Dockerizing a Shiny App

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Docker

Recap

- You have a model, app, etc.

- You want to share it or make it available

Docker - a 'container' to easily transport your code to others

- Include all relevant files (R, packages, etc.)

- No chance of code not running, bugs, etc. (if you've done things right!)

Dockerizing Shiny Apps

Article 1 and Article 2 on commands needed to Dockerize a shiny app

- If you can host your app somewhere, not really a need to dockerize...

Dockerizing a Shiny App

- Create app in a folder with all files needed (images, etc)

  - All paths relative!

- Pull appropriate docker image

  - `docker pull rocker/shiny-verse`

- Create the `DOCKERFILE`

- Build the image

  - `docker build -t <NAME> <DOCKERFILE PATH>`

  - If in directory of `DOCKERFILE`, just put '.' for path

- Deploy the image

  - Ex: `docker run -p 3838:3838 <NAME>`

Example Dockerization

Let's Dockerize a basic app

- An app to visualize bayes theorem