

Contain(erize) your dev environment to free yourself



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We've all been there

It works on my machine

Install this library/service

No, not that version

Why doesn't this work?!



Agenda

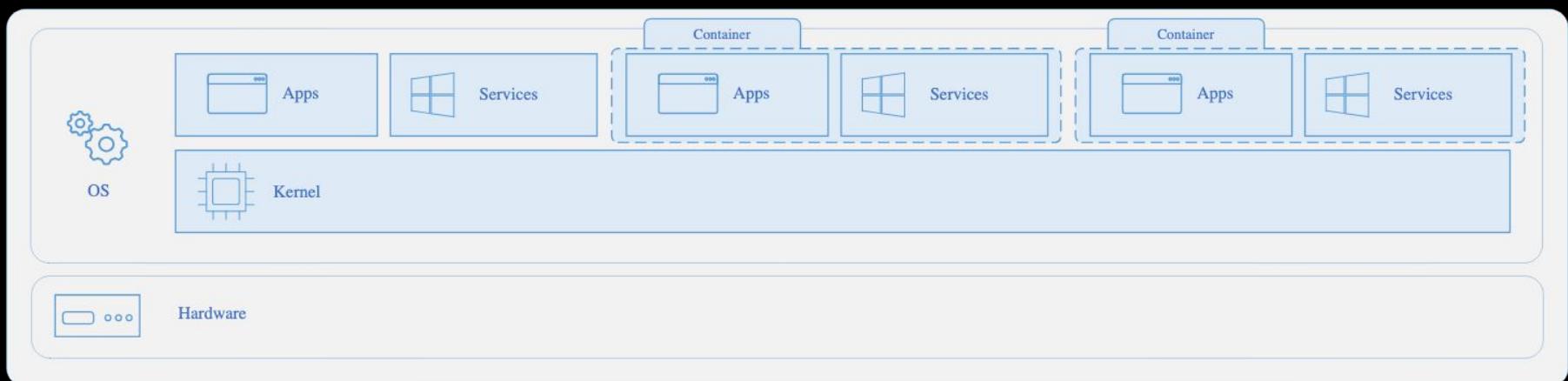
Containers 101

Creating a container from scratch

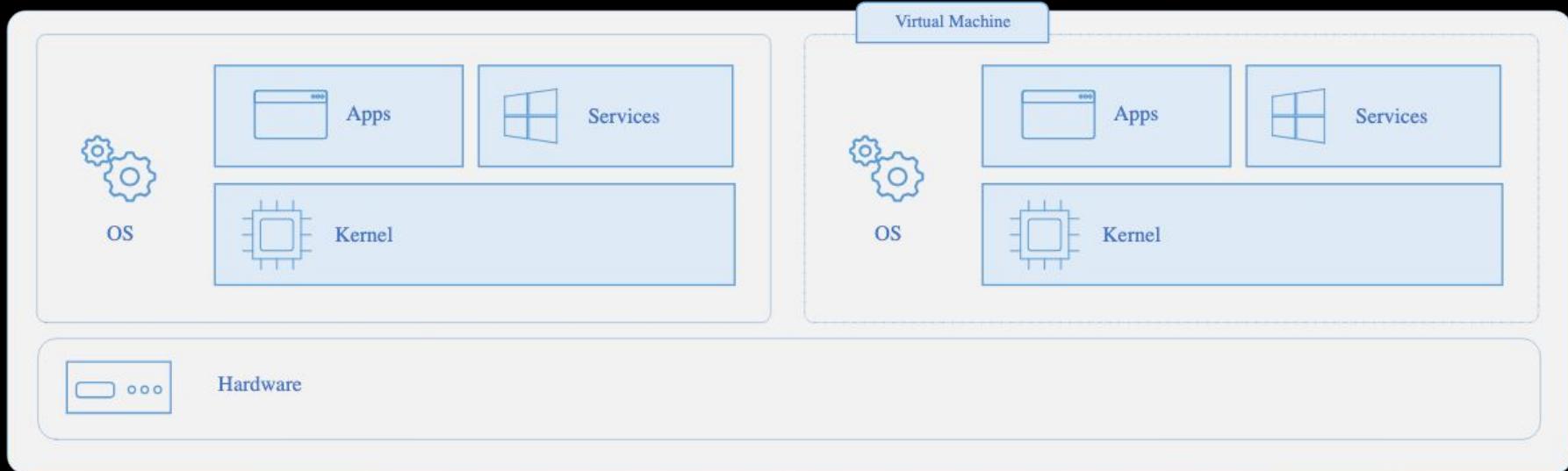
Creating dev containers

Using GitHub Codespaces

What is a container?



Why not just use virtual machines?



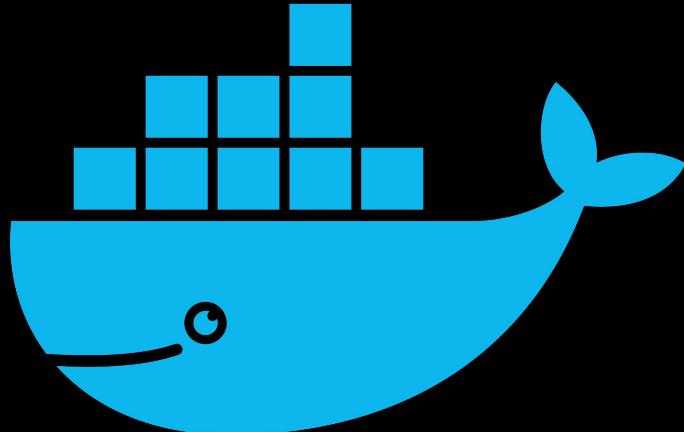
Why use containers for development?

Define once, develop
everywhere

Ensure consistency
across team

Streamline onboarding
process

What do I need to get started?



