

Workflows for Reproducible Research with R & Git

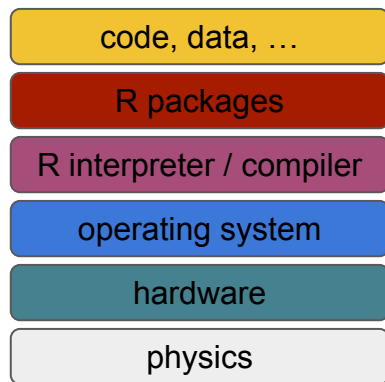
Saving computational environments

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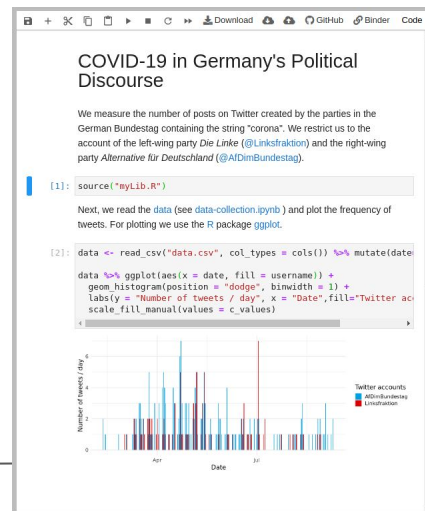
November 17th, 2022

Abstraction Layers



“Our analysis”

... and what we depend on.



Logic elements implemented in water.

<https://en.wikipedia.org/wiki/Fluidics>

In general **computational universality**.

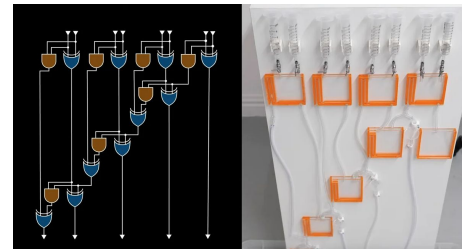
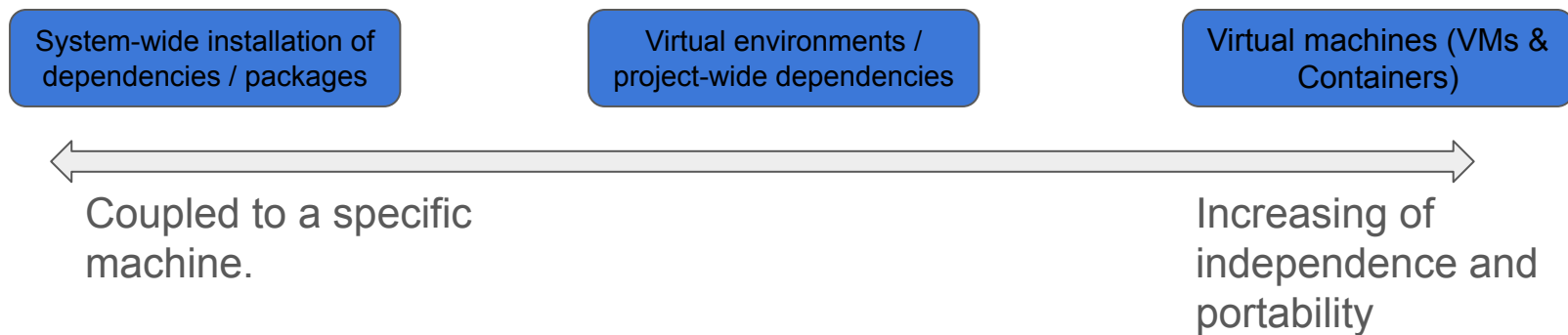
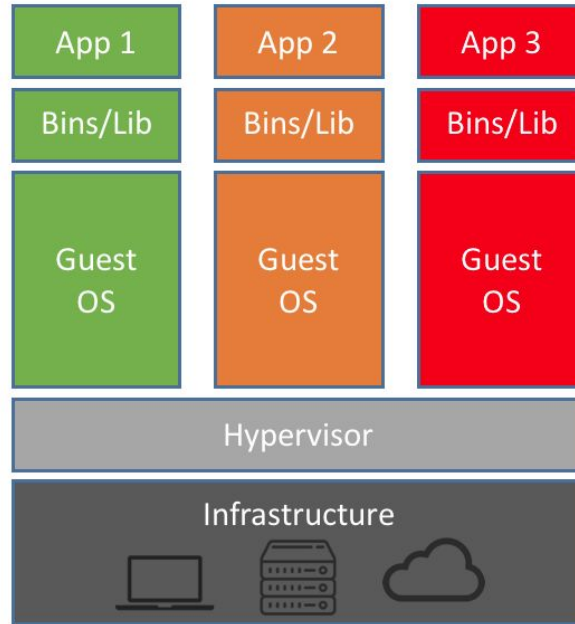


Image: <http://reddit.com>

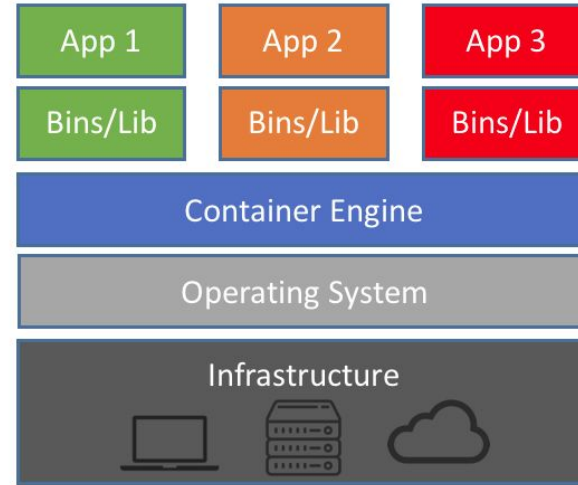
Gaining Independence



VMs vs. Containers



Machine Virtualization



Containers

Container Implementations

LXC:

(Linux Containers): Early implementation.

<https://linuxcontainers.org/>

Docker:

Popular and most widely used platform.

www.docker.com

Windows

Containers:

Similar to Docker but tailored to Microsoft.

<https://github.com/microsoft/Windows-Containers>

Podman:

Open-source Docker compatible implementation.

<https://podman.io/>

...

operating system

Docker:

Popular and most
widely used
platform.

www.docker.com

Let's try this



<https://github.com/arnim/rocker-demo2023>