

Zero-Setup Workshops with GitHub Codespaces

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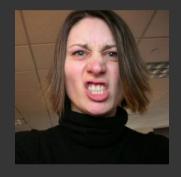


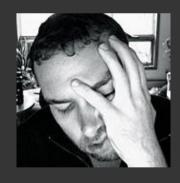
"It works on my machine..."



How do I install R?







But I'm running Debian...





Dev Containers

A standardized container setup, designed for running code

devcontainer folder in repository

Same experience for every user

100% Open Source, CLI for integration into other services

More info: https://containers.dev/

.devcontainer/Dockerfile

```
# R version: 4, 4.1, 4.0
ARG VARIANT="4"
FROM rocker/tidyverse:${VARIANT}
RUN install2.r --error --skipinstalled --ncpus -1 \
        devtools \
        tidyverse \
```

.devcontainer/devcontainer.json

Summary

Create tutorials / workshops as GitHub repositories Include scripts, data, notebooks, instructions

Include and configure Dev Container

Software environment to support code

Participants: Run in GitHub Codespaces

Available with GitHub Enterprise or GitHub Education

(or locally: github.com/revodavid/devcontainers-r)

Thank you!

Slides, links and Dev Container: github.com/revodavid/devcontainers-rstudio



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Microsoft Workshop Library

A library of AI/ML and Data workshops with Dev Container support and "train-the-trainer" videos

Topics include:

- Explore and Analyze Data with R
- Introduction to Regression Models with R and Tidymodels
- Introduction to Classification Models with R and Tidymodels

github.com/microsoft/workshop-library