

CSS

FLEXBOX & CSS GRID

Environment



IN A ROCKET

Learn front-end development at *rocket speed*

EDITOR

+

BROWSER

+

DEV TOOLS

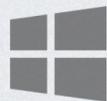
ENVIRONMENT SETUP: EDITOR

Editor: pre-installed

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



Notepad



TextEdit



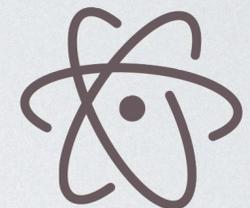
Gedit



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

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BROWSER

+

DEV TOOLS

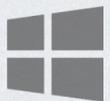
ENVIRONMENT SETUP: BROWSER

Browser: pre-installed

You can just use any preinstalled browser in your computer.



Edge



Safari



Firefox



Chrome



Firefox



Opera



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



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



EDITOR

+

BROWSER

+

DEV TOOLS

FIREFOX CSS GRID INSPECTOR

The screenshot displays the Firefox DevTools interface with the CSS Grid Inspector active. The browser window at the top shows the URL `https://gridbyexample.com/examples/example1/`. The main area shows a grid layout with six boxes labeled A through F. Box A is highlighted in purple. The grid is defined by four vertical lines (numbered 1, 2, 3, 4) and three horizontal lines (numbered 1, 2, 3). The grid cells are labeled with their row and column indices: Row 1 / Column 1 (100 x 69), Row 1 / Column 2 (3), Row 1 / Column 3 (4), Row 2 / Column 1 (-1), Row 2 / Column 2 (-3), Row 2 / Column 3 (-2), Row 3 / Column 1 (-4), Row 3 / Column 2 (-3), Row 3 / Column 3 (-2), Row 4 / Column 1 (-1).

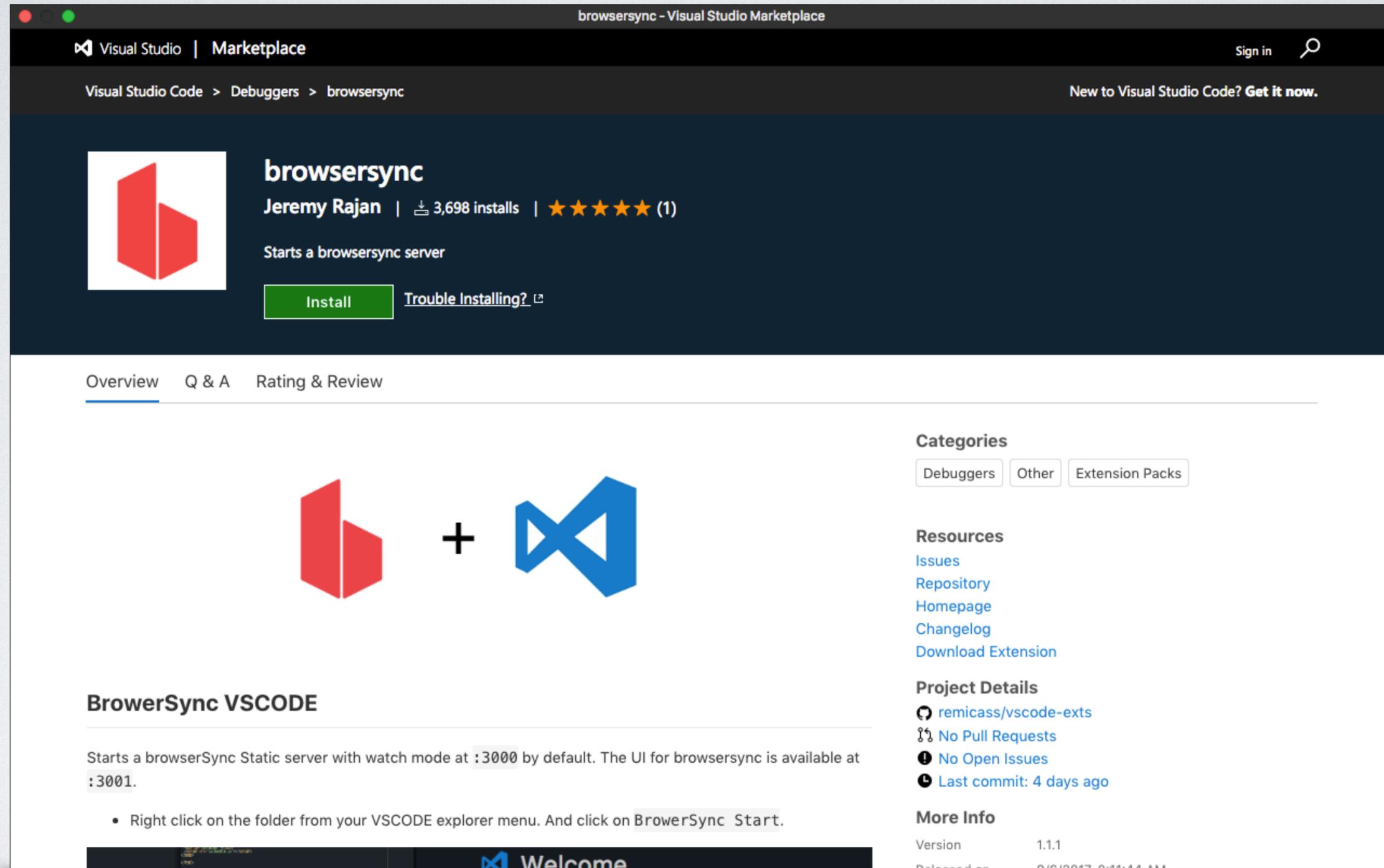
The DevTools Inspector at the bottom shows the following panels:

