

CSS

FLEXBOX & CSS GRID

GETTING STARTED

# Environment setup



**IN A ROCKET**

Learn front-end development at *rocket speed*

**EDITOR**

**+**

**BROWSER**

**+**

**DEV TOOLS**

# ENVIRONMENT SETUP: EDITOR

## Editor: pre-installed

You can just use any text editor preinstalled in your computer.



Notepad



TextEdit



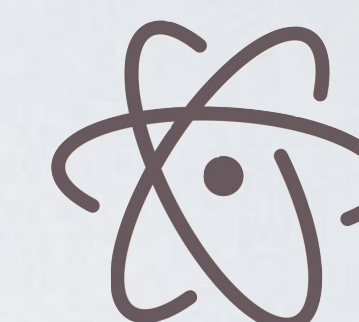
Gedit



Sublime Text



VS Code



Atom



## Editor: additional

There are more advanced editors to code. We will use VS Code for this course.

You can use any editor to develop Flexbox and CSS Grid projects. We suggest using VS Code in this workshop as it includes Emmet out-of-the-box. It makes easier to build HTML and be more focused on your CSS.



**EDITOR**

**+**

**BROWSER**

**+**

**DEV TOOLS**

# ENVIRONMENT SETUP: BROWSER

## Browser: pre-installed

You can just use any preinstalled browser in your computer.



Edge



Safari



Firefox



Chrome



Firefox



Opera



## Browser: additional

There are other browsers that you can also install in your computer.

Most used browser worldwide.  
Source: [StatCounter](#).



We will use its  
[Grid Inspector](#) tool  
when creating layouts.



# FIREFOX: CSS GRID INSPECTOR

The screenshot displays the Firefox DevTools interface with the CSS Grid Inspector overlay. The browser window shows a page titled "cssgrid-demo\_firefox.html" with a grid layout. The grid has four columns and three rows. The columns are numbered 1, 2, 3, and 4 from left to right. The rows are numbered 1, 2, and 3 from top to bottom. The grid areas are labeled 'h' (Header), 'n' (Nav), 'm' (Main), and 'f' (Footer). The Inspector shows the HTML structure and the CSS Grid settings for the selected container.

**Inspector HTML:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
  </head>
  <body>
    <h3>Flexbox</h3>
    <div class="container container--flexbox">
      <div class="item1">Item 1</div>
      <div class="item2">Item 2</div>
      <div class="item3">Item 3</div>
    </div>
    <h3>CSS grid</h3>
    <div class="container container--grid">
      <div class="header">Header</div>
      <div class="nav">Nav</div>
      <div class="main">Main</div>
      <div class="footer">Footer</div>
    </div>
  </body>
</html>
```

**Inspector CSS:**

```
element {
  box-sizing: border-box;
  font-family: arial, helvetica, sans-serif;
  font-size: 1.1rem;
}
```

**Inspector Grid Settings:**

- Overlay Grid:  div.container.container--grid
- Grid Display Settings:
  - Display line numbers
  - Display area names
  - Extend lines infinitely

# CHROME: CSS GRID INSPECTOR

**Flexbox**

Item1 Item2 Item3

**CSS grid**

1 1fr-292px 2 1fr-292px 3 1fr-292px 4

25px header -4  
25px nav -3  
25px footer -2  
-1

Elements Console Sources Network Performance Memory Application Security Lighthouse

