

# Lecture 8



Docker, Frontend Testing

# Docker

- Allows applications to run in isolated containers
- Much faster deployments
- Easier scaling - see for example Kubernetes
- Easier configuration
- An industry standard
- Applications will have to be dockerized and deployed like that
- See:

<https://testdriven.io/blog/dockerizing-django-with-postgres-gunicorn-and-nginx/>

- This is a 3-part series - read it carefully

# Frontend testing

- Until now we have focused on testing the backend code
- Frontend code can, and should, also be tested
- Two methods:
  - Unit testing - similar to what we did on the backend
  - End to End (E2E) testing - testing in an actual browser, with actual clicks and keystrokes
- We will be using Cypress:

<https://docs.cypress.io/guides/component-testing/react/quickstart>

<https://docs.cypress.io/guides/end-to-end-testing/writing-your-first-end-to-end-test>