Some terminology

Image

Definition of a container, similar to a blueprint or a class

Container

An instance of an image, similar to a house or an object

Creating an image to run an application

`docker pull`

Get a predefined image from a repository

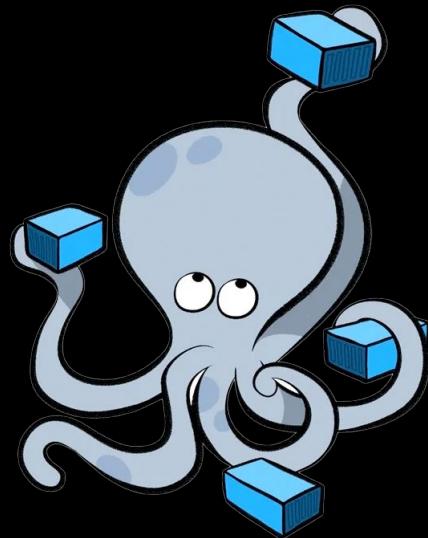
`docker build`

Define a custom image from a base with a Dockerfile

Demo:
Defining an image

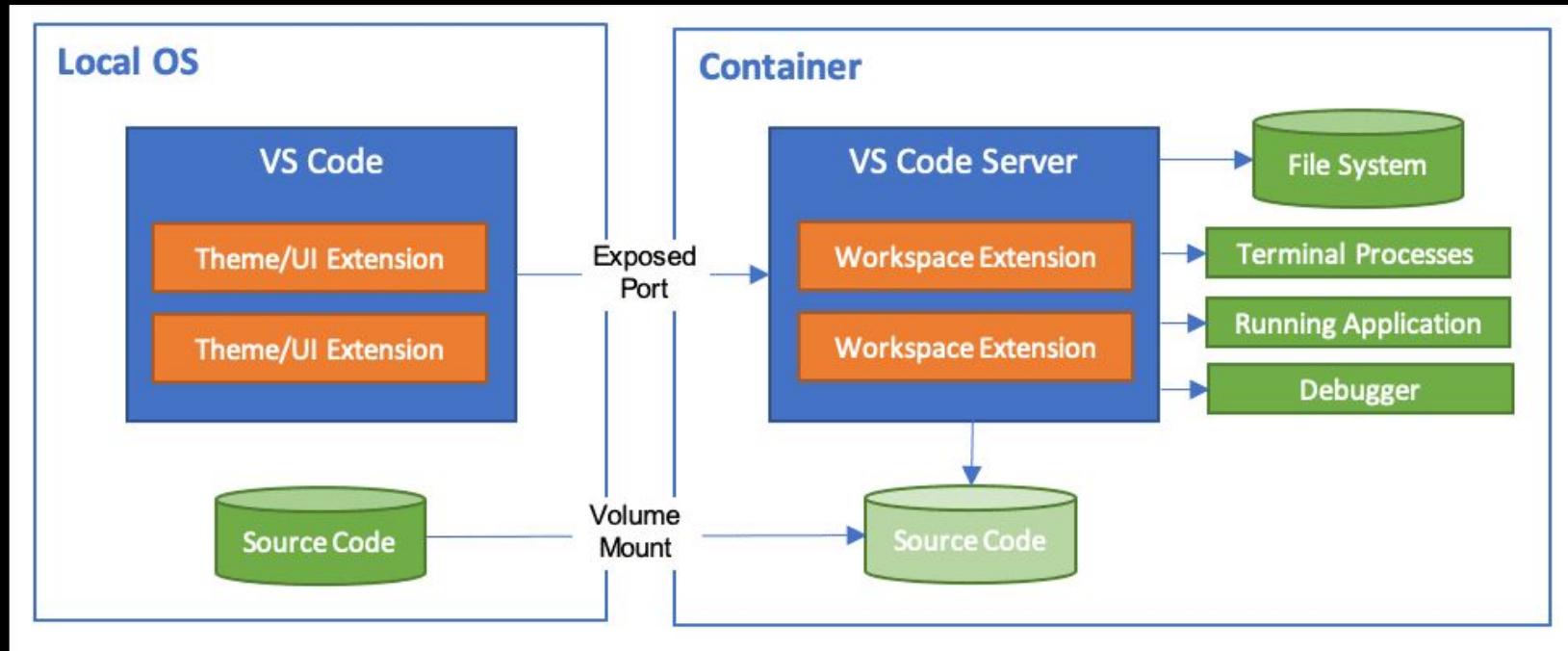
What about other services?

Create images from other images



Demo:
**Compose an image
from other images**

But how do I develop on one?



Requirements for a dev environment

“Live file changes”

Use volumes to connect to external directories

Extensions and plugins

The IDE needs to have the necessary tools

Don’t start without me

Let me control how and when things occur

Convert an app container to a dev container

Important things to note when using a dev container

Extension support
Extensions need to be
installed inside the dev
container

Necessary services
Need to start Docker

Common errors
Did you remember to start
Docker?

We're not launching rockets here



Demo:
Creating and
configuring a
dev container

Can we move this to the cloud?



GitHub Codespaces

Dev containers in the
cloud
No local install required

Can connect with local
IDE
VS Code and JetBrains
supported

Provides VS Code in the
browser
Develop on your Apple
Watch!

Prebuild for instant
access
Start the container in
seconds

Demo: Configuring and using a Codespace

Next steps

Containerize your environment
<https://gh.io/dev-containers>

Getting started with Codespaces
<https://gh.io/codespaces>

Thank you!

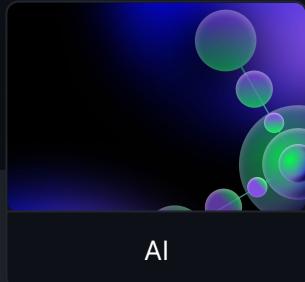
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THANK YOU

