

Collecting User Data



Craig Shoemaker

SENIOR WEB DEVELOPER

@craigshoemaker craigshoemaker.net





Local Storage API

Provides a place to save data in the browser.





HTML Forms

Elements and behavior used to collect user data.





Geolocation API

Determines the geographical location of a user.

Explicit consent is required.



Local Storage

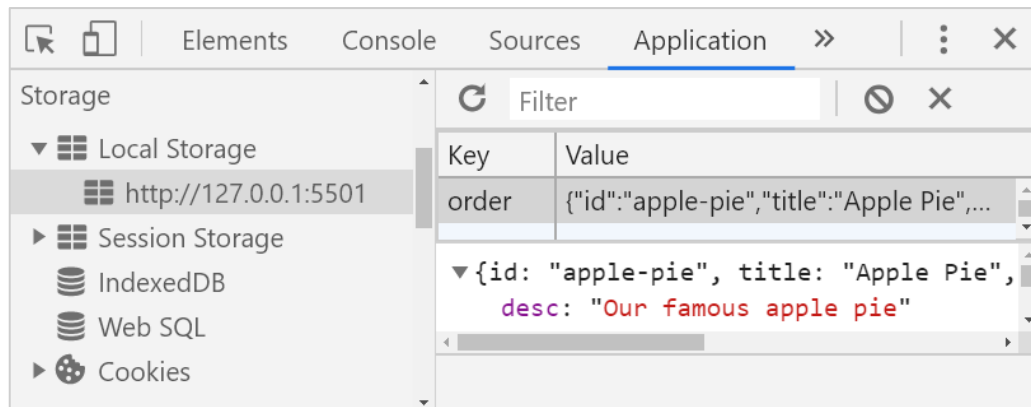








Local Storage



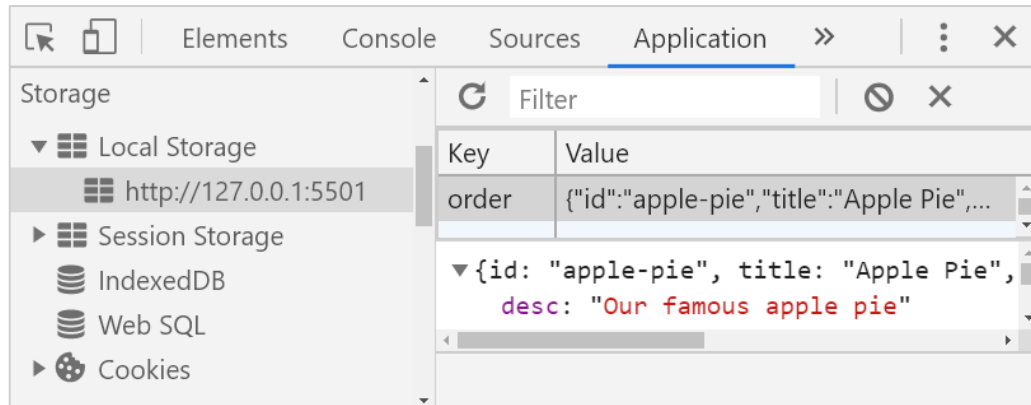
The screenshot shows the 'Application' tab in a web browser's developer tools. The left sidebar is expanded to 'Storage', and 'Local Storage' is selected. A table displays the stored data for the URL 'http://127.0.0.1:5501'.

| Key | Value |
|-------|--|
| order | {"id": "apple-pie", "title": "Apple Pie", ...} |
| | <pre>{id: "apple-pie", title: "Apple Pie", desc: "Our famous apple pie"}</pre> |



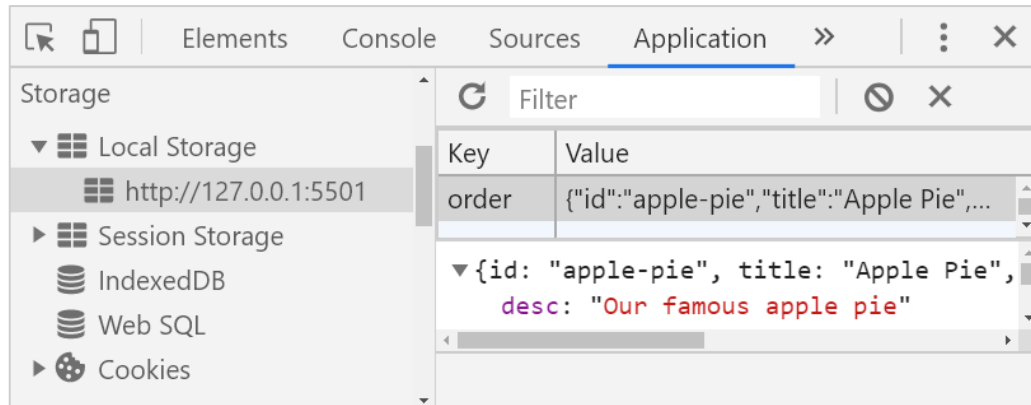
localStorage

Local Storage



```
localStorage.setItem("    ", {} );
```

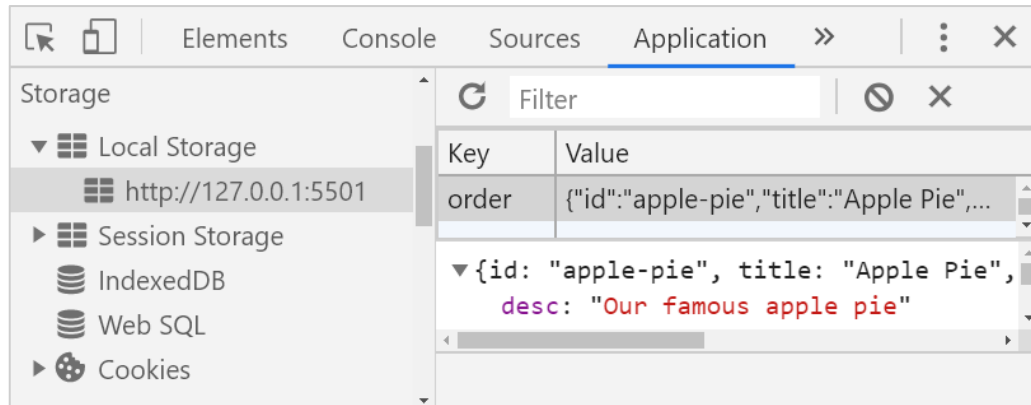
Local Storage



```
localStorage.setItem(" ", {} );
```

