



DevContainers **What They Are** and **Why You Need** **Them**

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About Joe Guadagno



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JJG.ME/ABOUTJJG



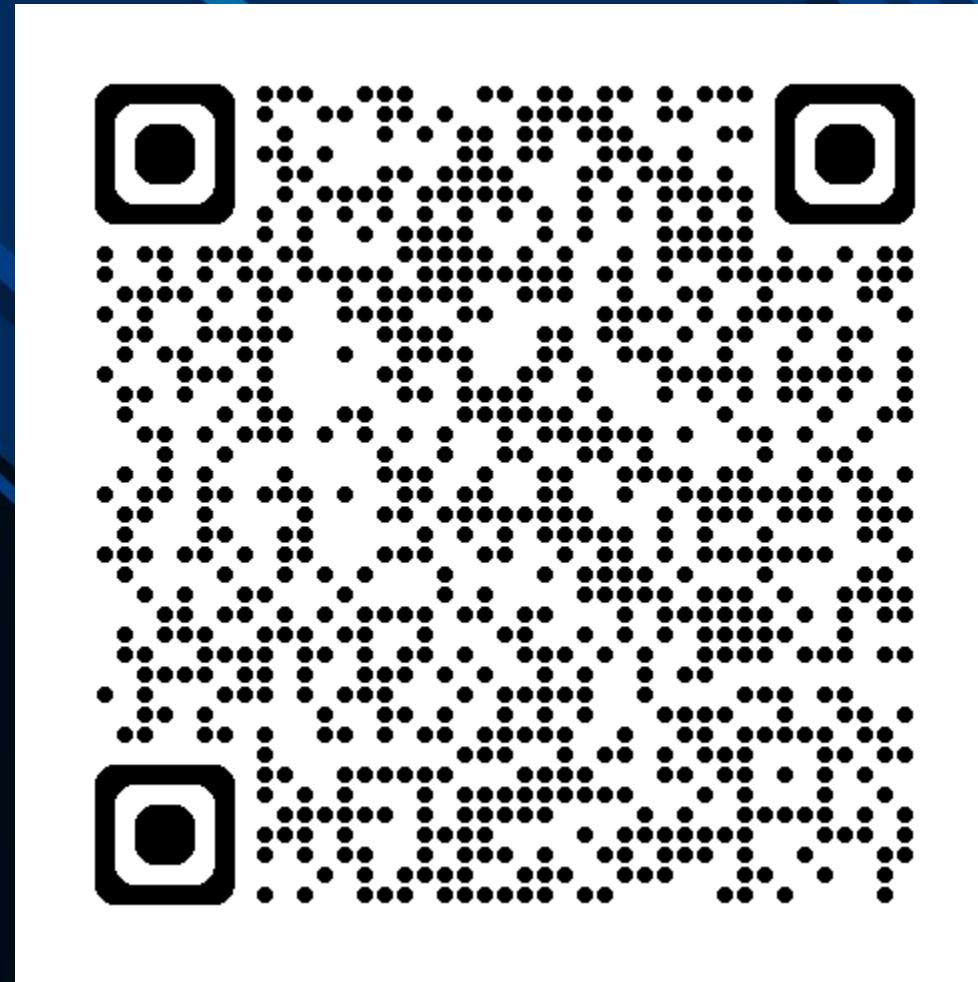
JJG.ME/GITHUB



JJG.ME/YOUTUBE

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Slide Deck, Source Code, and References



