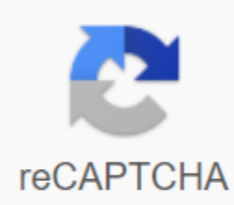




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React js tutorialspoint pdf

This tutorial does not involve any existing Knowledge Of React. Before we start the tutorial we will build a small game during this tutorial. You may be tempted to miss it because you don't build games - but give it a chance. The techniques you learn in the tutorial are fundamental to building any React application, and mastering it will give you a deep understanding of React. Tip This tutorial is designed for people who prefer to learn by doing. If you prefer to learn concepts from scratch, check out our step-by-step guide. You can find this tutorial and guides complement each other. The tutorial is divided into several sections: You don't have to complete all the sections at once to get value out of this tutorial. Try to get as far as you can - even if it's one or two sections. What are we building? In this tutorial we will show how to build an interactive tick-to-knock game with React. You can see what we will build here: The final result. If the code doesn't make sense to you, or if you're not familiar with code syntax, don't worry! The purpose of this tutorial is to help you understand React and its syntax. We recommend that you check out the tick-to-knock game before continuing with the tutorial. One of the features that you will notice is that there is a omemer list to the right of the game board. This list gives you a history of all the moves that occurred in the game, and it is updated as the game progresses. You can close tick-to-take games as soon as you are familiar with it. We'll start with a simpler template in this tutorial. Our next step is to set you up so that you can start building the game. Premise We assume that you have some familiarity with HTML and JavaScript, but you should be able to follow along even if you come from another programming language. We'll also assume that you're familiar with programming concepts such as features, objects, arrays, and, to a lesser extent, classes. If you need to view JavaScript, we recommend reading this guide. Please note that we also use some features from ES6, the recent version of JavaScript. In this tutorial we use the functions of arrows, classes, albeit const statements. You can use Babel REPL to check what the ES6 code compiles. Setting up for a tutorial there are two ways to complete this tutorial: you can either write the code in your browser, or you can customize the local development environment on your computer. Setting up Option 1: Write code in your browser Is the fastest way to get started! First, open this starter code in the new tab. The new tab should display an empty tic-tac-toe board and React code. We will edit the React code in this tutorial. You can now skip the second option and go to the Review section to get a React review. Option 2: Local development development This is completely optional and is not required for this tutorial! Optional: Instructions for following along locally using your preferred text editor This setup requires more work but allows you to complete the tutorial with the help of the editor of your choice. Here are the steps to follow: npx create-responsive-app my-app Delete all files in the src/new project note folder. Don't delete the entire src folder, just the original files inside it. The next step is to replace the original files with default examples for this project. CD my-app CD src rm -f and del th CD .. Add a file called index.css to the src/css folder. Add a file called index.js to the src/folder folder with this JS code. Add these three lines to the top of index.js in the src/: Import React from 'react'; ReactDOM import from reaction-home; Imports './index.css'; Now, if you run npm, start in the project folder and in the browser, you'll see an empty tick-tok-so-nou box. We recommend following these instructions to set up a selection syntax for your editor. Help, I'm stuck! If you're stuck, check out community support resources. In particular, Reactflux Chat is a great way to get help quickly. If you have not received an answer, or if you are stuck, please submit a question and we will help you. Review Now that you're tuned in, let's review React! What is a reaction? React is a declarative, efficient, and flexible JavaScript library for building user interfaces. It allows you to make complex UIs out of small and isolated pieces of code called components. React has several different types of components, but we'll start with The React.Component subclass: The ShoppingList class expands React.Component and render () (s); We'll soon get to the fun XML tags. We use components to tell React what we want to see on the screen. When our data changes, React will effectively update and redraw our components. Here, ShoppingList is a React component class or a type of React component. The component accepts parameters called props (short of property) and returns the view hierarchy to display using the rendering method. The rendering method returns a description of what you want to see on the screen. React takes the description and displays the result. Specifically, visualization returns the React element, which is an easy description of what to visualize. Most React developers use a special syntax called