Workshop Technology

JavaScript Frameworks

What is a framework?

- A framework is a library that offers **opinions** about how software gets built.
- These opinions allow for **predictability** and **homogeneity** in an application.
  - Predictability allows software to scale to an enormous size and still be maintainable.
  - Predictability and maintainability are essential for the health and longevity of software.

Vanilla JS or Framework?

- Vanilla JS
  - A less complex site, for example a personal to-do list or a site that displays mostly static content

- Framework
  - A large site with a complex UI. Frameworks provide solutions to common problems that would take an absurd amount of time and patience to implement with pure JavaScript.

Stack-Overflow survey 2023

https://survey.stackoverflow.co/2023/#section-most-popular-technologies-web-frameworks-and-technologies

React

Get started with `react`

- `pnpm create vite`
  - `Project name` : vite-project
  - `Select a framework` : React
  - `Select a variant` : Typescsript + SWC
- `cd vite-project`
- `pnpm install`
- `pnpm run dev`

Build

- `pnpm run build`

Preview

- `npm run preview`

Deploy

- Deploy `./dist` folder to Netlify.