https://jjg.me/container_slides

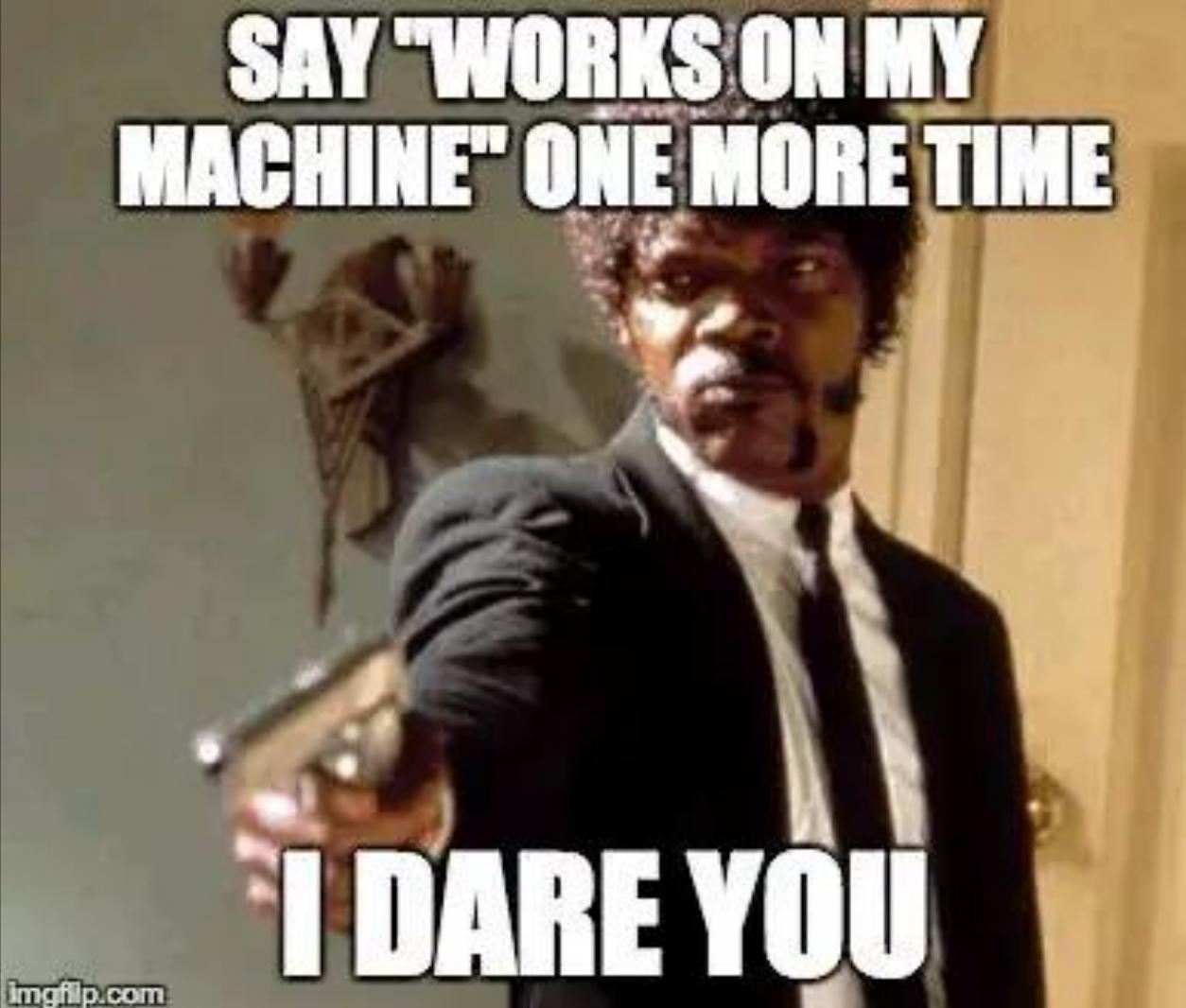
Agenda

Getting Started
What is a Developer Container
Build Containers
Customize the Containers
Using Container in VS Code
Multiple Containers
Opening on GitHub

Getting Started

Why?

**SAY "WORKS ON MY
MACHINE" ONE MORE TIME**



I DARE YOU

Requirements

Docker Desktop (macOS/Windows)

Docker CE/EE (Linux)