- HTML:** Shows the DOM tree with the following structure:

```
<div class="wrapper">
  <div class="box a">A</div>
  <div class="box b">B</div>
  <div class="box c">C</div>
  <div class="box d">D</div>
  <div class="box e">E</div>
  <div class="box f">F</div>
</div>
```
- CSS:** Shows the styles for the selected element (`.box`):

```
.box {
  background-color: #444;
  color: #fff;
  border-radius: 5px;
  padding: 20px;
  font-size: 150%;
}
```
- Grid:** Shows the Grid Display Settings:
 - Overlay Grid: `div.wrapper`
 - Grid Display Settings:
 - Display line numbers
 - Display area names
 - Extend lines infinitely

BROWSERSYNC EXTENSION FOR VISUAL STUDIO CODE



The screenshot shows the Visual Studio Marketplace page for the 'browsersync' extension. The page is titled 'browsersync - Visual Studio Marketplace' and is part of the 'Visual Studio Code > Debuggers > browsersync' category. The extension is developed by 'Jeremy Rajan' and has 3,698 installs and a 5-star rating from 1 user. The description states it 'Starts a browsersync server'. There is an 'Install' button and a 'Trouble Installing?' link. The page includes tabs for 'Overview', 'Q & A', and 'Rating & Review'. A diagram shows the extension's compatibility with Visual Studio Code. The 'Categories' section lists 'Debuggers', 'Other', and 'Extension Packs'. The 'Resources' section includes links for 'Issues', 'Repository', 'Homepage', 'Changelog', and 'Download Extension'. The 'Project Details' section shows the repository 'remicass/vscode-exts', 'No Pull Requests', 'No Open Issues', and 'Last commit: 4 days ago'. The 'More Info' section lists the version as '1.1.1' and the release date as '9/6/2017, 9:11:44 AM'. The bottom of the page shows a 'Welcome' message from Visual Studio Code.

Visual Studio | Marketplace Sign in

Visual Studio Code > Debuggers > browsersync New to Visual Studio Code? [Get it now.](#)

 **browsersync**
Jeremy Rajan | 3,698 installs | ★★★★★ (1)
Starts a browsersync server

[Install](#) [Trouble Installing?](#)

Overview Q & A Rating & Review

 + 

BrowerSync VSCODE

Starts a browserSync Static server with watch mode at `:3000` by default. The UI for browsersync is available at `:3001`.

- Right click on the folder from your VSCODE explorer menu. And click on `BrowerSync Start`.

Categories
Debuggers Other Extension Packs

Resources
[Issues](#)
[Repository](#)
[Homepage](#)
[Changelog](#)
[Download Extension](#)

Project Details
[remicass/vscode-exts](#)
[No Pull Requests](#)
[No Open Issues](#)
[Last commit: 4 days ago](#)

More Info
Version 1.1.1
Released on 9/6/2017, 9:11:44 AM

Welcome

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; }
14
15 /* Flexbox */
```

```
JS
1
```

Item1
Item2
Item3
Item4

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

INSTALLATION

~ ~ ~



Chocolatey



Homebrew

macOS



Chocolatey



Homebrew

macOS

WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Chocolatey

Overview Product Community Learn Partners About

Install Now

The Package Manager for Windows

Modern Software Automation

Why Chocolatey Get Started Find Packages

Modernize
Simplify software management with cutting-edge technology

Accelerate
Rapidly create, test, and deploy critical updates

Integrate
Integrate with existing cloud and on-premise technologies

Automate
Easily automate your entire Windows software lifecycle

WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Chocolatey Install:

Individual

Organization

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://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]
```

3. Paste the copied text into your shell and press Enter.
4. Wait a few seconds for the command to complete.
5. If you don't see any errors, you are ready to use Chocolatey! Type `choco` or `choco -?` now, or see [Getting Started](#) for usage instructions.

