The qwik workshop

Another front-end framework?



⊘ SVELTE



■ O awil

S

📕 🐧 astro

The selling points

- Resumability
- Familiar dx



Time to get your hands dirty

- We'll be building a small app for listing the past Knowit JS guild meetings
- The app has already been built using Next.js
- Your job: transfer that app to Qwik
- https://qwik.builder.io/docs/
- https://github.com/cybercom-finland/code-forward-23
- 1. Clone the repo `git clone
 git@github.com:cybercom-finland/code forward-23.git`
- 2. Go to `./qwik/next/` and run `npm install &&
 npm run build && npm start`

Step 1: Skaffold Qwik and load data

```
# Go to ./qwik
npm create gwik@latest
# use e.g. qwik-yourname as the project name and select "Emp
# Install these additional depencies,
npm install @amcharts/amcharts5 rambda amcharts capitalize @t
# Alternatively: use ./qwik/qwik-empty
export const useGuildList = routeLoader$(async () ⇒ {
  const data = // await fetch etcd
  return data;
});
export default component\$(() \Rightarrow \{
  const guildListSignal = useGuildList();
  // guildListSignal.value
  return <div></div>
```

 Edit routes/src/index.tsx so that it displays the guild list found at `./qwik/common/guildlist.json` as a json string

Treat the loading of guildlist.json as server-side data fetching in the Next.js version

Boilerplate can be copied from

```
`./qwik/samples/index.tsx` -->
```

`./qwik/qwik-

yourname/src/routes/index.tsx`

Step 2: Port GuildList and GuildItem to qwik

- next/src/components/GuildList.tsx --> `qwik/qwik-juho/src/components/GuildList.tsx`
- next/src/components/GuildItem.tsx --> `qwik/qwik-juho/src/components/GuildItem.tsx`
- next/src/app/globals.css --> `qwik/qwik-juho/src/global.css`
- Render GuildList with the prefetched data in `routes/index.tsx`
- component\$`
- onClick\$`
- class`
- `GuildItem` needs some trimming at this point, we'll add the missing logic later:
 - comment out `useStates` and `useEffects`
 - make onClick-handlers just return null
 - hard-code `showStats` to `false`

```
<main><GuildList guilds={guildListSignal.value}/></main>
// next/components/GuildList
                                                         // ./qwik/components/GuildList
                                                          export default component<Props>((props) \Rightarrow {
export const GuildList: FC<Props> = (props) ⇒ {
 if (!Array.isArray(props.guilds)) return;
                                                           if (!Array.isArray(props.guilds)) return null;
                                                           return (
 return (
   < 111>
                                                             < [1] >
     {props.guilds.map((repo) ⇒ )}
                                                               {props.guilds.map((repo) ⇒ )}
   );
                                                           );
                                                          });
```

// ./src/routes/index.tsx

Step 3: Port SideBar and add the interactions

- inext/src/components/SideBar.tsxi --> iqwik/qwik-juho/src/components/SideBar.tsxi
- Render `SideBar` besides GuildList at `routes/index.tsx`
- Convert the `useContext` + `useReducer` combo to a context + store combo
 - start by just:

```
//const state = useContext(MainContext);
//const dispatch = useContext(MainDispatchContext);
const state = { favouriteGuild: undefined, showAllStats: false };
```

Use Qwik's version of context combined with a store to set the logic inside side bar and guildItem (we'll do
this together soon, but feel free to advance by yourself)



Let's deal with that store thing together...

Create a context in `routes/index.tsx`

```
export const CTX = createContextId<AppState>("some.id");
```

2. Create a store

```
const appData = useStore({
    favouriteGuild: "",
    showAllStats: false
})
```

3. Set the created store as the value of the created context

```
useContextProvider(CTX, appData);
```

Inside `./components/SideBar.tsx`

1. use the context

```
const state = useContext(CTX);
```

2. Change the state:

```
<button
  onClick$={() \Rightarrow {
    state.showAllStats = !state.showAllStats;
  }}
>
```

3. Your job: adjust the logic for setting a favourite guild inside `./src/components/GuildListItem.tsx`

Step 4: Add stats to GuildItem and finalize

- Use the sample: `./qwik/samples/RepoStats.tsx` --> `./qwikyourname/src/components/RepoStats.tsx`
- In GuildItem: Add logic for showing and hiding based on either local or global state

```
const showStats = useSignal(false);
useTask$(({ track }) \Rightarrow {
   track(() \Rightarrow state.showAllStats);
   showStats.value = state.showAllStats;
});
```

...and render the RepoStats component

```
<div>
   {showStats.value ? <RepoStats name={repo.name} /> : Stats hidden}
</div>
```

Testing and comparing

- Stop the `npm run dev` of your quick app
- Start again by running `npm run preview`
- Open your network tab, disable cache and set throttling to slow 3g