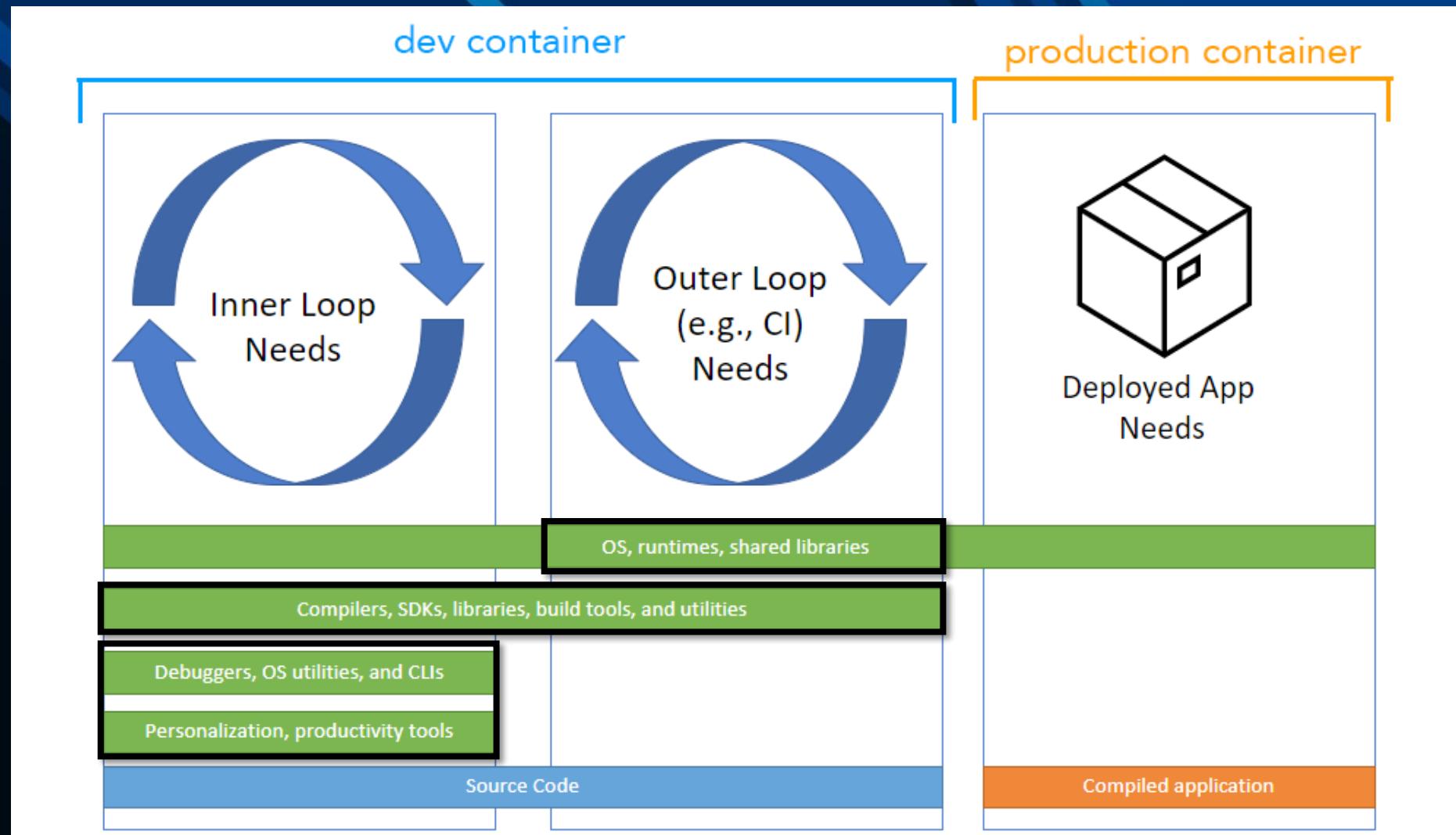
Rancher

Visual Studio Code

Dev Containers Extension

Build Some Containers

Development vs. Production



What Makes Up the Developer Container

Developer Container

Productivity Tools

Debuggers

Personalization

Feature

Compiler

Build Tools

Template

Operating System

Libraries/SDKs

Templates (Images)

Alpine

Debian

C#

C# and MS SQL

Java

Jekyll

Ruby

... and more

<https://containers.dev/templates>

Features (Add-ons)

AWS CLI

Azure CLI

Dotnet CLI

Hugo

PowerShell

NPM

... and more

<https://containers.dev/features>

Build a Developer Container

DevContainers.json Common Settings

Settings	Usage
<code>name</code>	A name for the dev container displayed in the UI.
<code>features</code>	A Dev Container feature id and related options to be added into your primary container.
<code>forwardPorts</code>	An array of port numbers or "host:port" values that should always be forwarded from inside the container.
<code>customizations</code>	Product specific properties
<code>remoteUser</code>	Overrides the user that devcontainer.json supporting services tools / runs as in the container (along with sub-processes like terminals, tasks, or debugging).
<code>postCreateCommand</code>	This command is the last of three that finalizes container setup when a dev container is created.
<code>postStartCommand</code>	A command to run each time the container is successfully started.

Source: https://containers.dev/implementors/json_reference/

Remember

IT WORKS ON MY MACHINE



Resources

Site	Url
JosephGuadagno.NET	https://jjg.me/mysite
jguadagno.github.io	https://jjg.me/blog_repo
Blog Post	https://jjg.me/container_post
Docker Desktop	https://www.docker.com/
Visual Studio Code	https://visualstudio.microsoft.com/
Remote Containers Extension	https://jjg.me/container_ext
Available Dev Container Features	https://containers.dev/features

Q & A



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