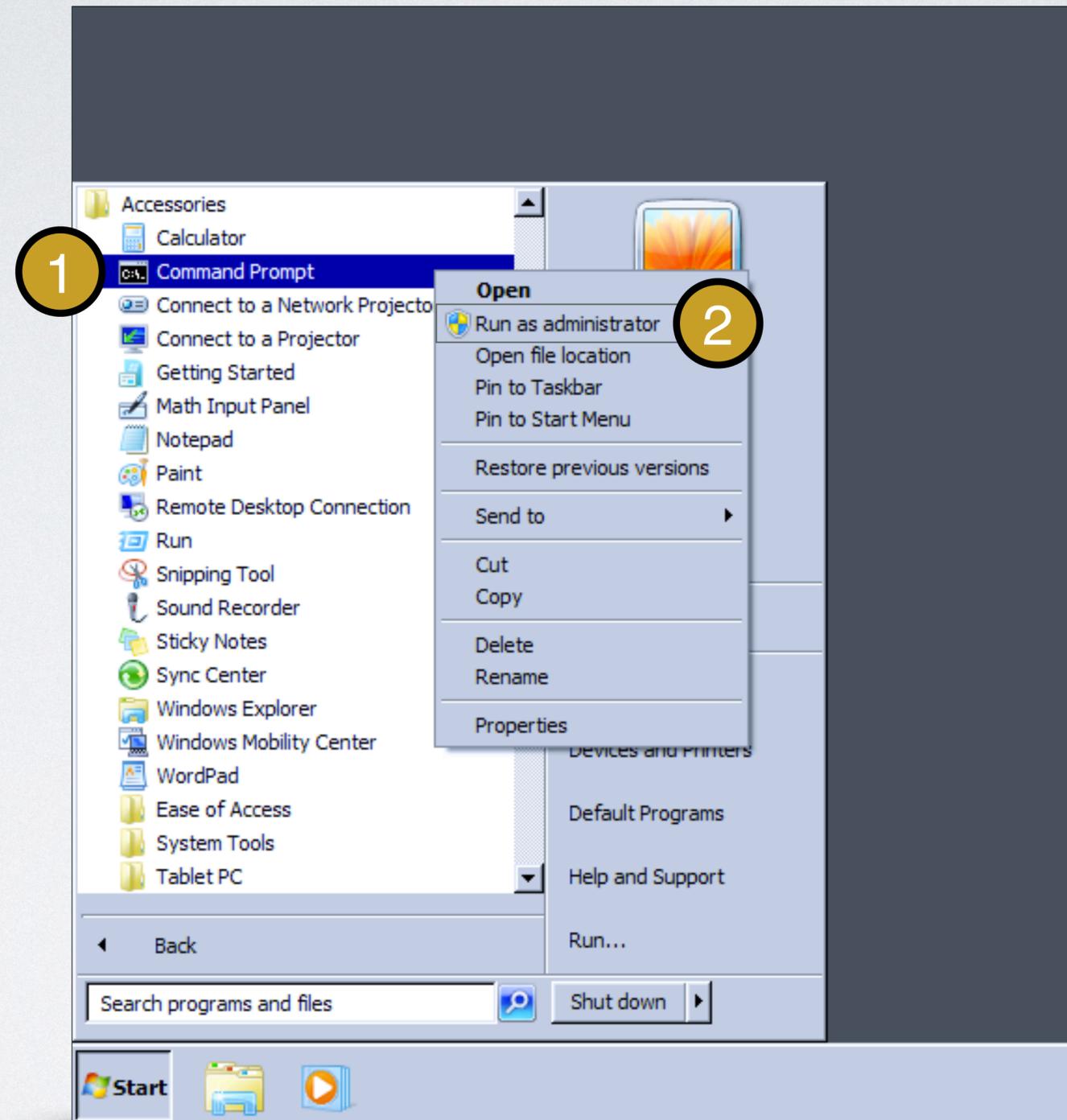
Chocolatey Licensed Install:

Are you also installing a commercial edition of Chocolatey?

Please see [Install the Licensed Edition](#).



WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY



SOURCE: [Chocolatey / Install.](#)

WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Administrator: Command Prompt

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



Paste from clipboard

SOURCE: [Chocolatey / Install.](#)

WINDOWS: INSTALL YOUR ENVIRONMENT WITH CHOCOLATEY

Administrator: Command Prompt

```
> 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:

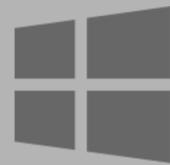
```
Administrator: Command Prompt
```

```
> choco upgrade all
```

SOURCE: [Chocolatey / Upgrade](#).



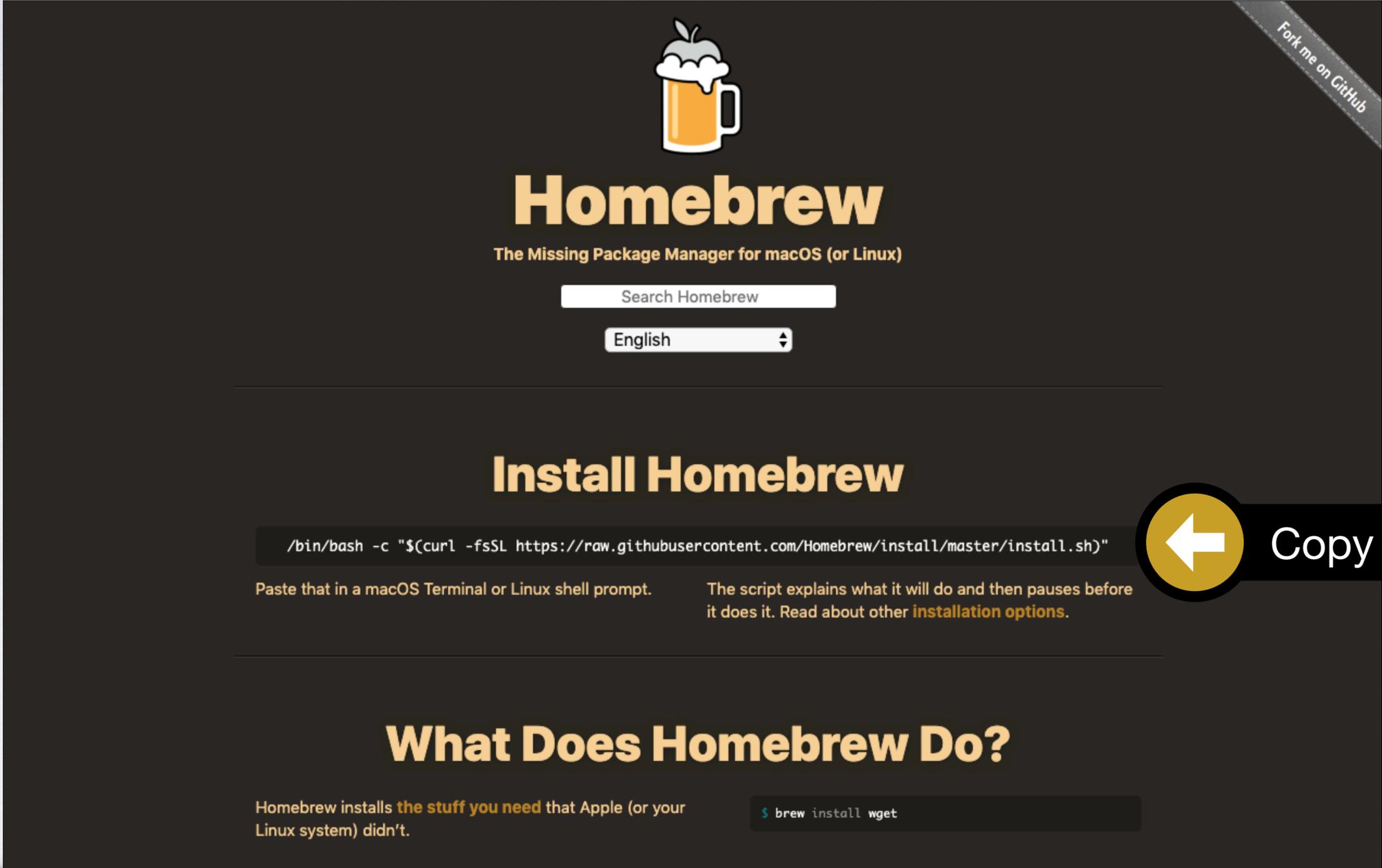
Chocolatey



Homebrew

macOS

MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW

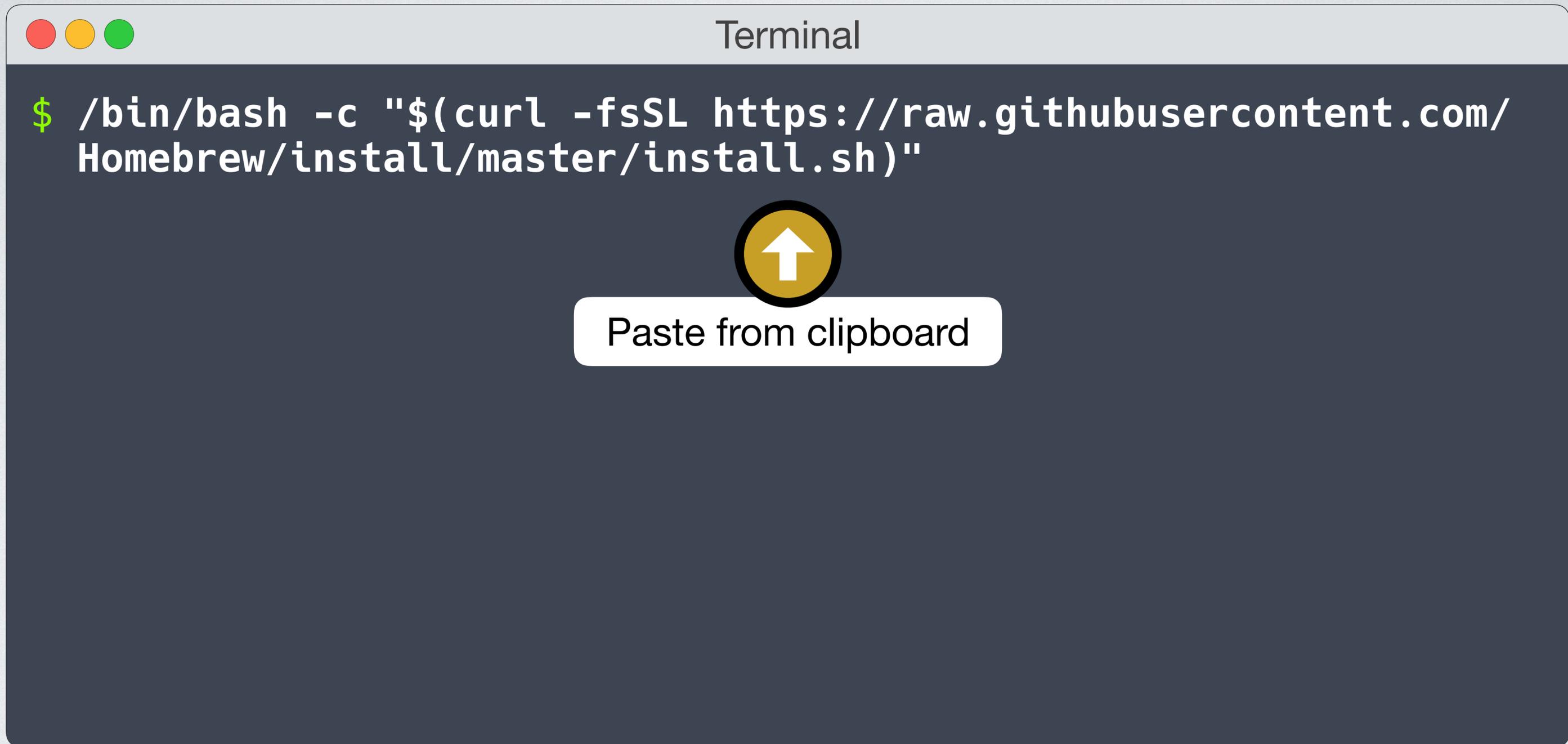


