

From Zero to Hero: Copilot for Non-Developers



Greg Mohler | @CallMeGreg
Senior Service Delivery Engineer



Agenda

Rapidfire survey

AI / ML demystified

Copilot overview

Workshop - four ways anyone can use Copilot

Q&A



Greg Mohler

@CallMeGreg

Senior Service Delivery Engineer,
GitHub Expert Services

Rapidfire survey

AI / ML demystified

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Large Language Models (LLMs)

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Large Language Models (LLMs)

- They are what power Copilot (and ChatGPT)

AI/ML Buzzwords

(and Greg's Official Interpretation™)

Large Language Models (LLMs)

- They are what power Copilot (and ChatGPT)
- LLMs have two parts:
 - **Brain:** A really efficient mapping of words and their associations
 - **Text predictor:** Based on some words (input), what is a likely next word

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Large Language Models (LLMs)

- They are what power Copilot (and ChatGPT)
- LLMs have two parts:
 - **Brain:** A really efficient mapping of words and their associations
 - **Text predictor:** Based on some words (input), what is a likely next word
- Creating the brain, or “training the model”, is point in time, slow, and expensive

AI/ML Buzzwords

(and Greg's Official Interpretation™)

Large Language Models (LLMs)

- They are what power Copilot (and ChatGPT)
- LLMs have two parts:
 - **Brain:** A really efficient mapping of words and their associations
 - **Text predictor:** Based on some words (input), what is a likely next word
- Creating the brain, or “training the model”, is point in time, slow, and expensive
- The text predictor is selecting a word based on probability, not doing a lookup

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Determinism

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Determinism

- The same inputs cause the same output

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Determinism

- The same inputs cause the same output
- Calculators are deterministic 

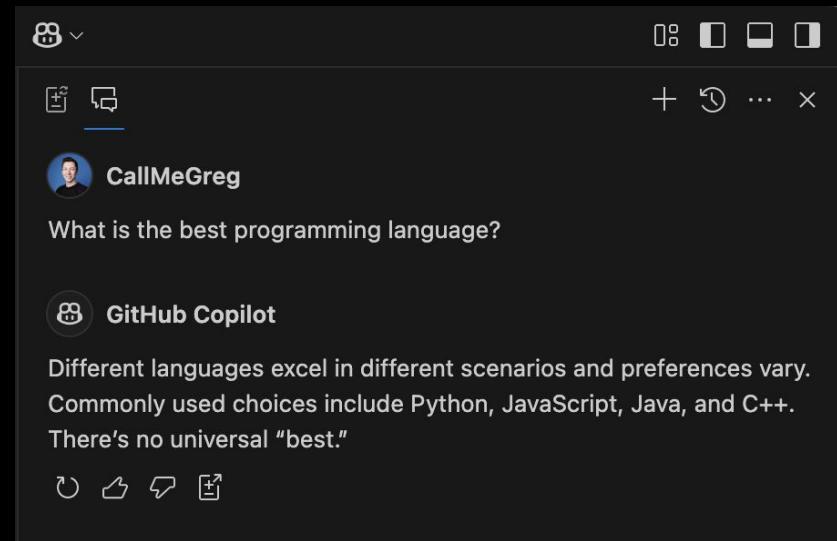
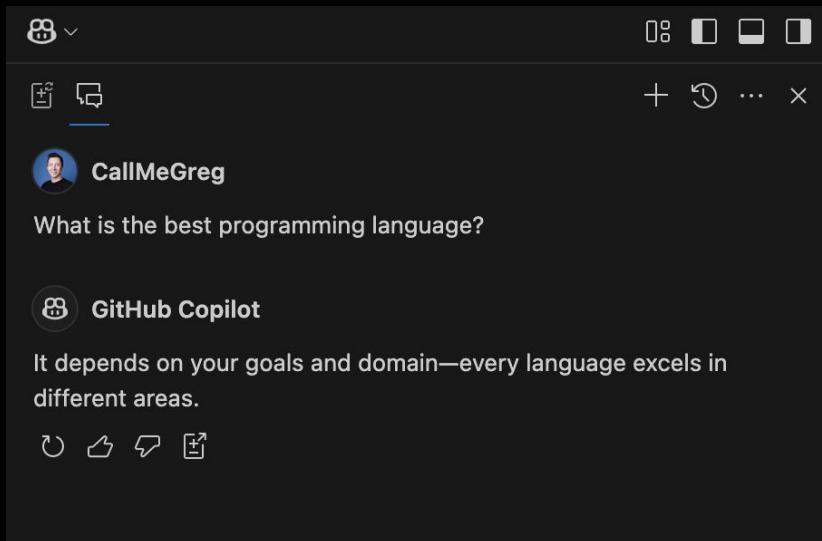
AI/ML Buzzwords