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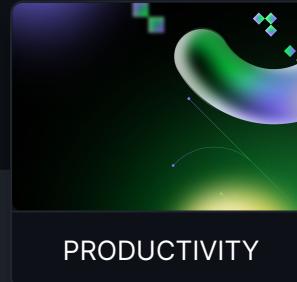
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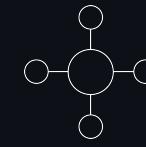
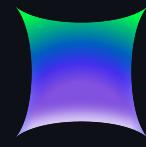
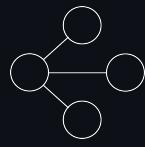
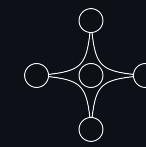
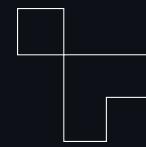
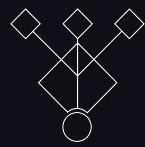
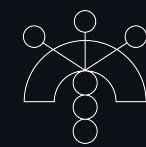


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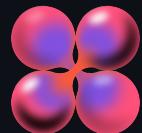
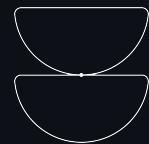
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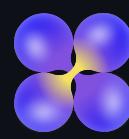
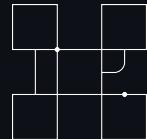
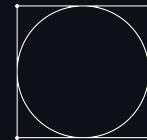
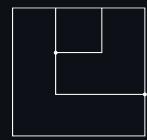
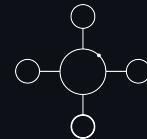
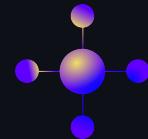
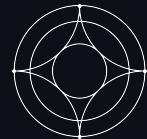
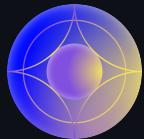
AI components



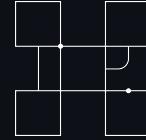
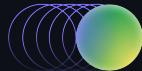
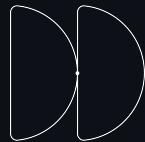
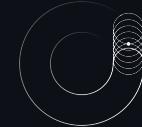
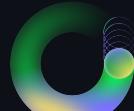
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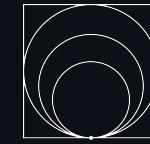
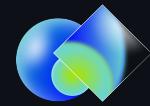
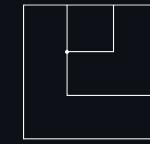
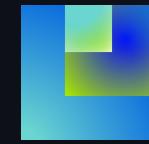
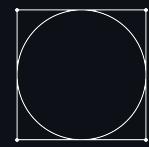
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Octicons

