EUROPEAN COLLABORATION
SUMMIT 2024

# Unleash Your Development Potential with Containers in the Microsoft 365 Universe!

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Microsoft MVP, MCT

EUROPEAN COLLABORATION SUMMIT

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for Swag!

# Top 3 win an Atari 2600+

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run events

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## Microsoft MVP, M365 Development

DMI Enterprise Architect

https://donkirkham.com

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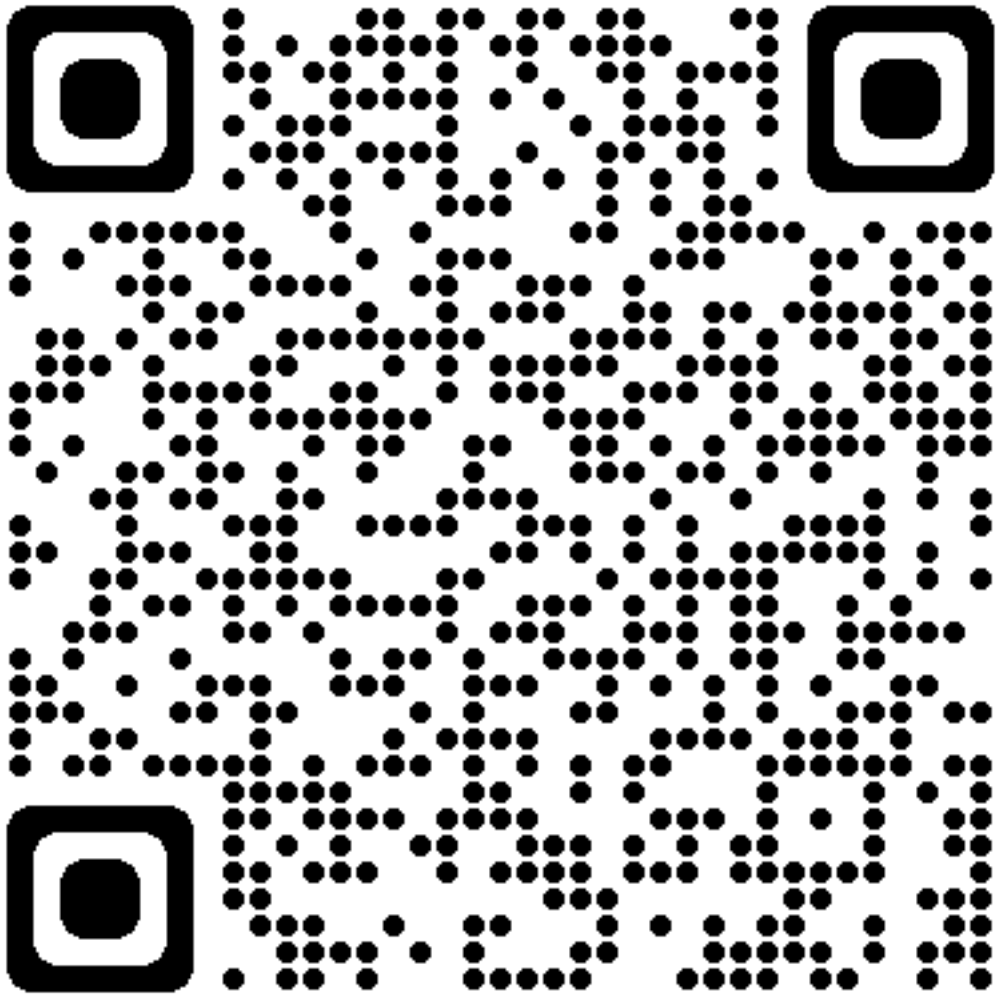


DMI

DIGITAL AT THE EDGE.
HUMAN AT THE CORE.

https://dminc.com

# Picture time!!!

# Agenda

01 What is the problem?

02 Is this new?

03 Does it work?

04 Is it worth it?

# The problem

- Multiple Projects
- Multiple Developers
- Multiple Machines
- SharePoint Framework

# Developer Environment

# SPFx development environment compatibility

As each new version of the SharePoint Framework is released, support for newer versions libraries is constantly added to ensure that the toolset remains up to date.