(and Greg's Official
Interpretation™)

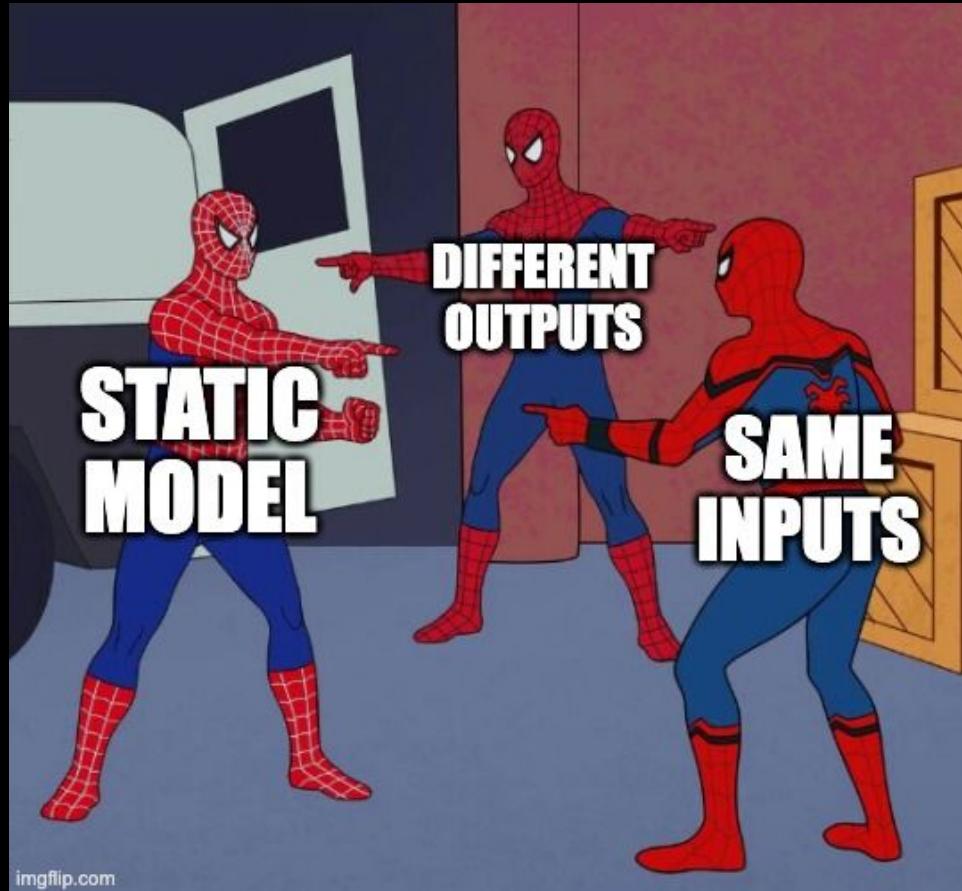
Determinism

- The same inputs cause the same output
- Calculators are deterministic ✓
- LLMs (and in turn Copilot) are **NOT** deterministic ❌

Copilot is non-deterministic



But why?



AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Temperature

AI/ML Buzzwords

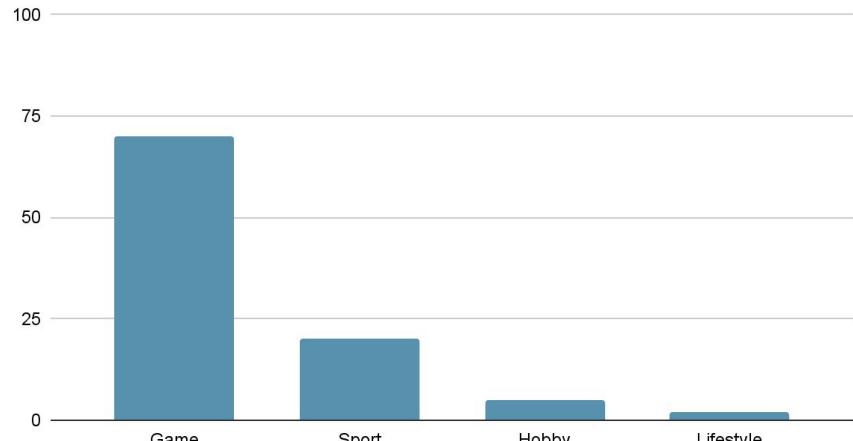
(and Greg's Official
Interpretation™)

