

### What is React.js?



Leading JavaScript framework;  
complex interactivity



App is broken down into small  
units called components; Claude  
makes components



### HTML Artifacts vs. React.js Artifacts



#### HTML Artifacts

- Lower learning curve
- Run standalone
- Lower ceiling for interactivity (though you can still do quite a bit)



#### React.js Artifacts

- Higher learning curve
- Run inside a React.js app
- Higher ceiling for interactivity

## React.js: Batteries Included



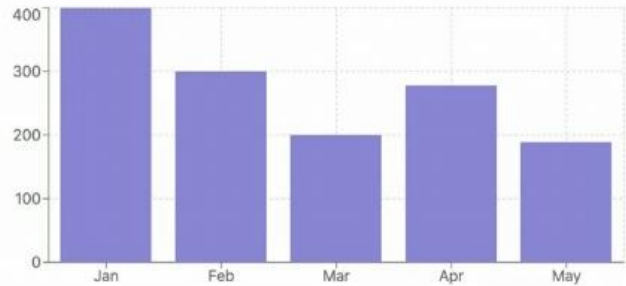
- Shadcn-ui
- TailwindCSS
- Recharts.js
- Lucide Icons

### Subscriptions

2,350

▲ 1.5% from last month

### Monthly Revenue



### Prompt Example:

Generate a React Artifact for a recipe planner. The planner should allow the user to select a recipe, render that recipe, and display a grocery list with checkboxes for all of the recipe's ingredients. There should also be a number input that can set the desired servings of the recipe, and the quantities of ingredients should change appropriately with the serving count. Use shadcn-ui and Tailwind to create a sleek, attractively styled user interface, using color, and design.

The screenshot shows the Claude AI interface with a prompt and a generated React component. The prompt asks for a React component for a recipe planner using shadcn-ui and Tailwind. The response includes a detailed breakdown of features and a code artifact.

**Prompt:**

Use shadcn-ui and Tailwind to create a sleek, attractively styled user interface, using color and design.

**Response:**

Certainly! I'll create a React component for a recipe planner with the features you've requested. I'll use shadcn/ui components and Tailwind CSS for styling to create an attractive and functional interface.

**React Component: Recipe Planner**

I've created a React component for a recipe planner that meets your requirements. Here's a breakdown of the main features:

1. Recipe Selection: Users can choose from a list of recipes using a Select component from shadcn/ui.
2. Servings Adjustment: There's an input field to adjust the number of servings, which updates the ingredient quantities accordingly.
3. Recipe Display: The selected recipe's name and instructions are displayed in a card.
4. Grocery List: Ingredients are listed with checkboxes, allowing users to mark items as they shop.
5. Responsive Design: The layout adjusts for different screen sizes using Tailwind's responsive classes.
6. Styling: The component uses shadcn/ui components and Tailwind CSS for a sleek, modern look.

To use this component, you'll need to have shadcn/ui components and Tailwind CSS set up in your project. The component uses several shadcn/ui components like Select, Card, Checkbox, and Input.

Would you like me to explain any part of the code in more detail or make any modifications?