```
<!DOCTYPE html>
<html lang="en">
  <head>...</head>
  <body> == $0
    <h3>Flexbox</h3>
    <div class="container container--flexbox">...</div>
    <h3>CSS grid</h3>
    <div class="container container--grid">...</div> grid
  </body>
</html>
```

Styles Layout Event Listeners >>

Grid

Overlay display settings

Show line numbers

Show track sizes

Show area names

Extend grid lines

Grid overlays

div.container.container--grid

**EDITOR**

**+**

**BROWSER**

**+**

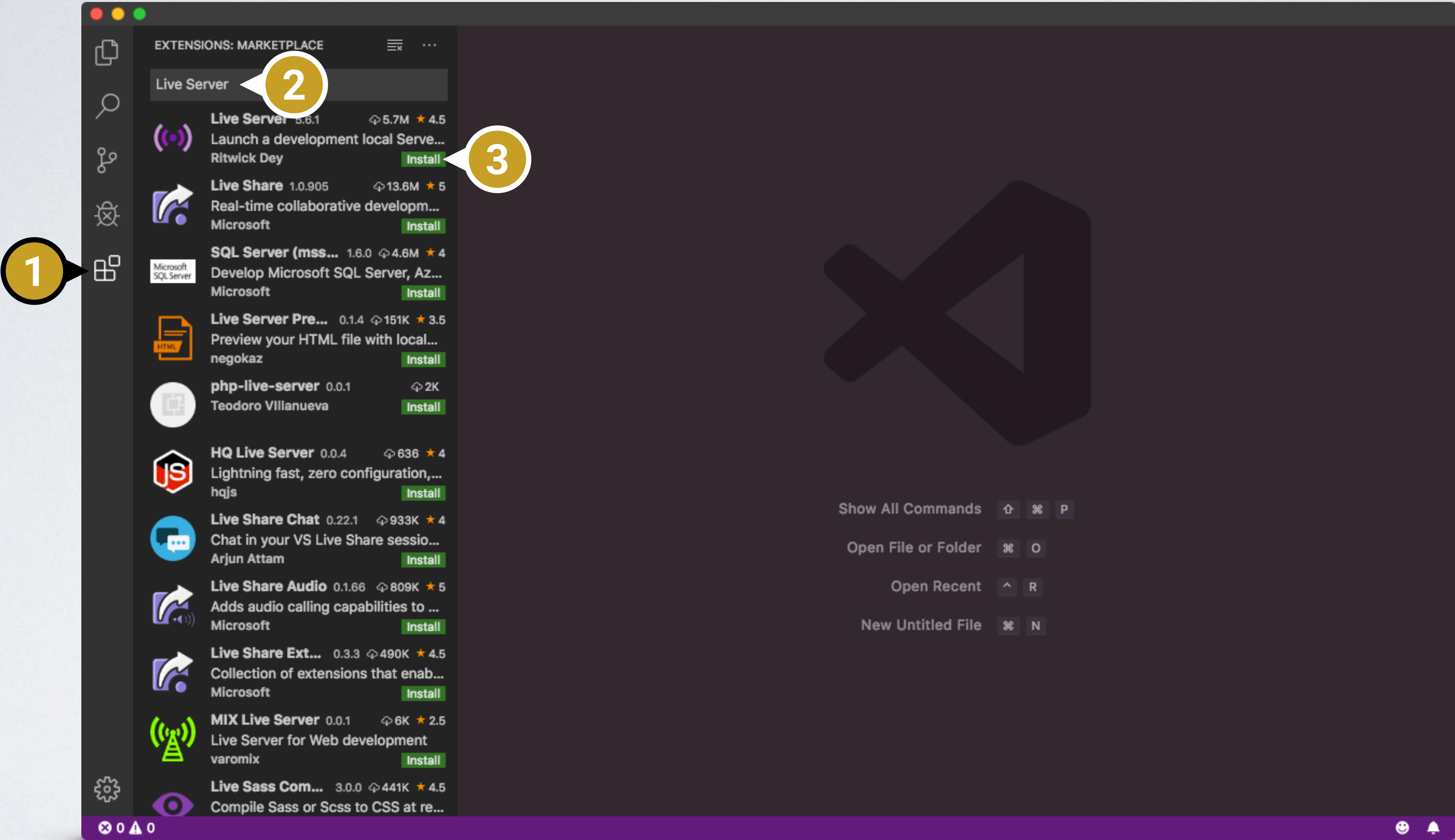
**DEV TOOLS**



# VISUAL STUDIO CODE: LIVE SERVER

The screenshot shows the Visual Studio Marketplace page for the 'Live Server' extension. At the top, the Visual Studio logo and 'Marketplace' are visible. The breadcrumb trail is 'Visual Studio Code > Other > Live Server'. A 'Sign in' link and a search icon are in the top right. A banner for 'New to Visual Studio Code? Get it now.' is also present. The main header for the extension features the 'Live Server' logo (a purple Wi-Fi symbol), the author 'Ritwick Dey', '2,690,650 installs', a 5-star rating from 199 reviews, and 'Free' pricing. A description states: 'Launch a development local Server with live reload feature for static & dynamic pages'. There is a green 'Install' button and a 'Trouble Installing?' link. Below this, navigation tabs for 'Overview', 'Q & A', and 'Rating & Review' are shown. A message from the author reads: '[I'm sorry but I'm super busy now. If you want to be a maintainer of the project, please feel free to contact me! You've to be passionate about