The screenshot shows the Homebrew website interface. At the top center is the Homebrew logo, a beer mug with a slice of apple on top. Below the logo is the text "Homebrew" in a large, bold, orange font, followed by "The Missing Package Manager for macOS (or Linux)" in a smaller, white font. There is a search bar with the placeholder text "Search Homebrew" and a language dropdown menu currently set to "English". In the top right corner, there is a diagonal link that says "Fork me on GitHub".

The main content area features a section titled "Install Homebrew" in a large, bold, orange font. Below this title is a code block containing the installation command: `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"`. To the right of the code block is a yellow circular button with a white left-pointing arrow and the text "Copy". Below the code block, 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](#)."

Below the installation section is another section titled "What Does Homebrew Do?" in a large, bold, orange font. The text below this title reads: "Homebrew installs **the stuff you need** that Apple (or your Linux system) didn't." To the right of this text is a code block showing the command: `$ brew install wget`.

MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW



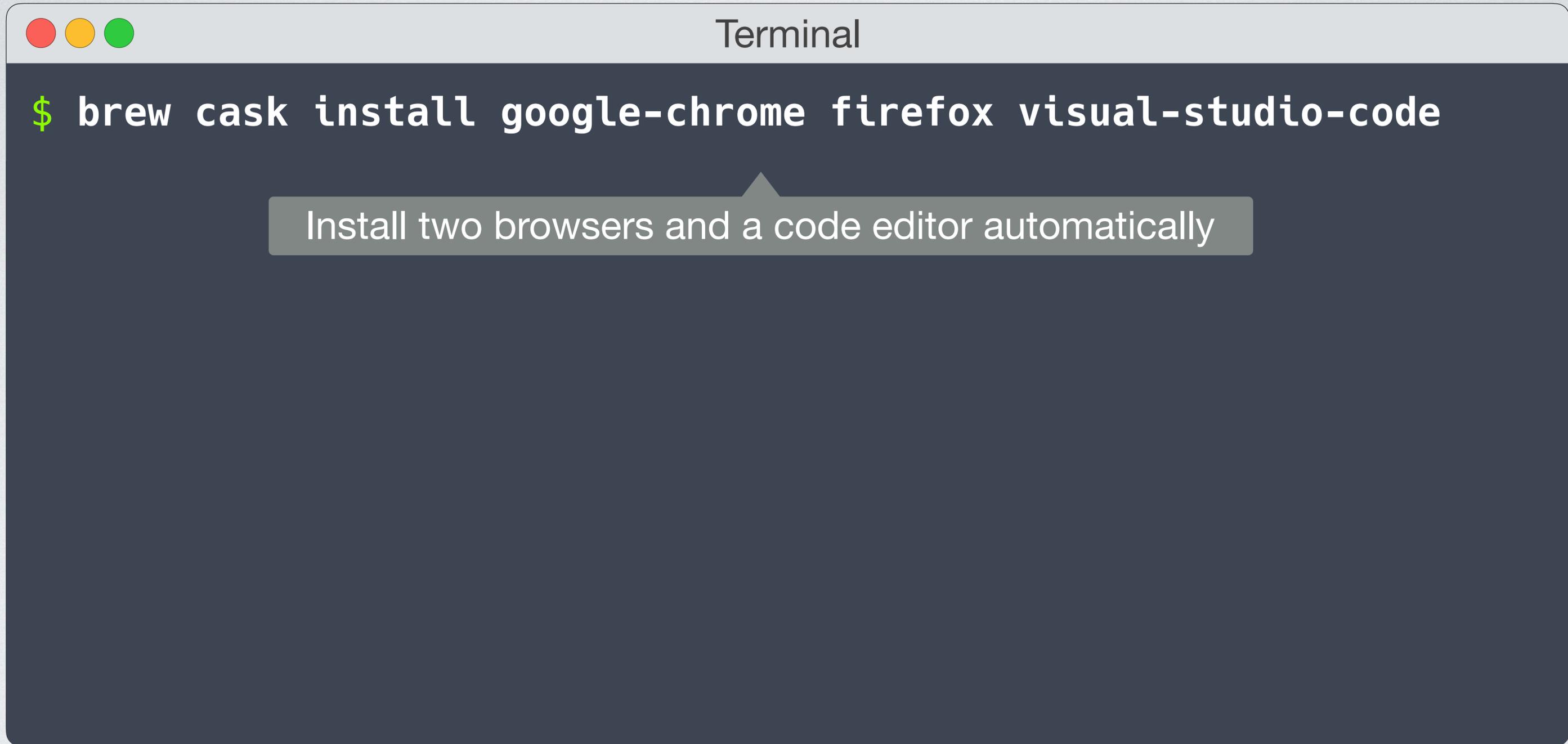
A terminal window titled "Terminal" with a dark background and light text. The window has three colored window control buttons (red, yellow, green) in the top-left corner. The terminal shows a command being entered: `$ /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"`. 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/master/install.sh)"
```