The following table lists SharePoint Framework and compatible versions of common tools and libraries:

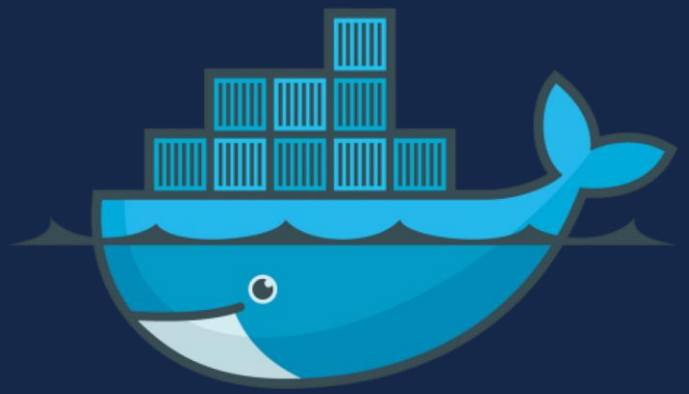
Expand table

| SPFx | Node.js (LTS) | TypeScript | React |
|---|---|---|---|
| 1.19.0 | v18 | v4.5, v4.7 | v17.0.1 |
| 1.18.2 | v16, v18 | v4.5, v4.7 | v17.0.1 |
| 1.18.1 | v16, v18 | v4.5, v4.7 | v17.0.1 |
| 1.18 | v16, v18 | v4.5, v4.7 | v17.0.1 |
| 1.17.4 | v16.13+ | v4.5 | v17.0.1 |
| 1.17.3 | v16.13+ | v4.5 | v17.0.1 |
| 1.17.2 | v16.13+ | v4.5 | v17.0.1 |
| 1.17.1 | v16.13+ | v4.5 | v17.0.1 |
| 1.17.0 | v16.13+ | v4.5 | v17.0.1 |
| 1.16.1 | v16.13+ | v4.5 | v17.0.1 |
| 1.16.0 | v16.13+ | v4.5 | v17.0.1 |
| 1.15.2 | v12, v14, v16 | v4.5 | v16.13.1 |
| 1.15.0 | v12, v14, v16 | v4.5 | v16.13.1 |
| 1.14.0 | v12, v14 | v3.9 | v16.13.1 |