programming]'. The extension title 'Live Server' is followed by a sub-header 'Live Server loves 🍷 your multi-root workspace'. A link points to 'Live Server for server side pages like PHP. Check Here'. A note mentions '[For 'command not found error' #78]'. A status bar shows 'vscode marketplace v5.6.1', 'downloads 5.8M', and 'rating 4.7/5 (199)'. It also indicates 'travis branch passing', 'appveyor branch failing', and 'license MIT'. A key feature is highlighted: 'Launch a local development server with live reload feature for static & dynamic pages.' Below this is a preview image showing the Visual Studio Code editor with an HTML file open and a browser window displaying the rendered 'Acme Web Design' website. On the right side, there are sections for 'Categories' (Other), 'Tags' (HTML Preview, keybindings, live preview, live reload, multi-root ready, open in browser, svg preview), 'Resources' (Issues, Repository, Homepage, License, Changelog, Download Extension), and 'Project Details' (ritwickdey/vscode-live-server, 7 Pull Requests, 226 Open Issues).

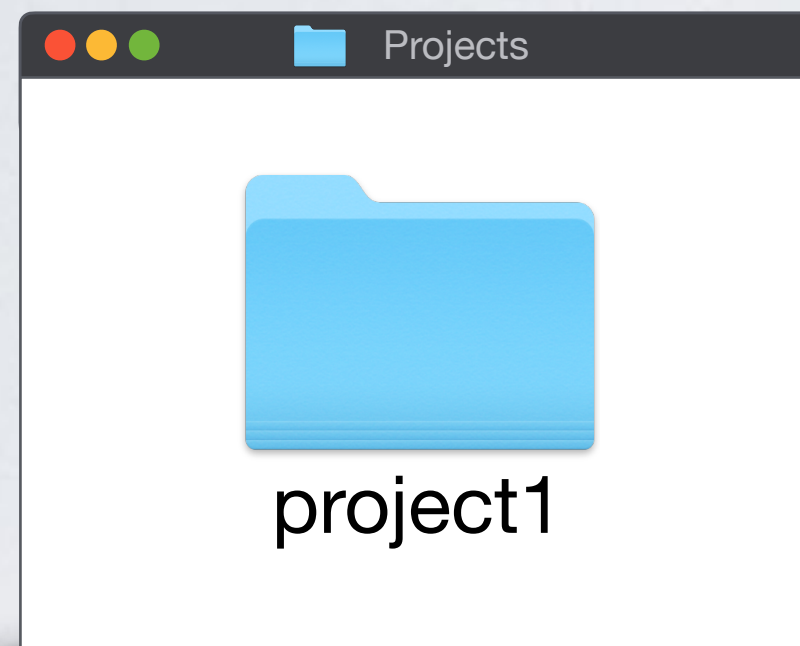
# VISUAL STUDIO CODE: LIVE SERVER



# VISUAL STUDIO CODE: LIVE SERVER

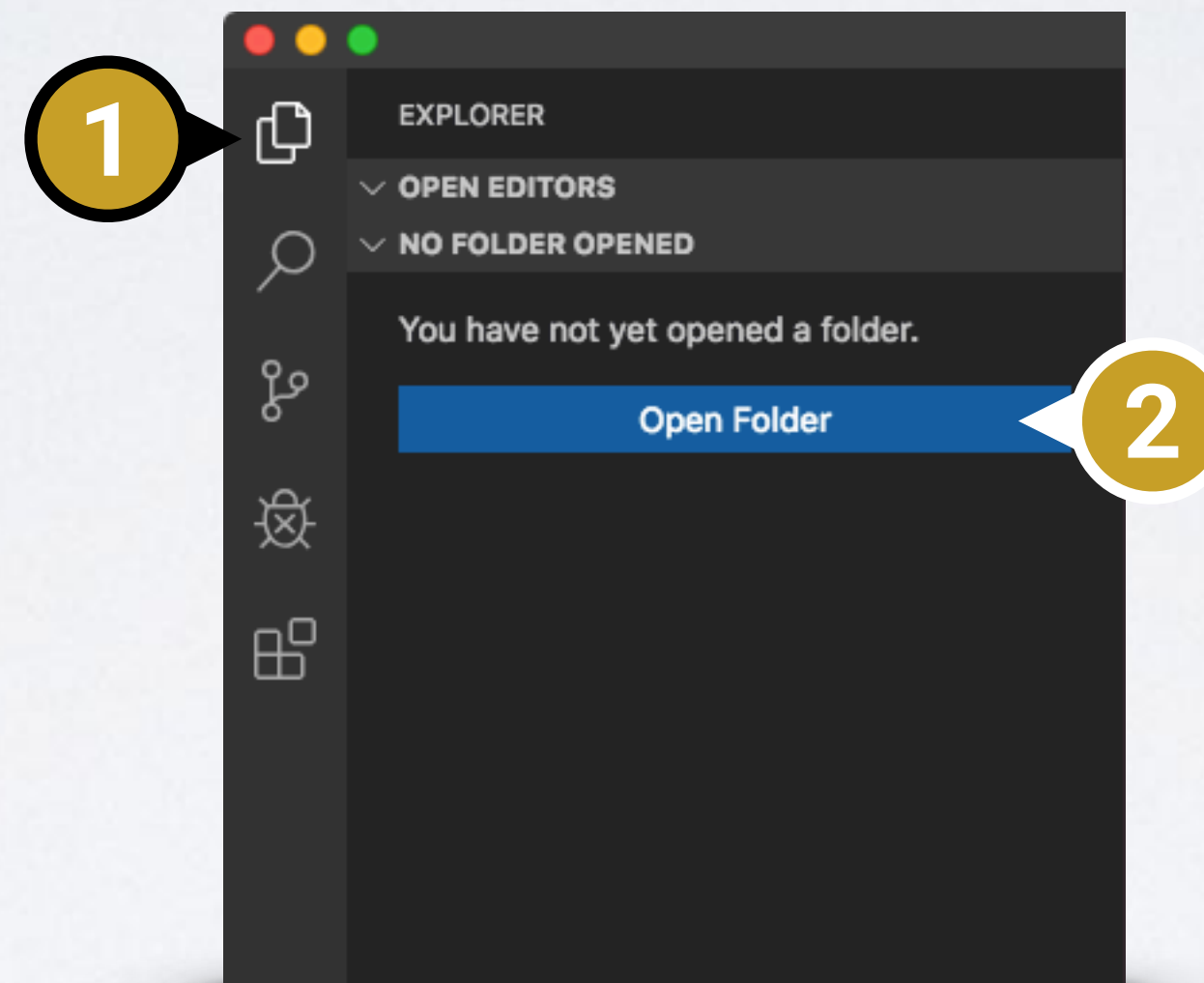
## 1- PROJECT FOLDER

Create a folder for your project.



## 2- OPEN IN VSCODE

Open that folder with Visual Studio Code.



## 3- LAUNCH LIVE SERVER

Create an HTML file, save it and open it in your browser via Live Server.



# BASE CSS

Flexbox & CSS Grid workshop / Base CSS  
A PEN BY In a Rocket

Save Fork Settings Change View