**React Component: Recipe Planner**

Select a Recipe: Spaghetti Carbonara

Servings: 4

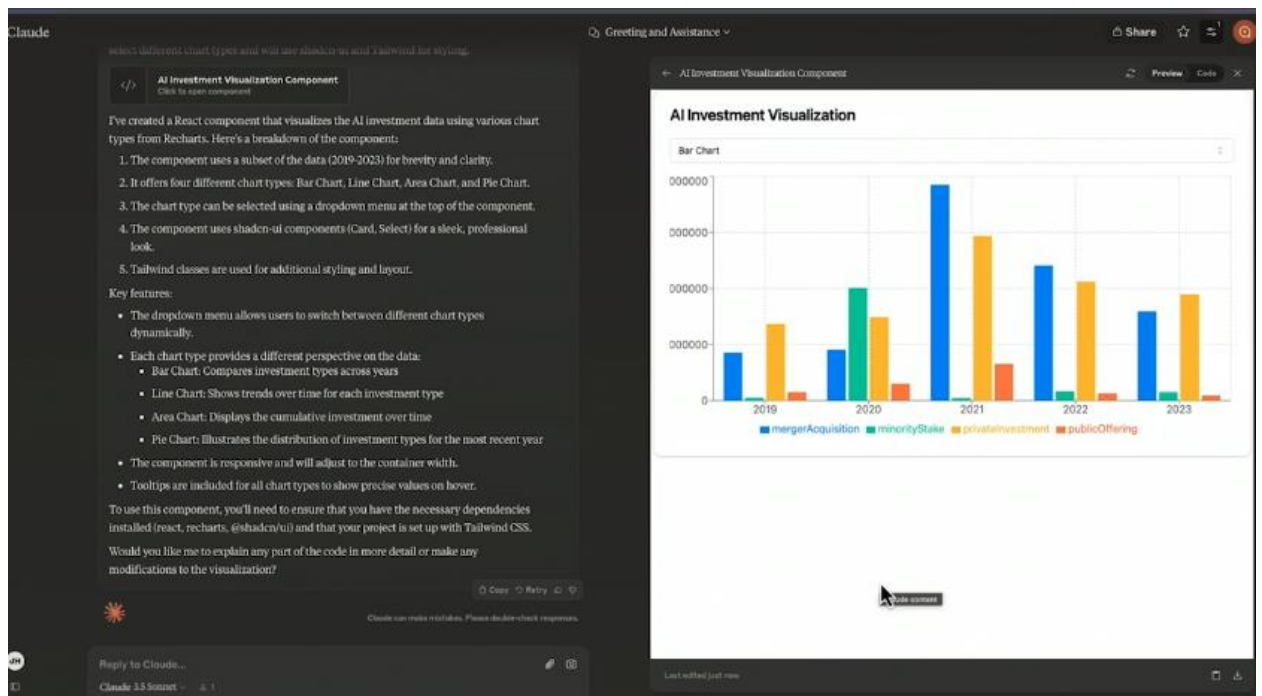
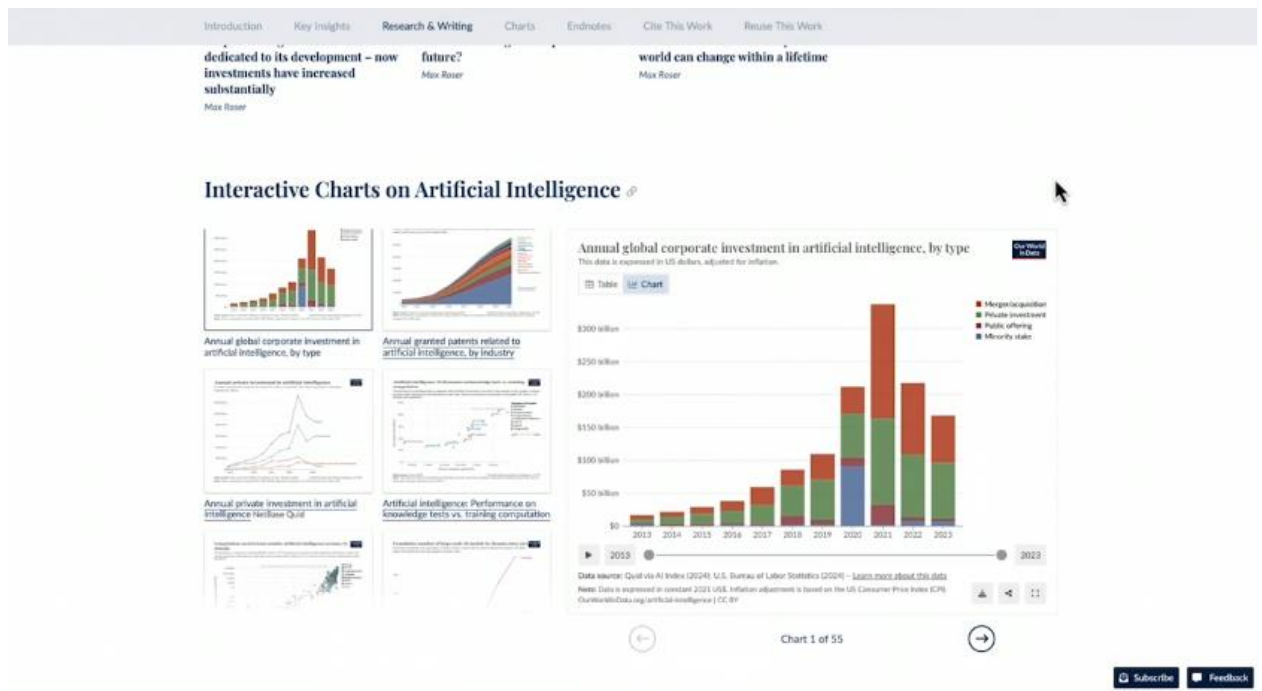
**Spaghetti Carbonara**

**Instructions:**

1. Cook spaghetti in salted water until al dente.
2. Fry pancetta until crispy.
3. Whisk eggs and cheese together.
4. Toss hot pasta with pancetta, then egg mixture.
5. Season with black pepper and serve immediately.

**Grocery List**

- ☐ Spaghetti: 400.0 g
- ☐ Pancetta: 150.0 g
- ☐ Eggs: 4.0
- ☐ Parmesan cheese: 50.0 g
- ☐ Black pepper: 2.0 tsp



## Prompt

Generate a React Artifact for a recipe planner. The planner should allow the user to select a recipe, render that recipe, and display a grocery list with checkboxes for all of the recipe's ingredients. There should also be a number input that can set the desired servings of the recipe, and the quantities of ingredients should change appropriately with the serving count. Use shadcn-ui and Tailwind to create a sleek, attractively styled user interface, using color, and design.