Paste from clipboard

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

MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW

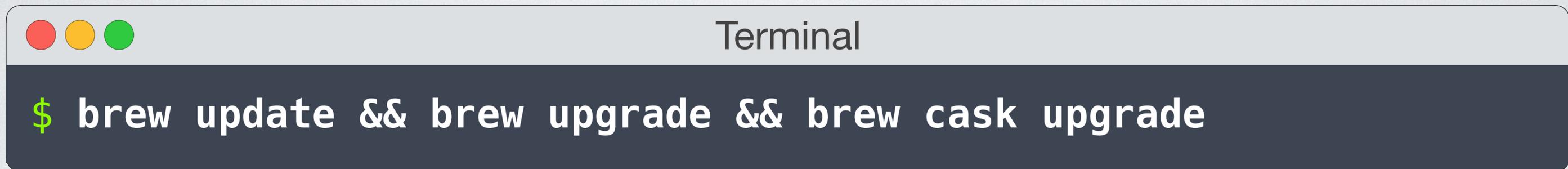


```
Terminal  
$ brew cask install google-chrome firefox visual-studio-code
```

Install two browsers and a code editor automatically

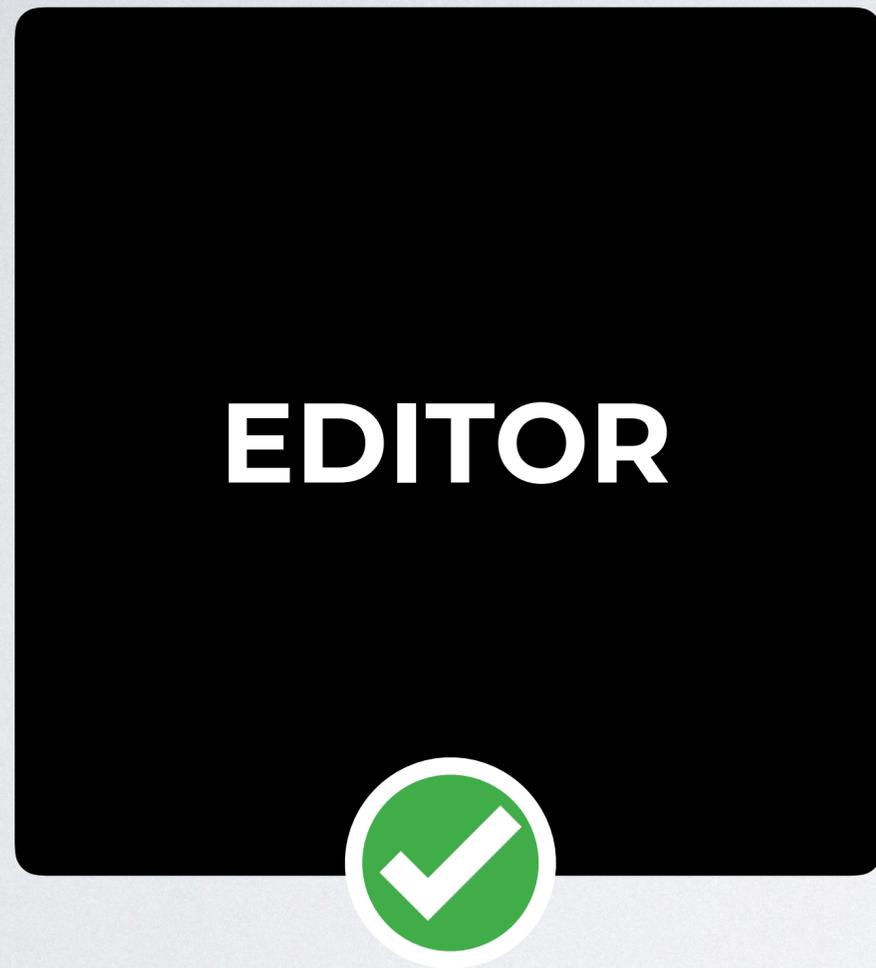
MACOS: INSTALL YOUR ENVIRONMENT WITH HOMEBREW