Temperature

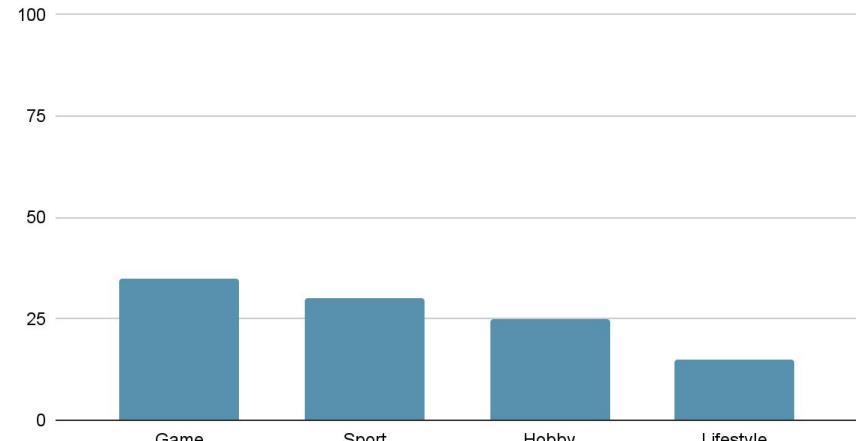
- The adjustment of next word probabilities to bring them closer together

Basketball is a _____?

Next word probability (raw)



Next word probability (high temperature)



AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Temperature

- The adjustment of next word probabilities to bring them closer together
- Increasing temperature increases the randomness in the LLMs response

AI/ML Buzzwords

(and Greg's Official
Interpretation™)

Temperature

- The adjustment of next word probabilities to bring them closer together
- Increasing temperature increases the randomness in the LLMs response
- A little bit of randomness means less looping, more creative responses, and the ability to “try again”

TL;DR: LLMs are a little random by design, and that's a good thing.

Questions so far?

Copilot overview

What is Copilot?

"An AI-powered code completion tool that helps developers write code faster."

- GitHub Copilot

What is Copilot?

*"An AI-powered ~~code~~ **text**
completion tool that helps
~~developers~~ **people learn and write**
~~code~~ faster."*

- Greg

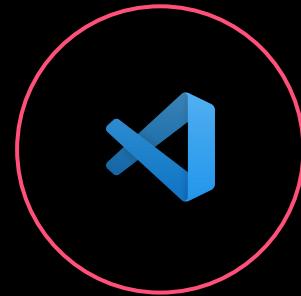
What is Required?



GitHub account



Copilot license



Integrated
Developer
Environment
(IDE)