```
HTML
1 <div class="container">
2   <div class="i1">Item1</div>
3   <div class="i2">Item2</div>
4   <div class="i3">Item3</div>
5   <div class="i4">Item4</div>
6 </div>

CSS
1 /* Base */
2 * { box-sizing: border-box; }
3 .container {
4   border: 2px dotted black;
5 }
6 .i1 { background: #EB3D44; }
7 .i2 { background: #FCB935; }
8 .i3 { background: #72B63C; }
9 .i4 { background: #268AEF; }
10 .i5 { background: #A15BCB; }
11 .i6 { background: #D833A0; }
12 .i7 { background: #333; }
13 .i8 { background: #999; }

JS
1
```

Copy & paste to easily start playing with Flexbox and CSS grid

Item1  
Item2  
Item3  
Item4

Console Assets Comments % Last saved 1 hour ago Delete Share Export Embed Collections

# QUICK INSTALLATION

*How to install your environment automatically*



Chocolatey



Homebrew

macOS

# WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

The screenshot shows the Chocolatey website homepage. At the top, there is a navigation bar with links for Main, Community, Docs, Blog, and Install, along with a search icon. Below this is a secondary navigation bar with links for Overview, Product, Solutions, Community, and About, and a 'Try It Now' button. The main heading reads 'THE PACKAGE MANAGER FOR WINDOWS' with the subtitle 'Modern Software Automation'. Three buttons are visible: 'Why Chocolatey', 'Get Started', and 'Find Packages'. The 'Get Started' button is highlighted with a yellow circle and a white arrow. Below the navigation are three content cards. The first card is a birthday announcement for Chocolatey's 11th anniversary, featuring a cake and balloons, with a 'Read the Blog' link. The second card is a webinar replay titled 'CHOCOLATEY AND INTUNE OVERVIEW' from March 30, 2022, featuring speakers Cory Knox and Stephen Valdinger, with a 'Watch On-Demand' link. The third card is a Twitch live demo for 'SCRIPT BUILDER' on April 7, 2022, with speakers Paul Broadwith, Gary Ewan Park, and Stephanie Hays, with links for 'Follow on Twitch' and 'Add to Calendar'.

Main Community Docs Blog Install

> Overview > Product > Solutions > Community > About Try It Now

## THE PACKAGE MANAGER FOR WINDOWS

Modern Software Automation

Why Chocolatey Get Started Find Packages

**Announcing 11 Years of Chocolatey**  
Happy Birthday to Chocolatey! As we turn 11 this week we wanted to make an epic announcement!

[Read the Blog →](#)

**Live Webinar CHOCOLATEY AND INTUNE OVERVIEW**  
30 March 2022 • 3 PM UTC