# WHAT IS A DEV ENVIRONMENT?

# Solution is Containers!!

# HISTORY



## DOCKER

- ~2013
- Container Composing
- Container Hosting
- Lots of documentation

## VISUAL STUDIO CODESPACES

- Late 2019
- “Visual Studio Online”
- Azure Containers
- Deprecated

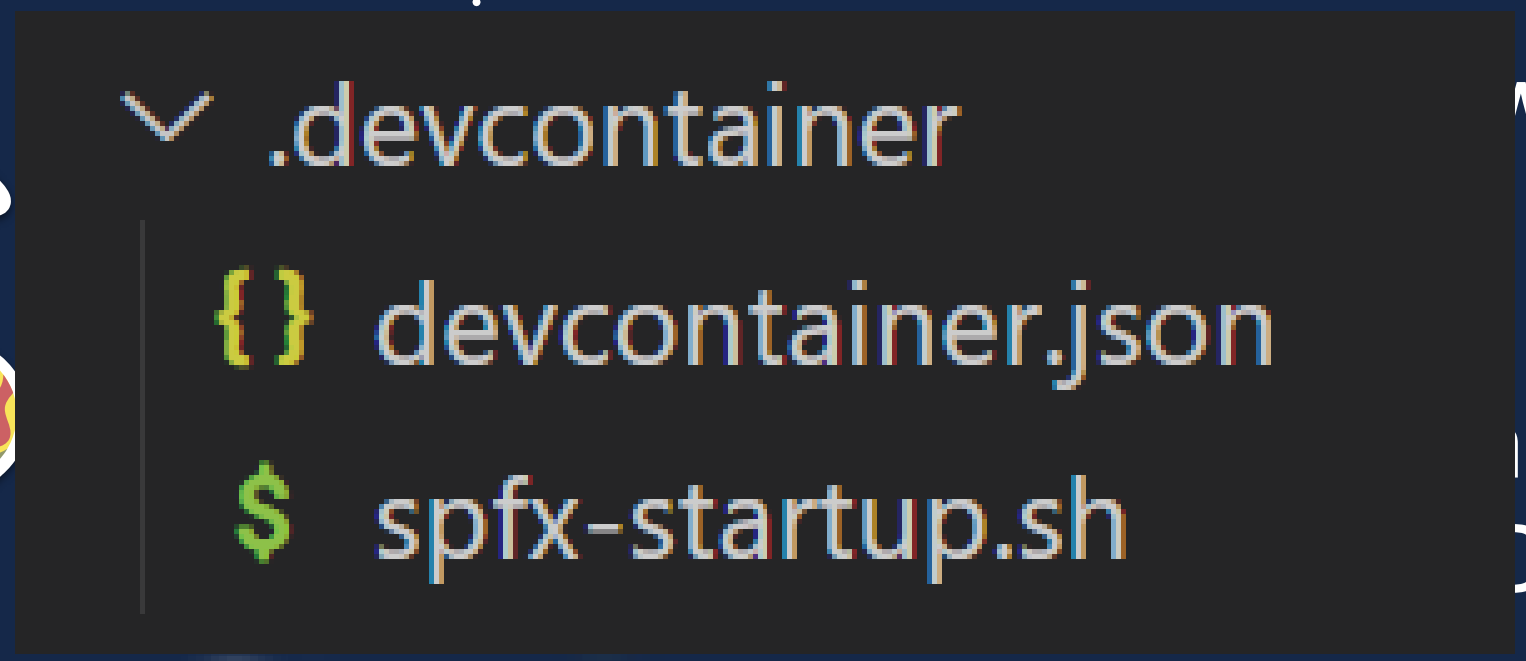
## GITHUB CODESPACES

- Summer 2020
- Private Preview
- Live by Feb 2021
- Still uses Azure Containers

# Docker Desktop

- https://docker.com
- Runs on your local machine
- WSL: Adjust settings to use WSL Engine