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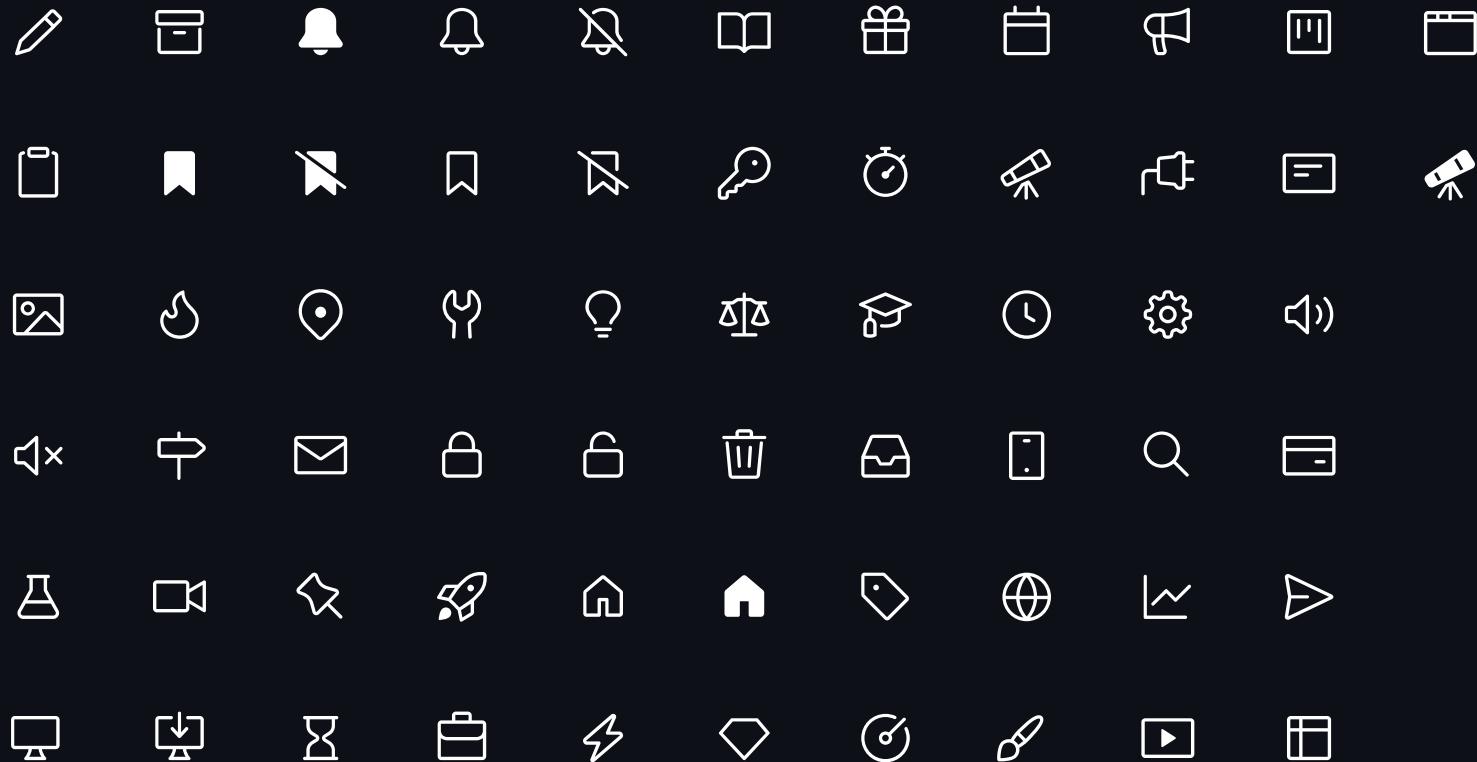