JSX, which makes it easier to write these structures. The syntax is converted during assembly ('div'). Приведенная выше пример эквивалентна: return React.createElement('div', «className: 'shopping-list', React.createElement('h1',),),); See the full extended version. If you're interested, createElement is described in more detail in the API link, but we won't use it in this tutorial. Instead, we will continue to use JSX. JSX comes with full JavaScript power. You can put any JavaScript expression in brackets inside JSX. Each React element is a JavaScript object that can be stored in a variable or transmitted in a program. The ShoppingList component above only displays the built-in components of the DOM, such as the zlt'div'gt;ltand the zlt'gt;lt. But you can compose and visualize the custom components of React too. For example, we can now refer to the entire shopping list by writing a shopping list. Each React component is encapsulated and can work independently; this allows you to create complex AI from simple components. Check the start code If you're going to be working on a tutorial in your browser, open this code in a new tab: Starter Code. If you're going to work on the tutorial locally, instead open src/index.js in the project folder (you've already touched this file while you're setting it up). This starter code is the basis of what we are building. We've provided CSS style so that you only need to focus on learning React and programming tick-to-take games. When you check the code, you'll notice that we have three React components: the Square component displays one, and the board has nine squares. The game component displays a board with placeholder values that we'll change later. There are currently no interactive components. Transfer data through props To get our feet wet, let's try to transfer some data from our board component to our component square. We strongly recommend entering the code manually as you work through the tutorial rather than using copy/paste. This will help you develop muscle memory and better understanding. In the renderSquare Council method, change the code to convey props called value to square: The Council class expands React.Component - renderSquare () Change Square visualization method to show this value by replacing TODO with this.props.value: class square extends React.Component (component) zlt'button className='square'gt;lt;buttongt; Before: You should see the number in each square in the visualized output. See the full code at the moment Congratulations! You've just passed the props from the parent board component to the children's square component. Transferring props is how information flows in React apps, from parents to children. Create an interactive component Let's fill in the Square X component when we click on it. First, change the button tag that returns from the component rendering function () <button className=square onclick={function() [= alert('click');=]}=></button> на эту: класс Square расширяет React.Component</button> и render () - return ((); If you click on the square now, you should see the alert in your browser. Note To save the typing and avoid the confusing behavior of this, we will use the arrow syntax function for event handlers here and beyond below: square class expands React.Component (button className) square onclick (/lt;)/button/lt; Note, as with onClick () warning ('click') (React will only trigger this feature after clicking. Forgetting and writing on 'click'alert' is a common mistake, and will shoot alerts every time the component re-makes. As a next step, we want the Square component to remember what was clicked on and fill it with the X mark. To remember things, components use a state. React components can have a status, placing this.state in its designers. this.state should be seen as a private component of React, to which it is defined. Let's save the current value of the area in this.state, and change it when the square is clicked. First, we'll add a constructor to the class to initiate the state: the class square extends React.Component - constructor (props) - super (props); The value of the javascript, null, note JavaScript classes, you should always call super when determining a subclass designer. All React component classes that have a constructor should start with a super (props) method of rendering Square to display the current state value when clicked: Replace this.props.value at this.state.value. After these changes, the tag returned by Square's rendering is as such: Square class expands the button-gt.Component - constructor (props) - super (props); this.state - value: null, q; - render () - return q (this.setState(meaning: 'X'); , we're talking React to re-set aside this area whenever it's pressed. After the update, the area of this.state.value will be 'X', so we'll see X on the game board. If you click on any area, X should appear. When you call setState in the React component, it automatically updates the children's components inside it. Viewing the full code at the moment, the React Devtools extension for Chrome and Firefox allows you to check the tree of React components using the browser developer's tools. React DevTools will allow you to check out the props and the button </button> </button> React. Once you install React DevTools,