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

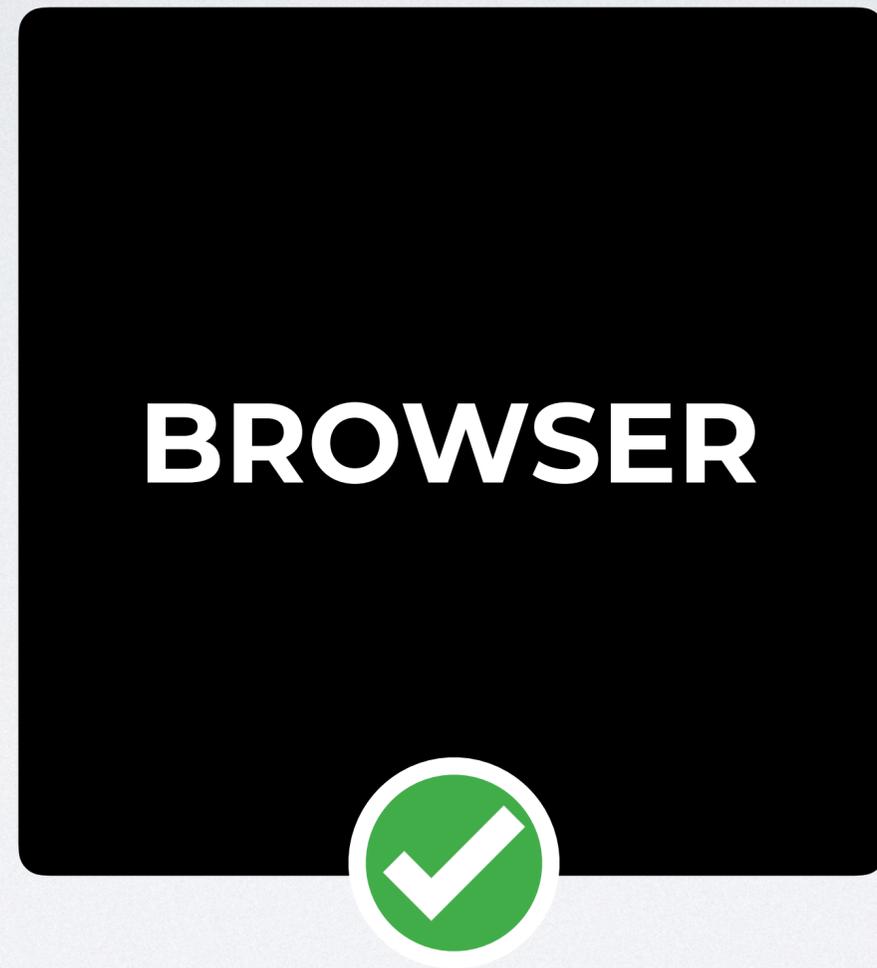
A terminal window titled "Terminal" with three colored window control buttons (red, yellow, green) in the top-left corner. The terminal content shows a command to update Homebrew tools:

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

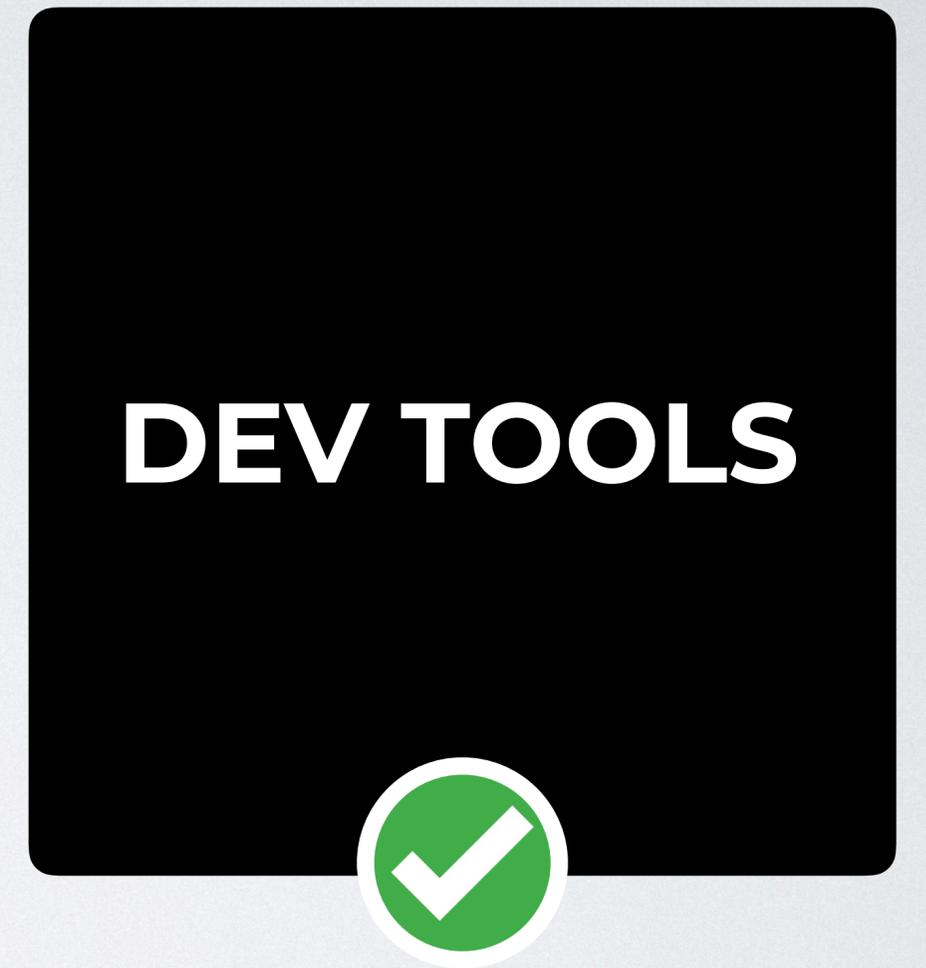
```
$ brew update && brew upgrade && brew cask upgrade
```



+



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CSS

FLEXBOX & CSS GRID

Environment



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