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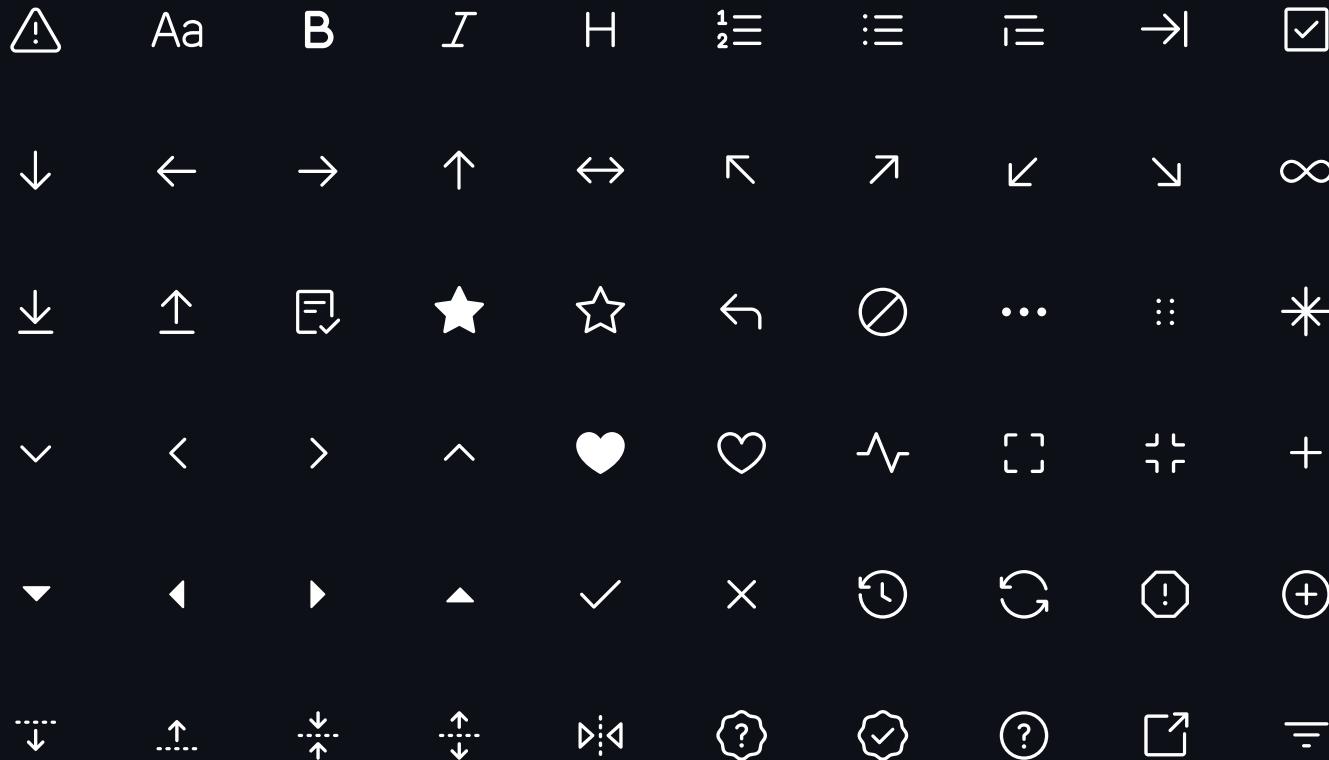
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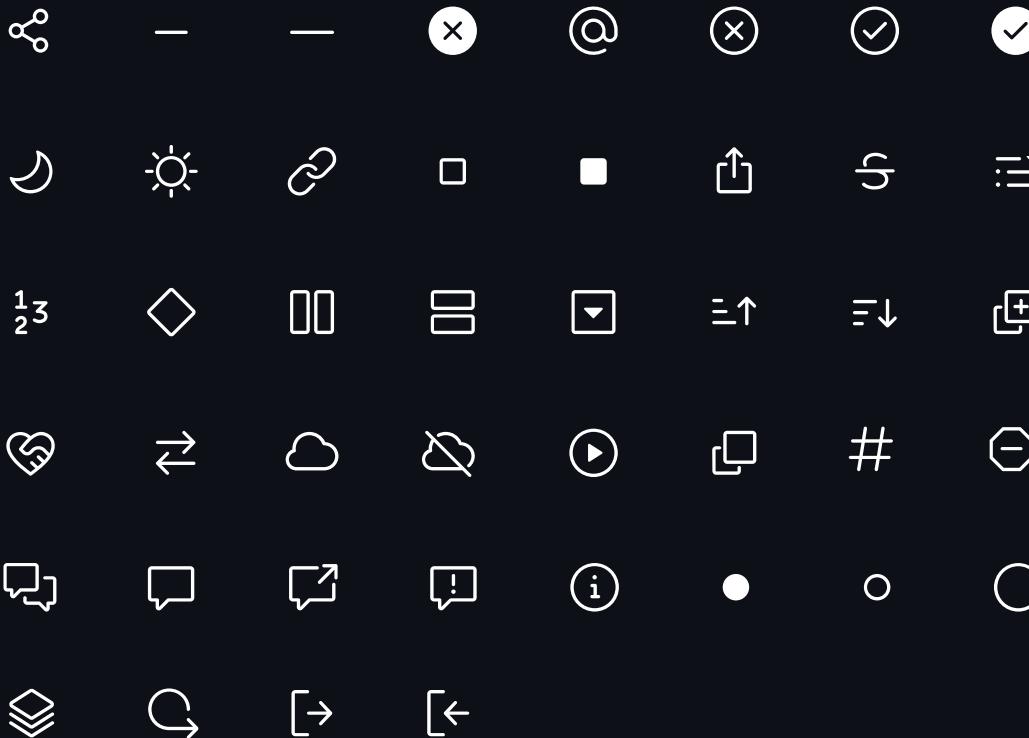
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Symbols



Symbols



Developer



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