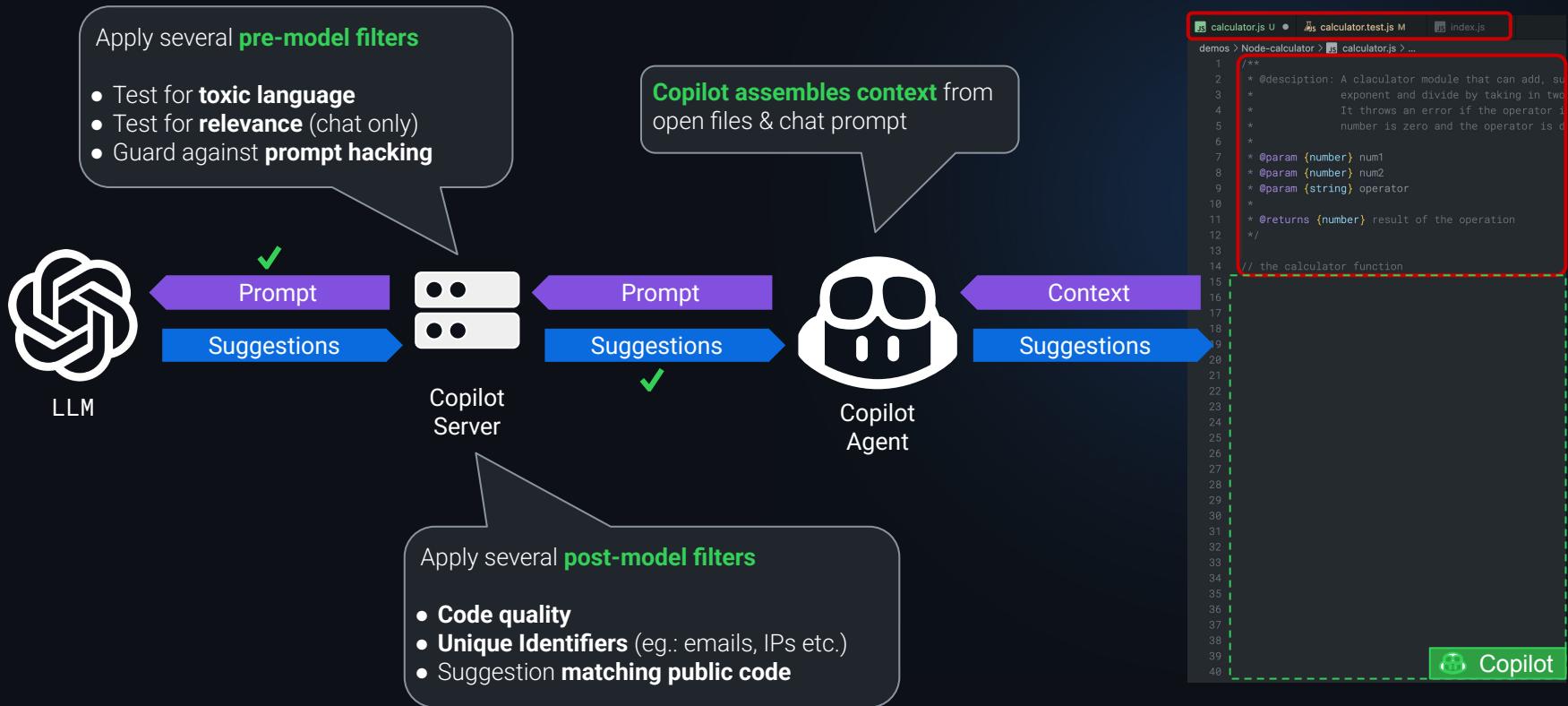
How does it work?

- Copilot is the middleman between your “context” and a Large Language Model (LLM)

How does it work?

- Copilot is the middleman between your “context” and a Large Language Model (LLM)
- Copilot vs. Copilot Chat

How Copilot Fulfills a Request



Using Copilot in your day to day

1. Draft markdown content
2. Reformatting into markdown
3. Copilot reviews
4. Create an issue template

Rapidfire survey (again)

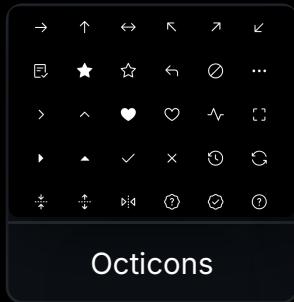
Q&A





Thank you

Presentation tools



Check out the following slides for these presentation tools & guidelines

A screenshot of a presentation slide titled "GitHub's Presentation Assets". The main title is "GitHub's Presentation Assets" in large, bold, white text. Below the title are five cards representing pillars: "Enterprise" (purple abstract shape), "Security" (blue abstract shape), "Productivity" (green abstract shape), "Collaboration" (red abstract shape), and "AI" (yellow circular icon).

Click here for GitHub pillar presentation assets to sprinkle some magic into your slides 

Fonts

X-Large Title

Large Title

Medium Title

Small Title

Statement

Statement

Description

Description

Usernames & Numbers

Inter Bold 48

Inter Bold 36

Inter Bold 28

Inter Bold 22

Inter Regular 18

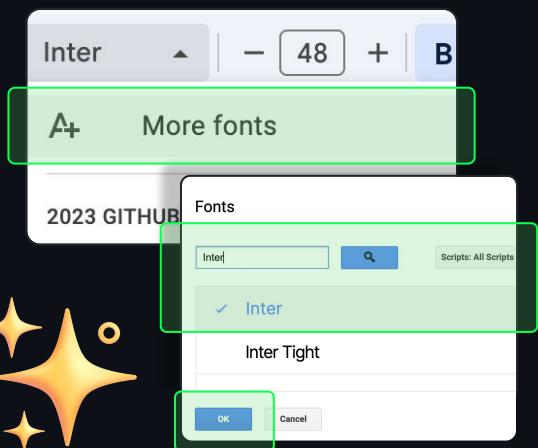
Inter Regular 16

Inter Regular 14

Inter Regular 12

Roboto Mono 12

If Inter isn't already
in your Google Fonts,
select a text box and...



