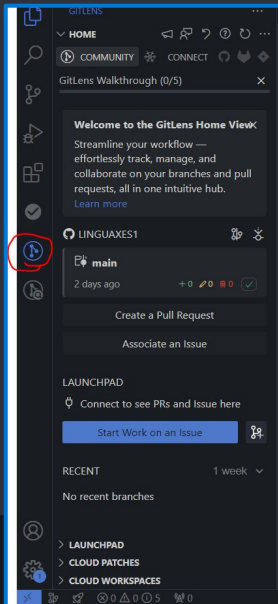
Supercharge Git within VS Code — Visualize code authorship at a glance via Git blame annotations and CodeLe...

Disable

Uninstall

Switch to Pre-Release Version

✓ Auto Update ⚙





# Top 10 mejores extensiones para vsc



## IntelliCode

Microsoft [microsoft.com](https://microsoft.com)

50,877,684

★★★★☆ (97)

AI-assisted development

Install

✓ Auto Update

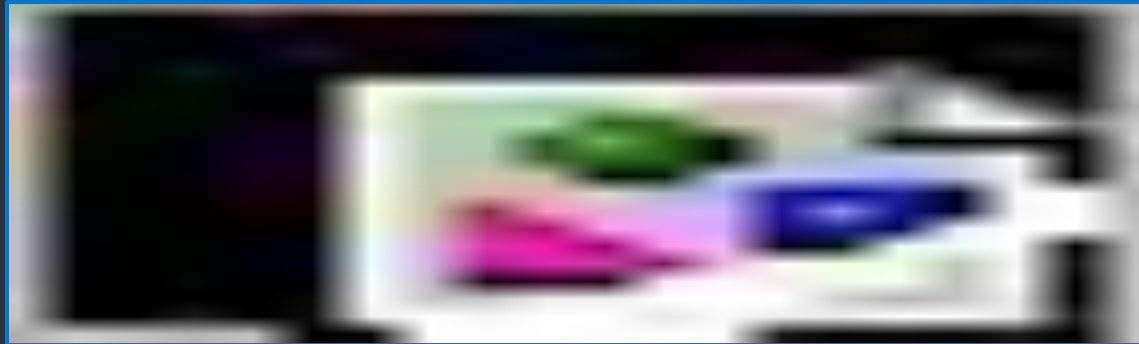


DETAILS

FEATURES

CHANGELOG

EXTENSION PACK



# Top 10 mejores extensiones para vsc



## GitHub Copilot

GitHub [github.com](https://github.com) | 26,077,151 | ★★★★★ (1126)

Your AI pair programmer

Enable

Uninstall

Switch to Pre-Release Version

✓ Auto Update



This extension is disabled globally by the user.

## Cuéntame un chiste sobre programación



GitHub Copilot

Used 1 reference >

Como asistente de programación AI, mi enfoque principal es ayudar con temas de desarrollo de software. Sin embargo, aquí tienes un chiste relacionado con la programación:

¿Por qué los programadores siempre mezclan Navidad con Halloween?

Porque Oct 31 == Dec 25.

```
1 function checkemail(email) {  
    var re = /\S+@\S+\.\S+;/;  
    return re.test(email);  
}
```

## Cuéntame un chiste



GitHub Copilot

Used 1 reference >

Sorry, but I can only assist with programming related questions.

# Top 10 mejores extensiones para vsc



## Docker

Microsoft  [microsoft.com](https://microsoft.com)

 40,970,158

     (95)

Makes it easy to create, manage, and debug containerized applications.

Install



Auto Update



# Top 10 mejores extensiones para vsc



## Extension Pack for Java

Microsoft [microsoft.com](https://microsoft.com) | 32,646,520 | ★★★★★ (80)

Popular extensions for Java development that provides Java IntelliSense, debugging, testing, Maven/Gradle sup...

Installing



Auto Update



# Top 10 mejores extensiones para vsc



## Error Lens

Alexander | 5,680,076 | ★★★★★ (173)

Improve highlighting of errors, warnings and other language diagnostics.

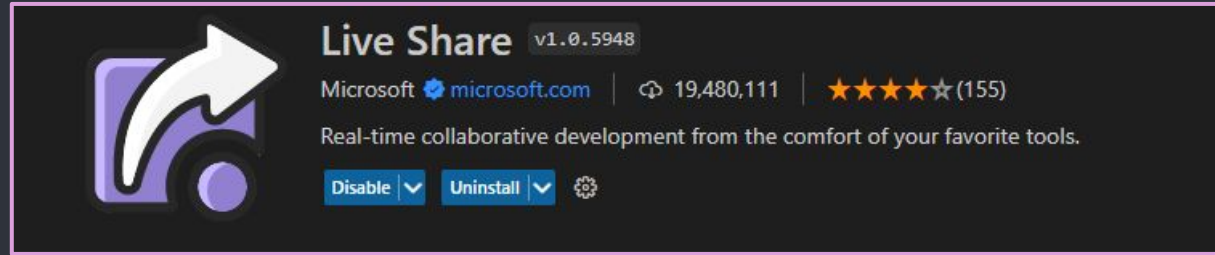
Disable

Uninstall

✓ Auto Update



# Top 10 mejores extensiones para vsc



**Live Share** v1.0.5948  
Microsoft [microsoft.com](#) | 19,480,111 | ★★★★★ (155)  
Real-time collaborative development from the comfort of your favorite tools.  
Disable | Uninstall | ⚙️

LIVE SHARE: SESSION DETAILS

Start collaboratively editing and debugging with others in real-time.

Share (Read/Write)

Share (Read-Only)

Join

SESSION DETAILS

Participants (0) Copy Collaboration Link

Invite participants...

Shared Terminals (1)

pwsh (Read-only)

Shared Servers (1)

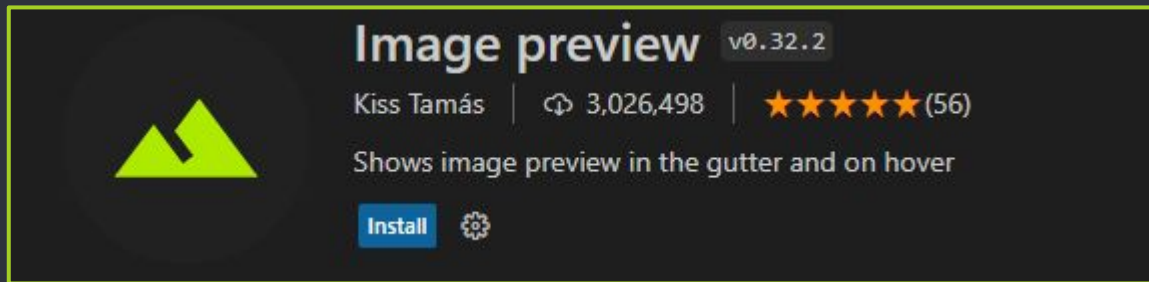
localhost:4000

Comments (0)

Session chat

<https://prod.liveshare.vsengsaas.visualstudio.com/join?43C349A9C9AE134C0987872279C54DF88718>

# Top 10 mejores extensiones para vsc



PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

COMMENTS

```
PS D:\DAM\CODE> Exception in thread "main" java.lang.EndOfPresentationException: Slide content  
has reached its limit at Presentation.main(Presentation.java:56)
```