The user should be able to select among different recipes.

Recipe Planner

Select Recipe

Pasta Carbonara

Servings

1

Pasta Carbonara Ingredients

☐ Spaghetti - 100.0 g

☐ Eggs - 1.0 pc

☐ Pancetta - 50.0 g

☐ Parmesan Cheese - 30.0 g

☐ Black Pepper - 1.0 tsp

>

Recipe Steps (5)

Can you give me the folder and file structure that I should create to implement the code you just gave me?

```

recipe-planner/
|
├─ src/
|   ├─ components/
|   |   └─ ui/
|   |       ├─ card.tsx
|   |       ├─ select.tsx
|   |       ├─ input.tsx
|   |       ├─ checkbox.tsx
|   |       └─ label.tsx
|   └─ App.tsx or pages/RecipePlanner.tsx
|
├─ package.json
└─ tailwind.config.js

```

Can you give me the code for each file, and tell me how Can I create a react app with Vite that shows this component?

I'll provide a comprehensive setup guide with code for each file.

### 1. Create Vite React Project:

```
npm create vite@latest recipe-planner -- --template react-ts
```

```
cd recipe-planner
```

```
npm install
```

```
npm install @radix-ui/react-select @radix-ui/react-checkbox @radix-ui/react-label lucide-react
```

```
npx shadcn-ui@latest init
```

### 2. tailwind.config.js:

```

module.exports = {
  darkMode: ["class"],
  content: [
    "./pages/**/*.tsx",
    "./components/**/*.tsx",
    "./app/**/*.tsx",
    "./src/**/*.tsx",
  ],
}

```

```

],
prefix: "",
theme: {
  container: {
    center: true,
    padding: "2rem",
    screens: {
      "2xl": "1400px",
    },
  },
},
extend: {
  colors: {
    blue: {
      50: "#eff6ff",
      100: "#dbeafe",
      800: "#1e40af"
    }
  }
},
},
plugins: [require("tailwindcss-animate")],
}

```

### 3. package.json (in addition to Vite default, add):

```

{
  "dependencies": {
    "@radix-ui/react-checkbox": "^1.0.4",
    "@radix-ui/react-label": "^2.0.2",
    "@radix-ui/react-select": "^2.0.0",

```

```

    "class-variance-authority": "^0.7.0",
    "clsx": "^2.0.0",
    "lucide-react": "^0.321.0",
    "tailwind-merge": "^2.2.1"
  }
}

```

#### 4. UI Components (src/components/ui/): These will be generated by shadcn-ui CLI. I'll show a template for card.tsx:

```

// src/components/ui/card.tsx
import * as React from "react"
import { cn } from "@/lib/utils"

const Card = React.forwardRef<
  HTMLDivElement,
  React.HTMLAttributes<HTMLDivElement>
>(({ className, ...props }, ref) => (
  <div
    ref={ref}
    className={cn(
      "rounded-xl border bg-card text-card-foreground shadow",
      className
    )}
    {...props}
  />
))

Card.displayName = "Card"

const CardHeader = React.forwardRef

```

```

HTMLDivElement,

React.HTMLAttributes<HTMLDivElement>

>(({ className, ...props }, ref) => (
  <div
    ref={ref}
    className={cn("flex flex-col space-y-1.5 p-6", className)}
    {...props}
  />
))
CardHeader.displayName = "CardHeader"

```

```

const CardTitle = React.forwardRef
  HTMLParagraphElement,
  React.HTMLAttributes<HTMLHeadingElement>
>(({ className, ...props }, ref) => (
  <h3
    ref={ref}
    className={cn(
      "text-2xl font-semibold leading-none tracking-tight",
      className
    )}
    {...props}
  />
))
CardTitle.displayName = "CardTitle"

```

```

const CardContent = React.forwardRef
  HTMLDivElement,
  React.HTMLAttributes<HTMLDivElement>

```



```

>(({ className, ...props }, ref) => (
  <div ref={ref} className={cn("p-6 pt-0", className)} {...props} />
))
CardContent.displayName = "CardContent"

export { Card, CardHeader, CardTitle, CardContent }

```

### 5. **src/App.tsx:**

```

import React from 'react'
import RecipePlanner from './RecipePlanner'

function App() {
  return (
    <div className="container mx-auto p-4">
      <RecipePlanner />
    </div>
  )
}

export default App

```

### 6. **src/RecipePlanner.tsx: Use the component from the previous artifact.**

### 7. **Install remaining dependencies:**

```

npm install tailwindcss postcss autoprefixer
npx tailwindcss init -p
npm run dev

```

Key shadcn-ui CLI Prompts:

- Typescript: Yes

- Style: Default
- Base color: Slate
- Global CSS: Yes
- Components: Select, Checkbox, Input, Label

This setup provides a complete, production-ready React application with the Recipe Planner component, Tailwind CSS, and shadcn-ui components.

Would you like me to elaborate on any specific part of the setup?