# Unleash the magic!




wizard

image

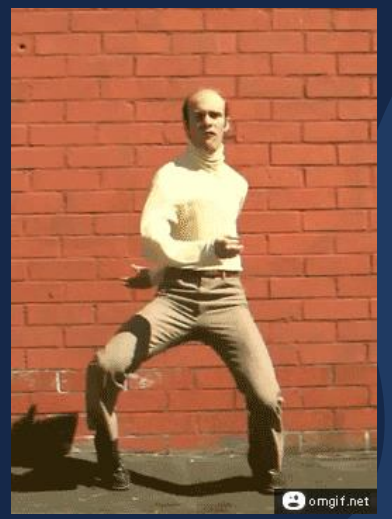
Dockerfile

or

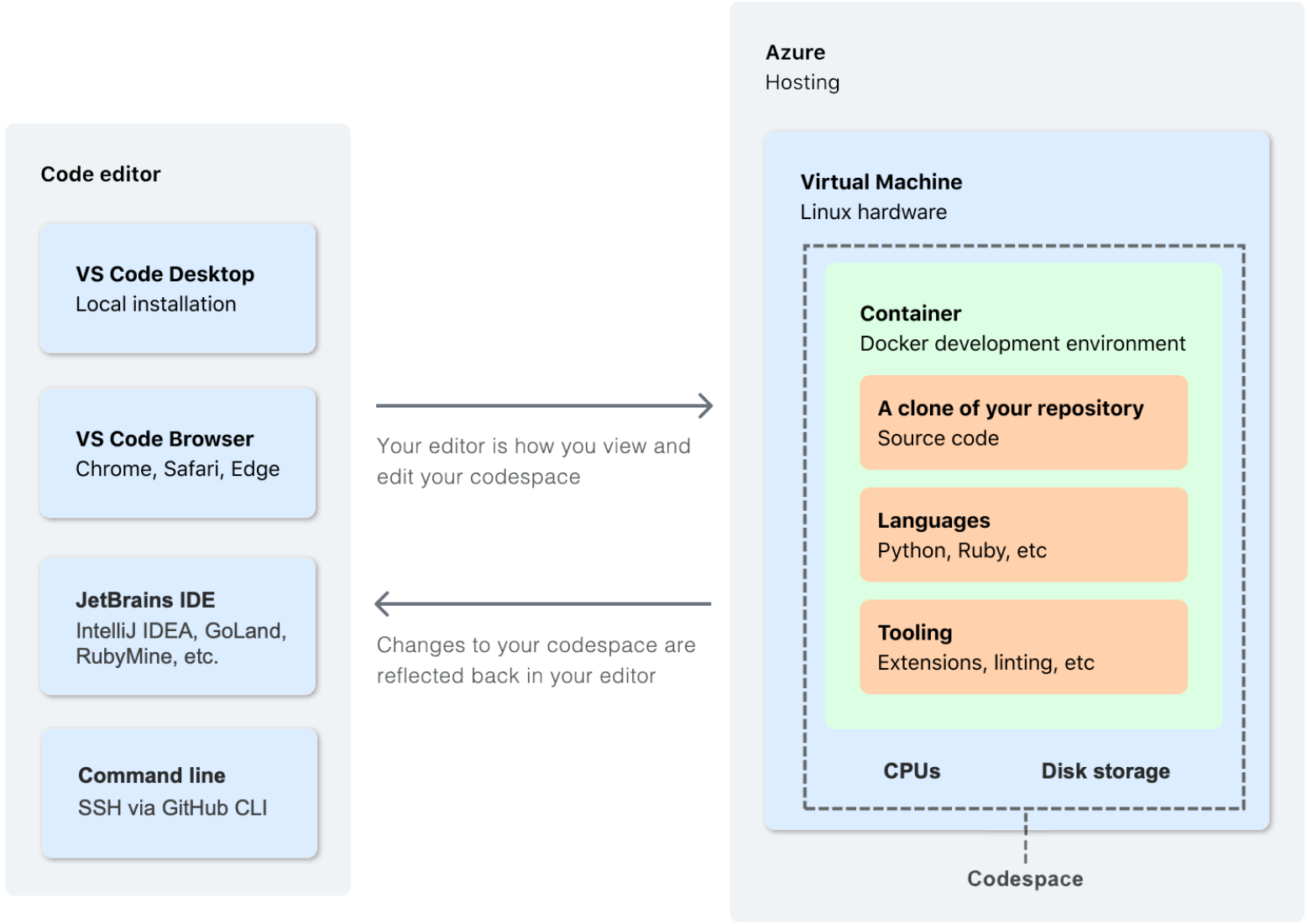
Use preconfigure image

# DEMO TIME!

Put on your dancing shoes and let’s have some fun!



# Codespaces

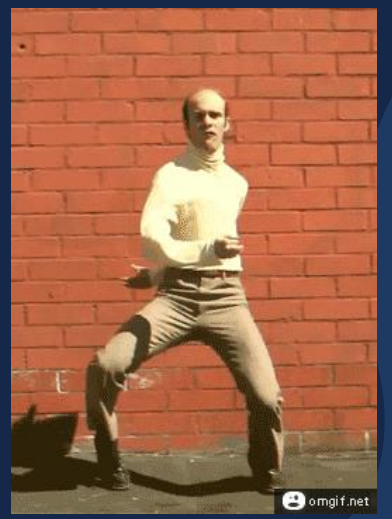

Code editor
VS Code Desktop
Local installation
VS Code Browser
Chrome, Safari, Edge
JetBrains IDE
IntelliJ IDEA, GoLand, RubyMine, etc.
Command line
SSH via GitHub CLI
Your editor is how you view and edit your codespace
Changes to your codespace are reflected back in your editor
Azure
Hosting
Virtual Machine
Linux hardware
Container
Docker development environment
A clone of your repository
Source code
Languages
Python, Ruby, etc
Tooling
Extensions, linting, etc
CPUs
Disk storage
Codespace

# Advantages

On-demand
Environment agnostic
Disposable
Performance
Costs

# DEMO TIME!

Put on your dancing shoes and let’s have some fun!



Microsoft 365 & Power Platform Community

BLOG COMMUNITY CALLS GUIDANCE SAMPLES & SOLUTIONS SDKS TOOLS TEAM

# MICROSOFT 365 & POWER PLATFORM COMMUNITY

Learn from others how to build apps on Microsoft 365 & Power Platform. Don't reinvent the wheel. Focus on what truly matters for your organization.

## Sharing is Caring!

aka.ms/m365/community

# THANK YOU,
# YOU ARE AWESOME ❤️

PLEASE RATE THIS SESSION IN THE MOBILE APP.

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