Webinar Replay from Wednesday, 30 March 2022

Let us teach you just how simple it could be to keep your 3rd party applications updated across your devices, all with Intune!

[Watch On-Demand](#)

**LIVE ON Twitch FIND IT, ADD IT INSTALL IT WITH SCRIPT BUILDER**  
7 April 2022 at 4PM UTC

Thursday, 07 Apr 2022  
6:00 PM GMT+2 / 4:00 PM UTC

Script Builder allows you to bulk install Chocolatey packages in just a few clicks. Join us on Twitch as we dive into Script Builder with a live demo.

[Follow on Twitch](#) [Add to Calendar ▼](#)

# WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

## ▼ Step 2: Choose Your Installation Method

### Know the Requirements:

- Windows 7+ / Windows Server 2003+
- PowerShell v2+ (minimum is v3 for install from this website due to [TLS 1.2 requirement](#))
- .NET Framework 4+ (the installation will attempt to install .NET 4.0 if you do not have it installed)(minimum is 4.5 for install from this website due to [TLS 1.2 requirement](#))

### 1. Choose How to Install Chocolatey:

Generic

Individual

Ansible

CHEF

PS DSC

puppet

### Install Chocolatey for Individual Use:

1. First, ensure that you are using an [administrative shell](#) - you can also install as a non-admin, check out [Non-Administrative Installation](#).
2. Install with powershell.exe

**NOTE:** Please inspect <https://community.chocolatey.org/install.ps1> prior to running any of these scripts to ensure safety. We already know it's safe, but you should verify the security and contents of **any** script from the internet you are not familiar with. All of these scripts download a remote PowerShell script and execute it on your machine. We take security very seriously. [Learn more about our security protocols](#).

With PowerShell, you must ensure [Get-ExecutionPolicy](#) is not Restricted. We suggest using [Bypass](#) to bypass the policy to get things installed or [AllSigned](#) for quite a bit more security.

- Run [Get-ExecutionPolicy](#). If it returns [Restricted](#), then run [Set-ExecutionPolicy AllSigned](#) or [Set-ExecutionPolicy Bypass -Scope Process](#).

Now run the following command:

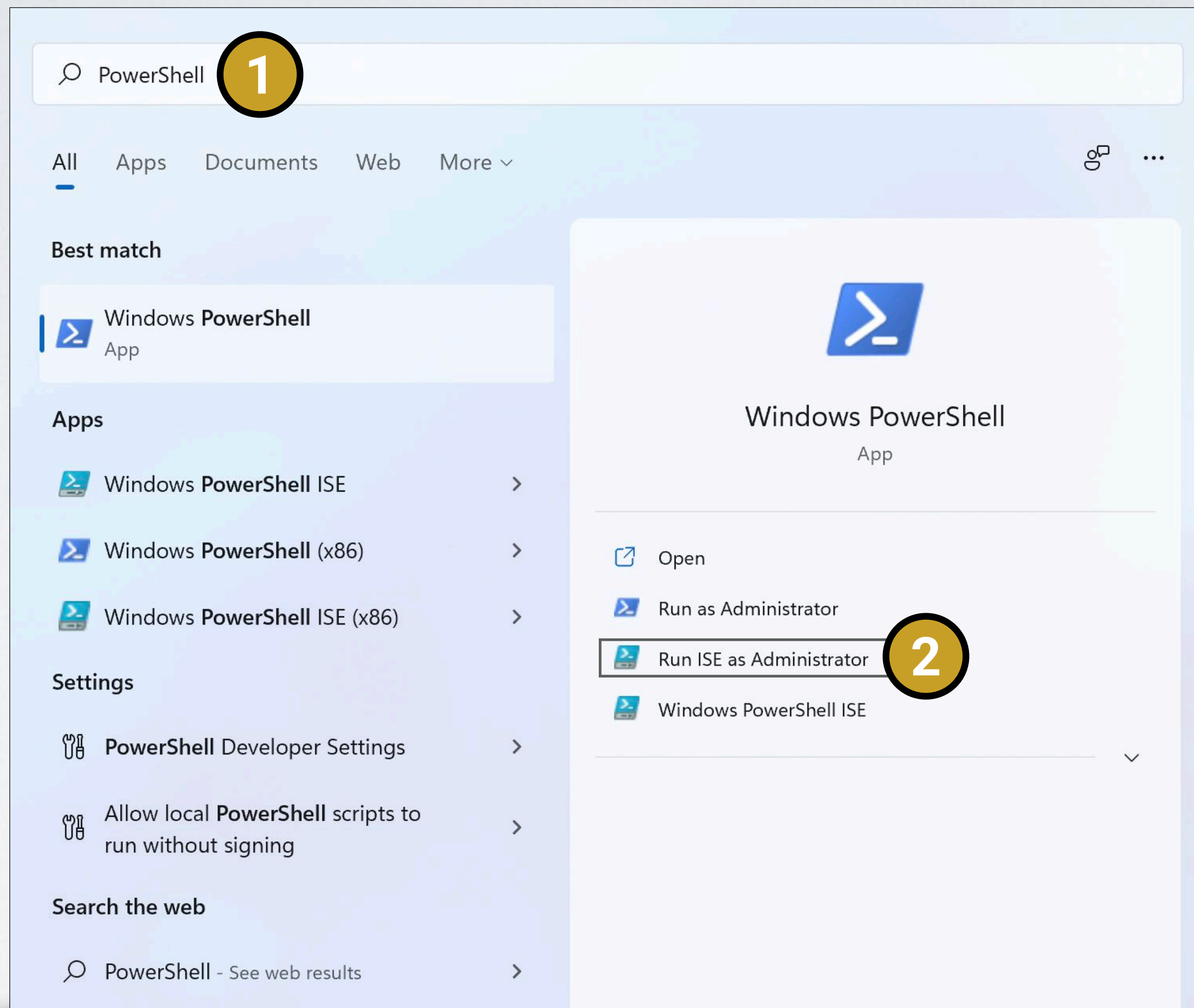
```
> Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; ie
```

3. Paste the copied text into your shell and press Enter.





# WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY



SOURCE: [Chocolatey / Install.](#)

# WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Administrator: Windows PowerShell

