

# React + PostMessage()

 @CaraKuei

```
otherWindow.postMessage(message, targetOrigin);  
window.addEventListener("message", this.receiveMessage, false);
```

```
window.addEventListener("message", (event) => {console.log(event)}, false);  
window.postMessage(  
    "Are you ready for football?", // the message you are sending  
    "https://www.nfl.com" // the target origin  
);
```

```
window.postMessage(  
    "Are you ready for football?", // the message you are sending  
    "https://www.nfl.com" // the target origin  
);
```



```
window.addEventListener("message", this.onReceiveMessage, false);
```

```
const onReceiveMessage = (event: Object) => {  
  if (event.origin !== "https://www.nfl.com") {  
    return;  
  }  
  const {data} = event;  
  console.log(data); // "Are you ready for football?"  
};
```

```
window.addEventListener("message", this.onReceiveMessage, false);

const onReceiveMessage = (event: Object) => {
  if (event.origin !== "https://www.nfl.com") {
    return;
  }
  const {data} = event;
  console.log(data); // "Are you ready for football?"
};
```

**Have to be more specific!**

```
/* @flow */  
  
const message: MessageType = {  
  data: {  
    id: "12345",  
    "firstName": "Tom",  
    "lastName": "Brady",  
    "activeRole": "PLAYER",  
  } // Data you care about  
  type: "logging" // the action to take on the data  
};  
  
window.postMessage(  
  `${JSON.stringify(message)}`, // the message you are sending  
  "https://www.nfl.com" // the target origin  
);
```

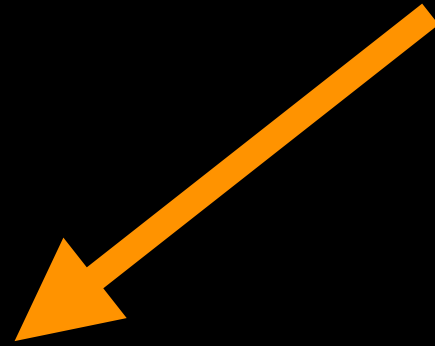
```
/* @flow */  
  
window.addEventListener("message", this.onReceiveMessage, false);  
  
const onReceiveMessage = (event: Event) => {  
  if (event.origin !== "https://www.nfl.com") {  
    return;  
  }  
  
  const {data}: {data: string} = event;  
  const message: MessageType = JSON.parse(data);  
  const {type} = message;  
  switch(type) {  
    case "ready":  
      // set up  
    case "logging":  
      const {data} = message;  
      console.log(`${data.firstName} ${data.lastName}`); // "Tom Brady"  
    }  
  };  
};
```



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window.addEventListener("message", this.onReceiveMessage, false);  
  
const onReceiveMessage = (event: Event) => {  
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    return;  
  }  
  
  const {data}: {data: string} = event;  
  const message: MessageType = JSON.parse(data);  
  const {type} = message;  
  switch(type) {  
    case "ready":  
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      const {data} = message;  
      console.log(`${data.firstName} ${data.lastName}`); // "Tom Brady"  
    }  
  };  
};
```

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window.addEventListener("message", this.onReceiveMessage, false);  
  
const onReceiveMessage = (event: Event) => {  
  if (event.origin !== "https://www.nfl.com") {  
    return;  
  }  
  const {data}: {data: string} = event;  
  const message: MessageType = JSON.parse(data);  
  
  const {type} = message;  
  switch(type) {  
    case "ready":  
      // set up  
    case "logging":  
      const {data} = message;  
      console.log(`${data.firstName} ${data.lastName}`); // "Tom Brady"  
    }  
  };  
};
```

```
const type MessageType: {  
  data: {}, // just an object that probably means something in our system  
  type: string // event name that means something in our system  
};
```



```
const type MessageType: {  
  data: {}, // just an object that probably means something in our system  
  type: string // event name that means something in our system  
};
```

```
/* @flow */  
  
const message: MessageType = {  
  data: {  
    id: "12345",  
    "firstName": "Tom",  
    "lastName": "Brady",  
    "activeRole": "PLAYER",  
  } // Data you care about  
  type: "logging" // the action to take on the data  
};  
  
window.postMessage(  
  `demo${JSON.stringify(message)}`, // the message you are sending  
  "https://www.nfl.com" // the target origin  
);
```



```
/* @flow */  
  
const message: MessageType = {  
  data: {  
    id: "12345",  
    "firstName": "Tom",  
    "lastName": "Brady",  
    "activeRole": "PLAYER",  
  } // Data you care about  
  type: "logging" // the action to take on the data  
};
```

```
window.postMessage(  
  `demo${JSON.stringify(message)}`, // the message you are sending  
  "https://www.nfl.com" // the target origin  
);
```

```
/* @flow */  
window.addEventListener("message", this.onReceiveMessage, false);  
const namespace = "demo";  
  
const onReceiveMessage = (event: Event) => {  
  const {data}: {data: string} = event;  
  if (!data.includes(namespace)) {  
    return;  
  }  
  const message: MessageType = JSON.parse(data.substr(namespace.length));  
  const {type} = message;  
  switch(type) {  
    case "ready":  
      // set up  
    case "logging":  
      const {data} = message;  
      console.log(` ${data.firstName} ${data.lastName}`); // "Tom Brady"  
    }  
  };  
};
```

```
/* @flow */
```

```
window.addEventListener("message", this.onReceiveMessage, false);

const namespace = "demo";

const onReceiveMessage = (event: Event) => {
  const {data}: {data: string} = event;

  if (!data.includes(namespace)) {
    return;
  }

  const message: MessageType = JSON.parse(data.substr(namespace.length));
  const {type} = message;
  switch(type) {
    case "ready":
      // set up
    case "logging":
      const {data} = message;
      console.log(`${data.firstName} ${data.lastName}`); // "Tom Brady"
  }
}
```

```
componentDidMount() {  
    window.addEventListener("message", this.receiveMessage, false);  
    this.setupPage();  
}
```

```
componentWillUnmount() {  
    window.removeEventListener("message", this.receiveMessage);  
}
```

```
/* @flow */  
window.addEventListener("message", this.onReceiveMessage, false);  
  
const onReceiveMessage = (event: Event) => {  
  if (event.origin !== "https://www.nfl.com") {  
    return;  
  }  
  
  const {data}: {data: string} = event;  
  const message: MessageType = JSON.parse(data);  
  const {type} = message;  
  
  switch(type) {  
    case "ready":  
      // set up  
  
    case "logging":  
      const {data} = message;  
      console.log(`${data.firstName} ${data.lastName}`); // "Tom Brady"  
    }  
  };  
};
```



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