Octicons

In the following slides, you will have access to our vector Octicon Library, which you can use throughout your presentation!



Please do



The icons are vectors which means you can change the colors (remaining within the provided GitHub Universe brand colors)



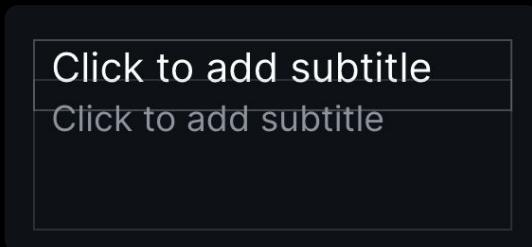
Please don't



The icons are already properly sized. Please refrain from resizing them.

Octicons

When you see text boxes like this...



Add an icon above to visually represent your information!



You're doing great
Keep it up!

And don't forget to play with color!

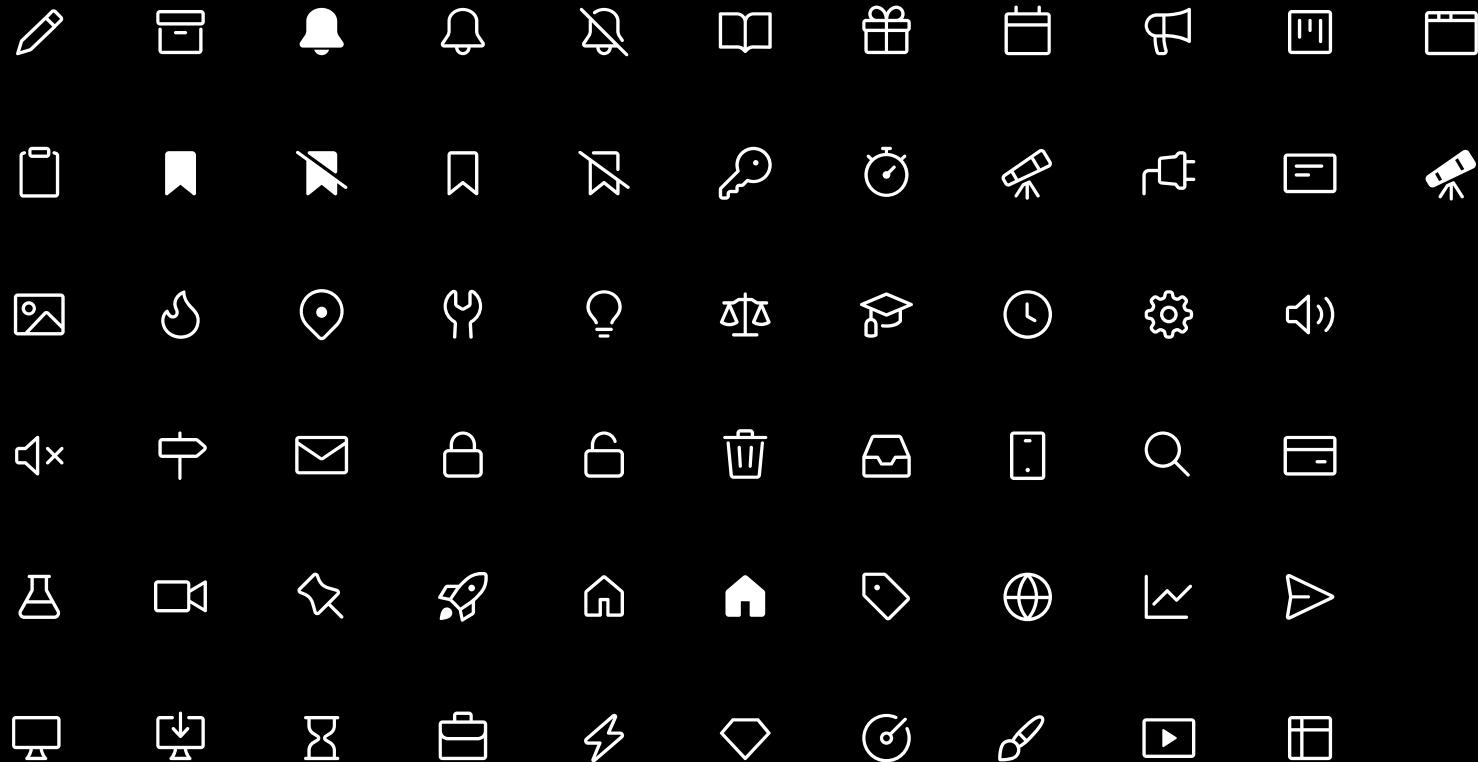


You're doing great
Keep it up!

