

Building React Apps with TypeScript

Configuring TypeScript in a React Application



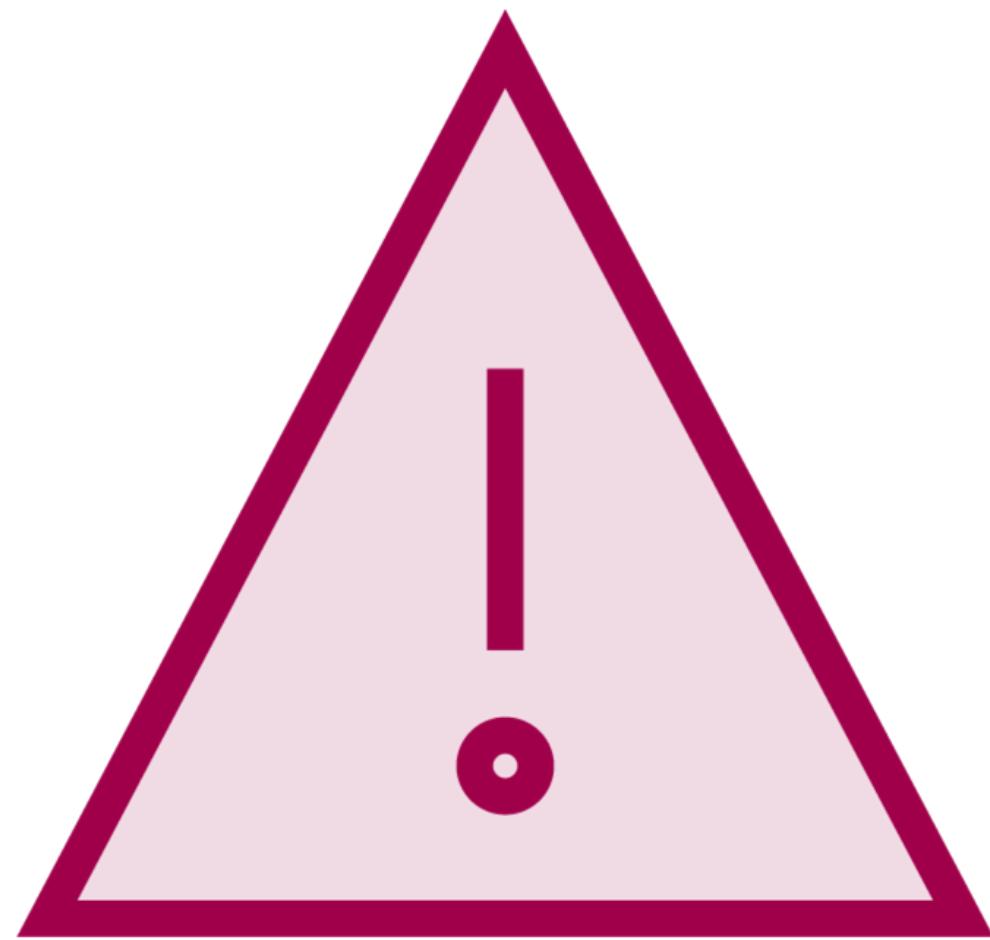
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Overview



- **Configuring TypeScript**
 - Starting a project from scratch
 - Working with an existing app
- **Components and Props**
 - Class components
 - Function components
- **Using Hooks with TypeScript**
 - State, context, etc.
 - Custom hooks
 - Fetching data



Knowledge of React is required

Knowledge of TypeScript is helpful



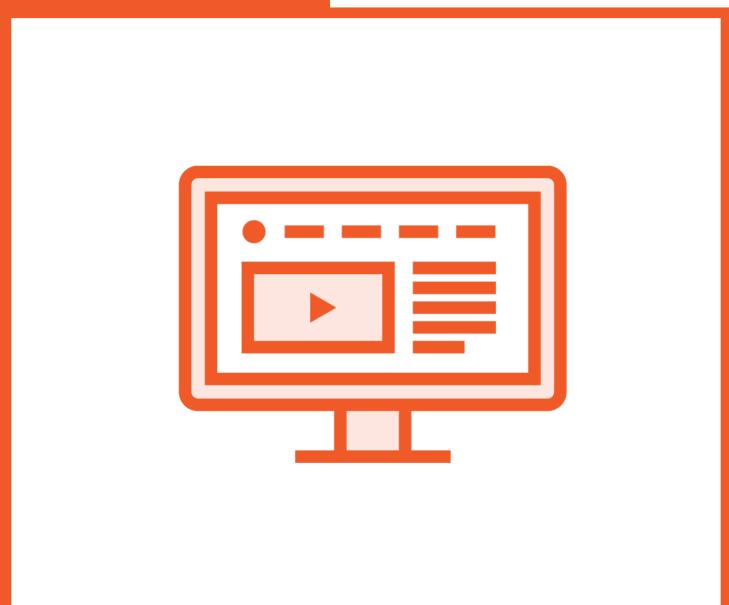
**For fundamental
React Knowledge...**

React: Getting Started
Peter Kellner



**For more about
React hooks,
specifically...**

Using React Hooks
Peter Kellner



**For fundamental
TypeScript
concepts...**

TypeScript: Getting Started
Brice Wilson



A real-world example
application...

**Securing a GraphQL API
with Apollo**

Mat Warger

<https://github.com/mwarger/globomantics-react-ts>

Demo



- **Creating an application with TypeScript support**
 - **Using the `create-react-app` CLI**
 - **Comparing project output**

CLI Options

create-next-app - <https://nextjs.org>

create-snowpack-app -
<https://www.snowpack.dev/>

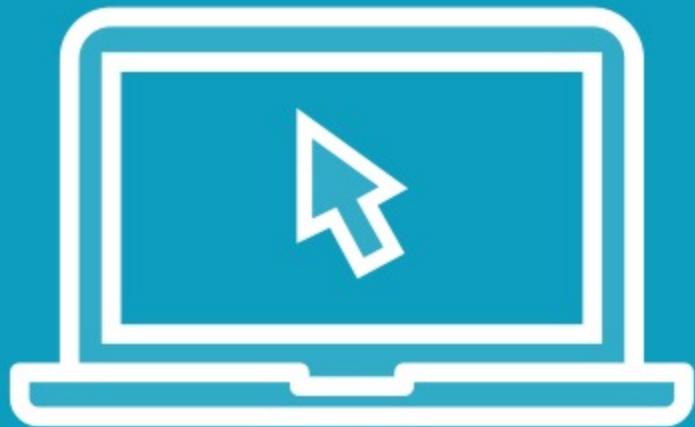
Nx - <https://nx.dev/>

Gatsby - <https://www.gatsbyjs.com/>

TSDX - <https://tsdx.io/>

... and more

Demo



- **Globomantics Conference Website**
 - **Sessions and Speakers**
- **Update to use TypeScript**
 - **Type-safe development**
 - **create-react-app toolset**
 - **Incremental adoption**
 - **Same foundation**

Summary



- **TypeScript configured for new and existing projects**
 - **create-react-app simplifies setup**
 - **Incremental updates**

Up Next:

Declaring Components and Props using
TypeScript