```
> Set-ExecutionPolicy Bypass -Scope Process -Force;  
[System.Net.ServicePointManager]::SecurityProtocol =  
[System.Net.ServicePointManager]::SecurityProtocol -bor 3072;  
iex ((New-Object  
System.Net.WebClient).DownloadString('https://  
community.chocolatey.org/install.ps1'))
```



Paste from clipboard

SOURCE: [Chocolatey / Install.](#)

# WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Administrator: Windows PowerShell

```
> choco install googlechrome firefox vscode -y
```

Install two browsers and a code editor automatically

Now your work environment is ready and you can easily keep your tools updated with this command:

```
Administrator: Windows PowerShell
```

```
> choco upgrade all
```



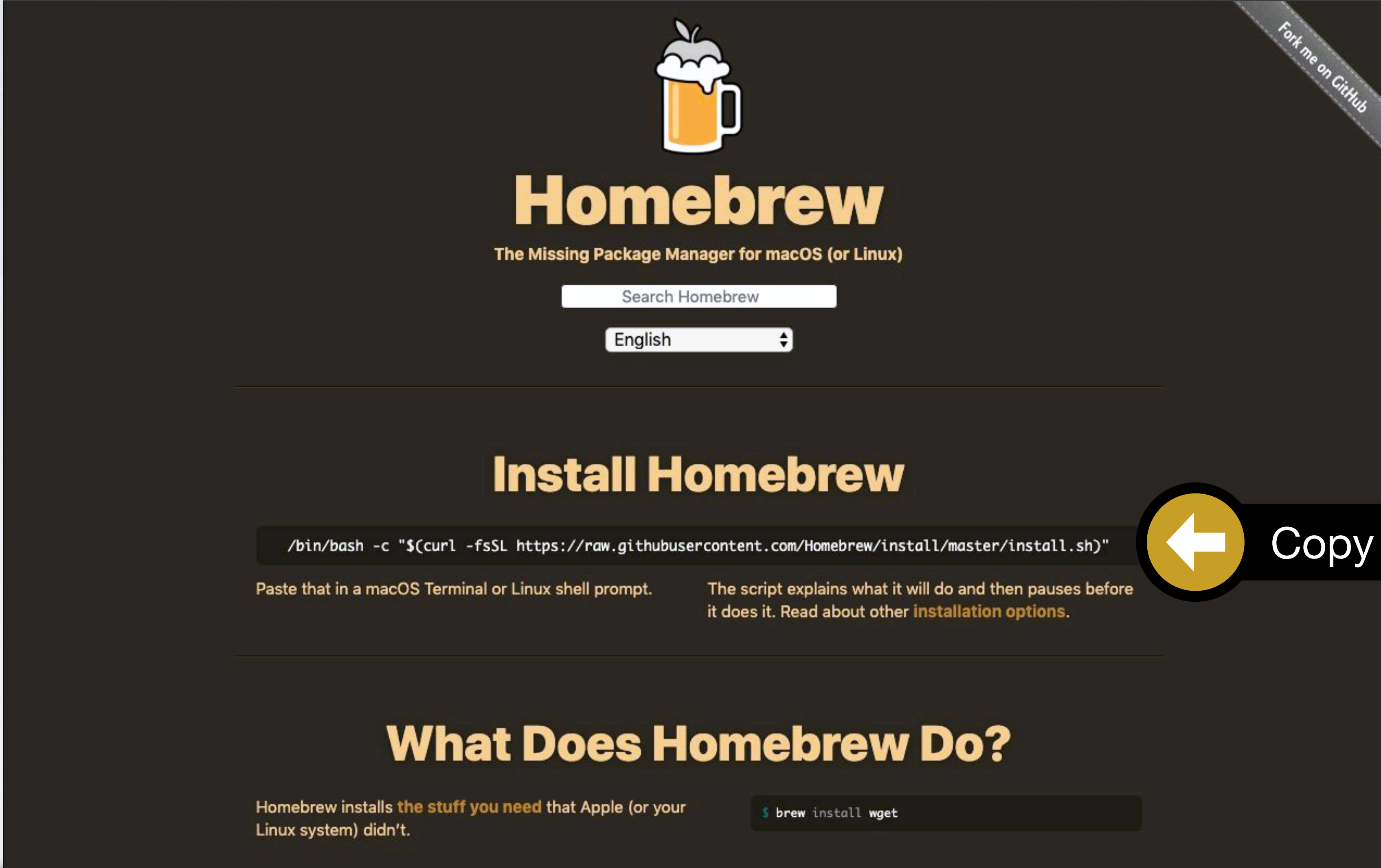
Chocolatey



Homebrew

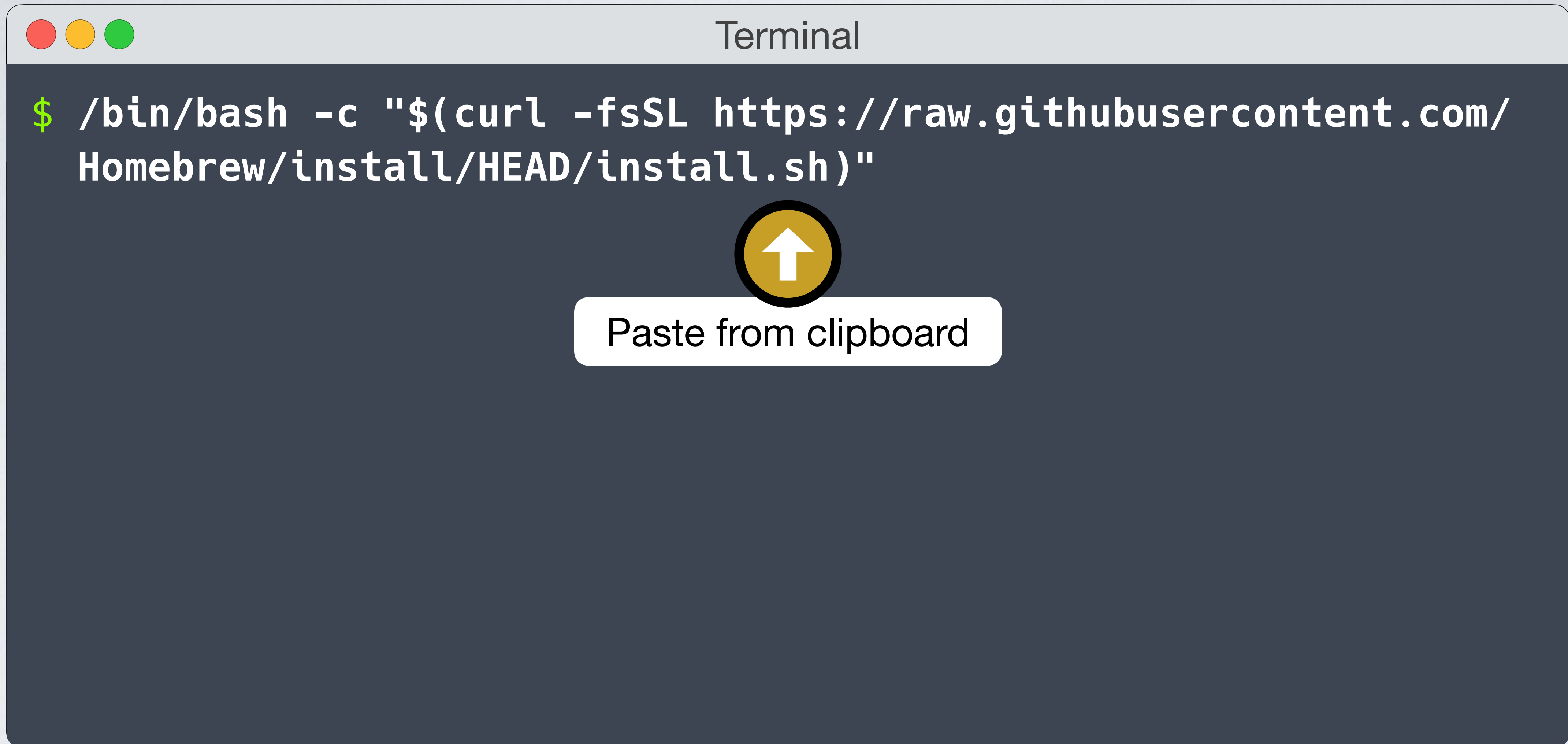
macOS

# MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW



The screenshot shows the Homebrew website interface. At the top center is the Homebrew logo, a beer mug with a slice of apple on top. Below the logo is the title 'Homebrew' in a large, bold, yellow font, followed by the subtitle 'The Missing Package Manager for macOS (or Linux)'. There is a search bar labeled 'Search Homebrew' and a language dropdown menu currently set to 'English'. A diagonal banner