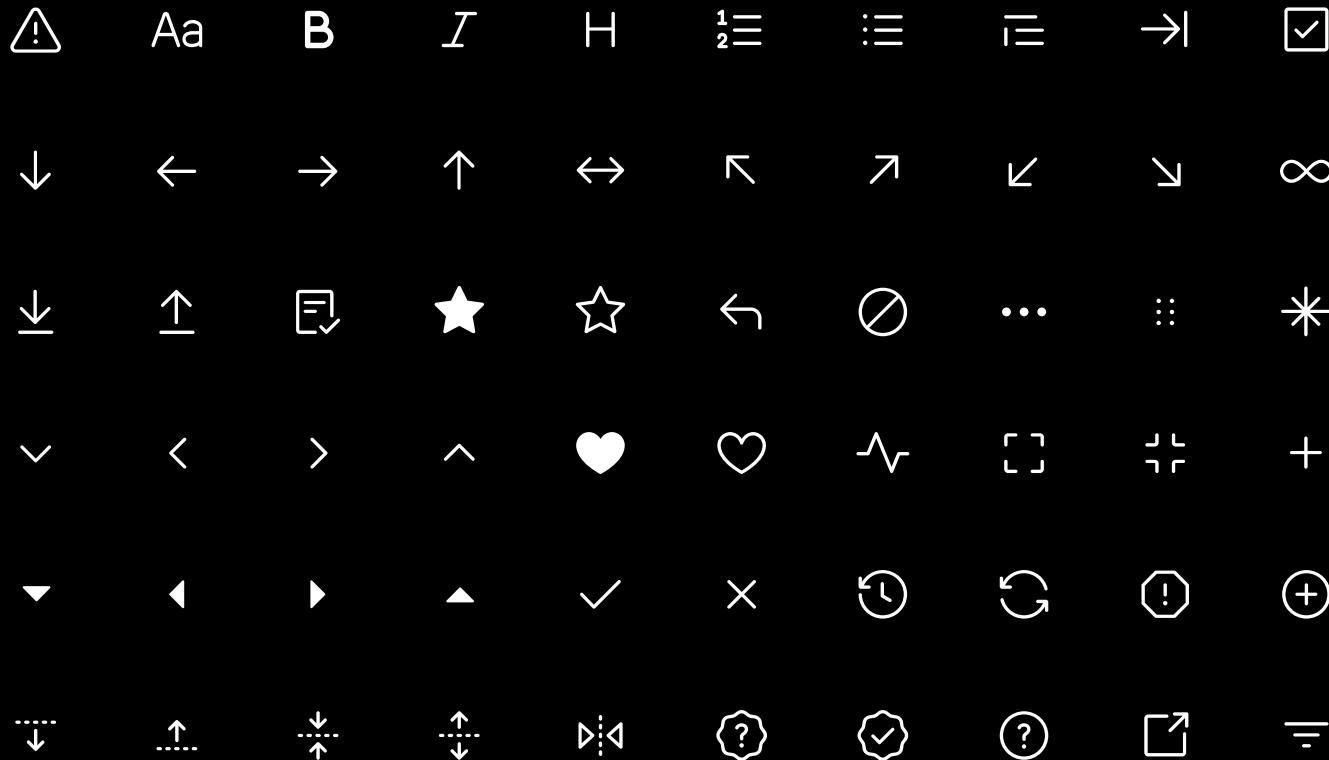
People



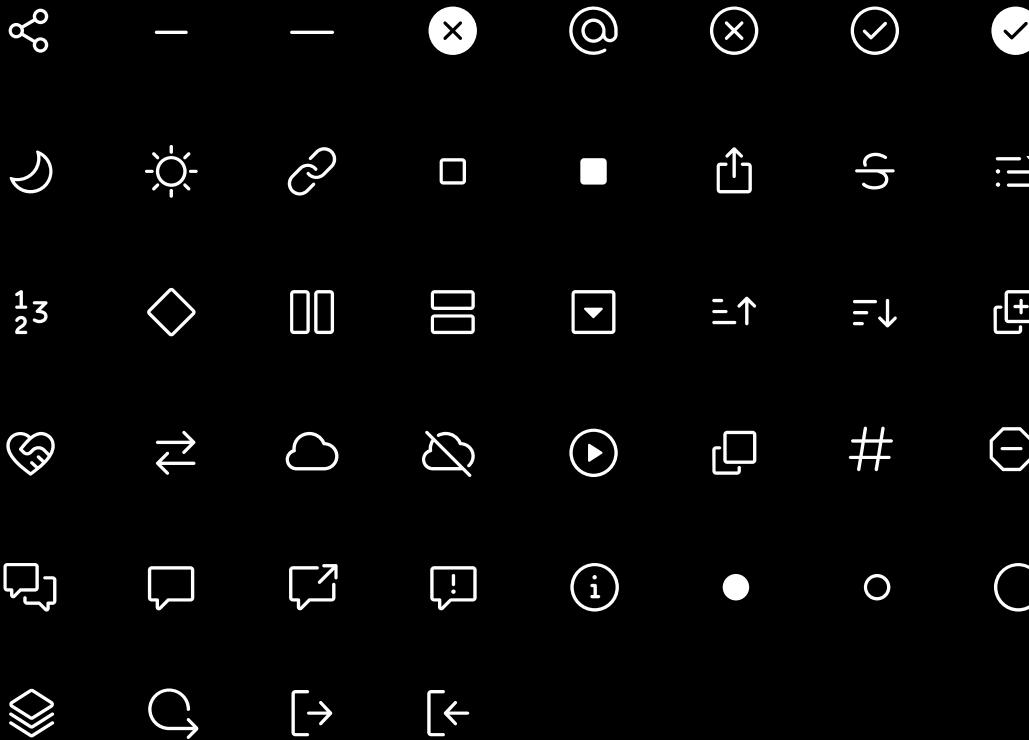
Objects



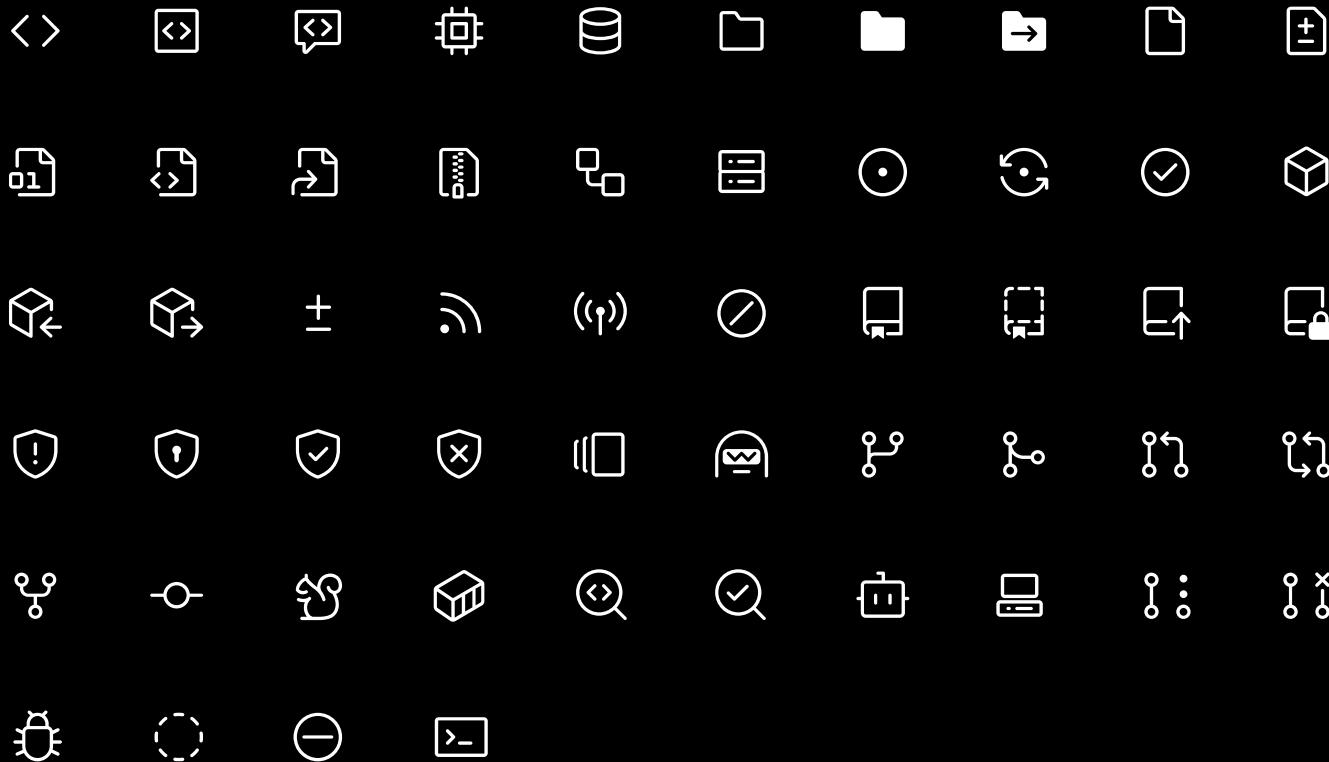
Symbols



Symbols



Developer

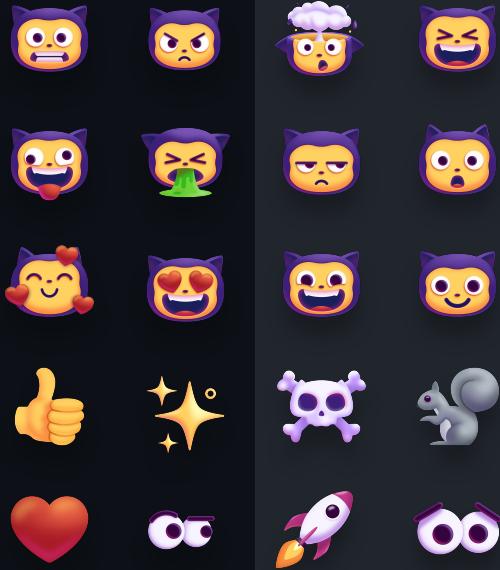


MONAMOJIS

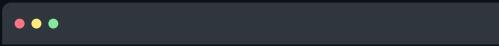
FOR INTERNAL USE ONLY!



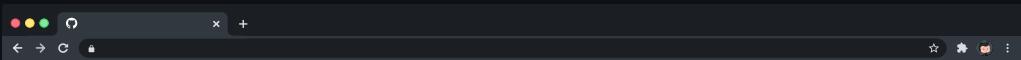
...if you use the monamojis for
external/public facing presentations



