

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: `Typescript + SWC`
- `cd vite-project`
- `pnpm install`
- `pnpm run dev`

Build

- `pnpm run build`

Preview

- `npm run preview`

Deploy

- Deploy `./dist` folder to Netlify.

Telegram message sender

- Get code by asking `Cloude`
 - *"Write a react application that can send message to Telegram using TailwindCSS and no component library."*
- `pnpm install lucide-react`
- Remove `import './index.css'` in `main.jsx`
- Add following in `index.html`

```
<script src="https://cdn.tailwindcss.com"></script>
```

- You might need to add proxy server.
 - `https://cors.iecmu.com`