in the top right corner says 'Fork me on GitHub'. The main section is titled 'Install Homebrew' in yellow. Below this title is a terminal command: `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"`. To the right of the command is a yellow circular button with a white left-pointing arrow and the text 'Copy'. Below the command, there are two lines of explanatory text: 'Paste that in a macOS Terminal or Linux shell prompt.' and 'The script explains what it will do and then pauses before it does it. Read about other [installation options](#).' The bottom section is titled 'What Does Homebrew Do?' in yellow. Below this title, it says 'Homebrew installs **the stuff you need** that Apple (or your Linux system) didn't.' To the right of this text is a terminal snippet: `$ brew install wget`.

# MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW



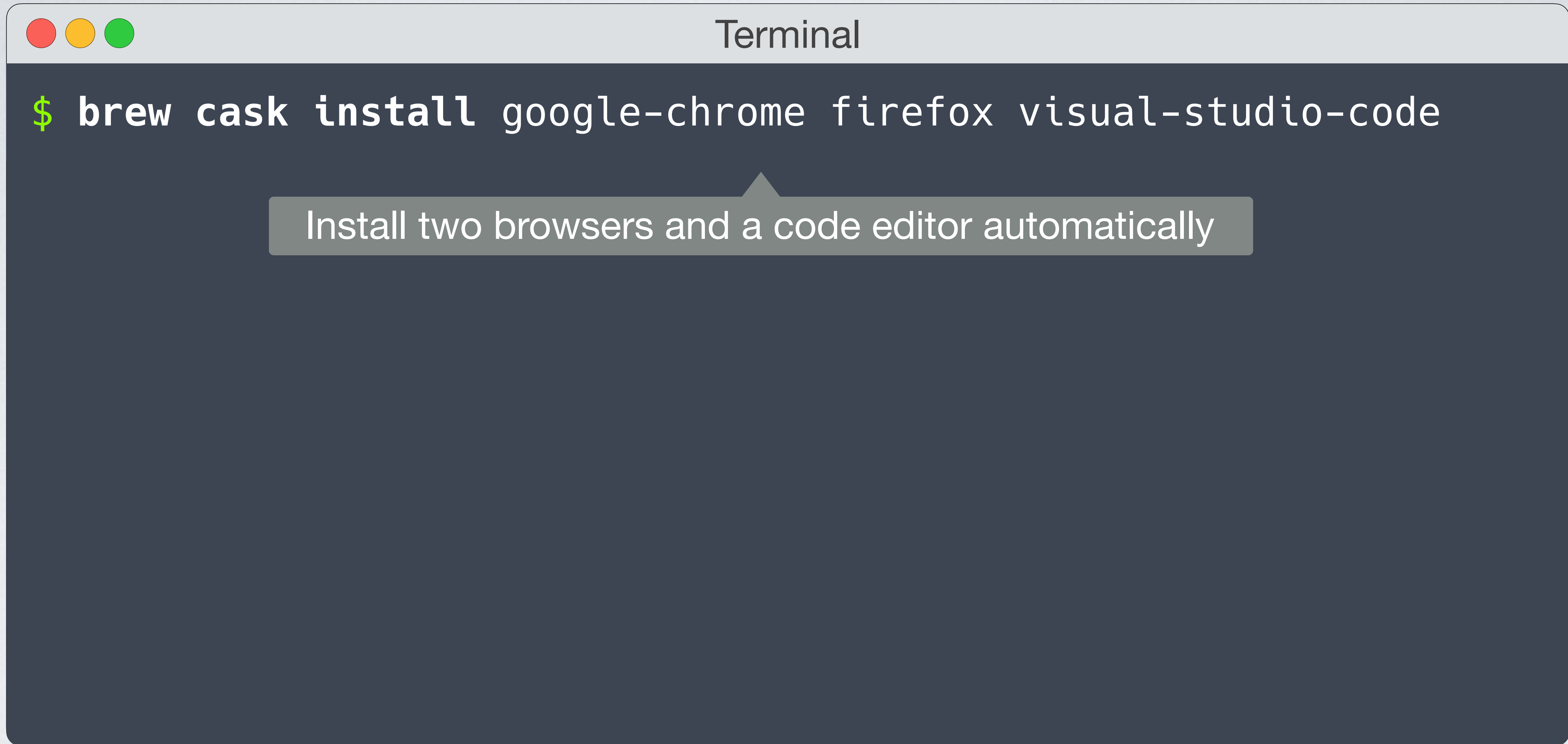
A terminal window titled "Terminal" with a dark background and light text. The window has three colored window control buttons (red, yellow, green) in the top-left corner. The terminal displays a command to install Homebrew using curl. Below the command, there is a yellow circular icon with a white upward-pointing arrow, and a white rounded rectangle containing the text "Paste from clipboard".