Title bars



Add a title bar
to your images ✨



Add a browser bar
to your screenshots! ✨



Let's build from here

The world's leading AI-powered developer platform.

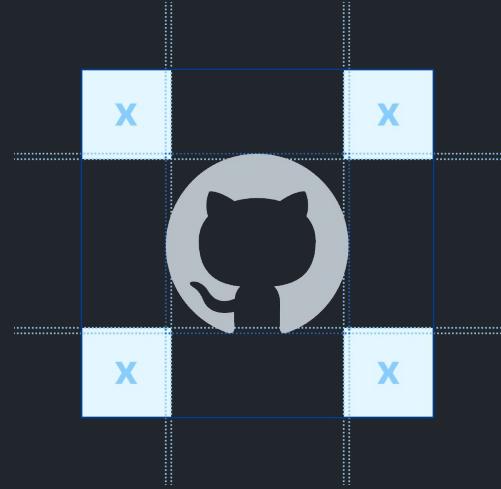
Email address [Sign up for GitHub](#) [Start a free enterprise trial >](#)

Trusted by the world's leading organizations ↴

3M KPMG SAP P&G TELUS

Productivity

Logos



All logos have a certain amount of breathing space. The "x" represents the space our logo should have when used next to any other element, such as: text, logos, icons, etc.

We want your feedback

Our goal is to offer you a template which makes it simple to create a beautiful, GitHub branded presentation. Tell us if we succeeded or if there are ways we can improve this tool for you! Any questions or suggestions are welcome ❤️

[Feedback survey](#)