```
$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

Paste from clipboard

SOURCE: [Homebrew](#) and [Homebrew-Cask](#).

# MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW



A terminal window titled "Terminal" with three colored window control buttons (red, yellow, green) in the top-left corner. The terminal displays a command to install three applications using Homebrew casks. A callout box points to the word "cask" in the command, explaining its function.

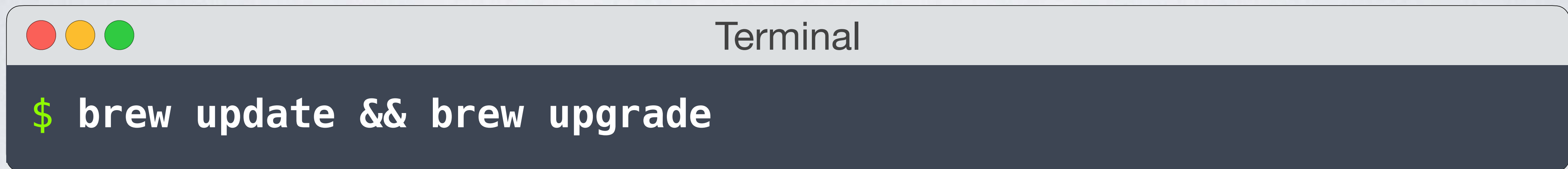
```
$ brew cask install google-chrome firefox visual-studio-code
```

Install two browsers and a code editor automatically

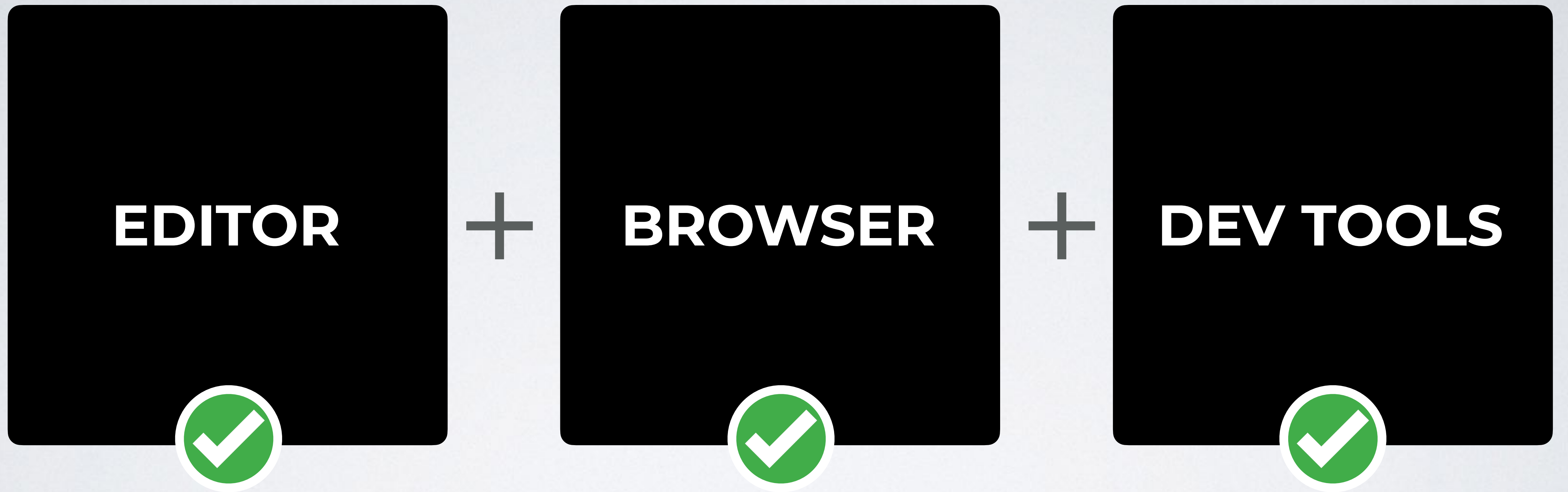


# MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW

Now your work environment is ready and you can easily keep your tools updated with this command:

A screenshot of a macOS Terminal window. The title bar is light gray and contains the word "Terminal" in the center. On the left side of the title bar are three colored window control buttons: red, yellow, and green. The main content area of the terminal is dark gray and contains the command `$ brew update && brew upgrade` in white text. The dollar sign is highlighted in green.

```
$ brew update && brew upgrade
```



CSS

FLEXBOX & CSS GRID

GETTING STARTED

# Environment setup



**IN A ROCKET**

Learn front-end development at *rocket speed*