Key

Local Storage



The screenshot shows the Chrome DevTools Application tab with the 'Storage' section expanded. Under 'Local Storage', the entry for 'http://127.0.0.1:5501' is selected. The table below shows a single item with the key 'order' and a value object containing 'id', 'title', and 'desc'.

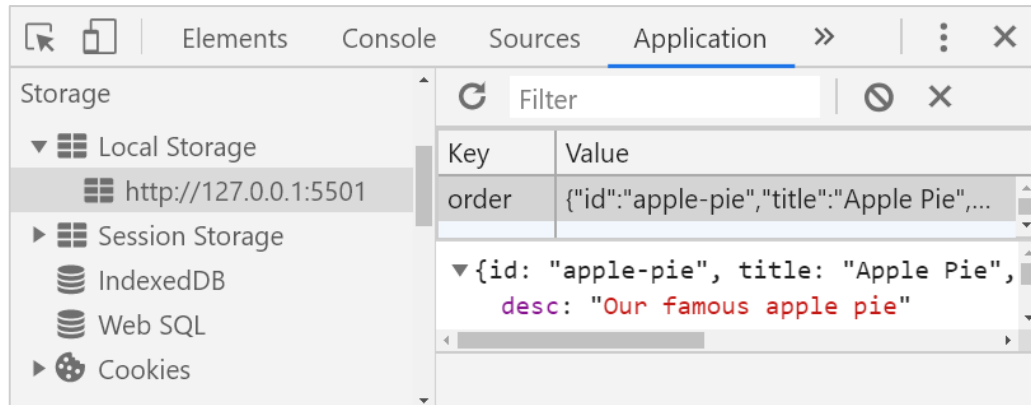
| Key | Value |
|-------|---|
| order | {id: "apple-pie", title: "Apple Pie", desc: "Our famous apple pie"} |



```
localStorage.setItem("    ", {} );
```

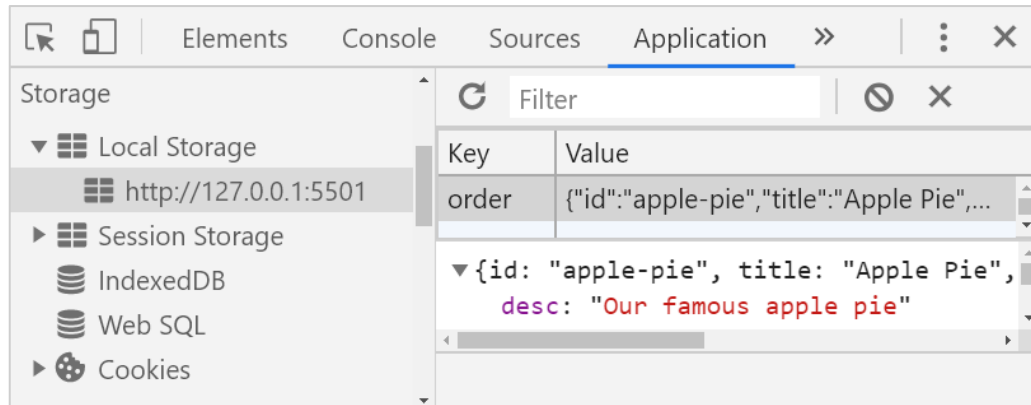
Value

Local Storage

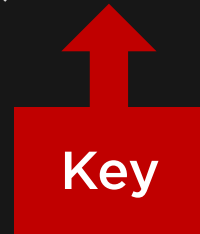


```
let value = localStorage.getItem("  ");
```

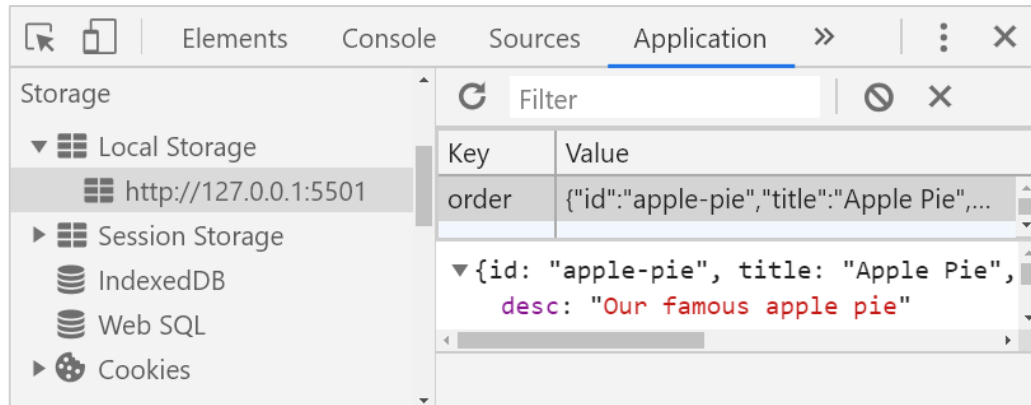
Local Storage



```
let value = localStorage.getItem("  ");
```



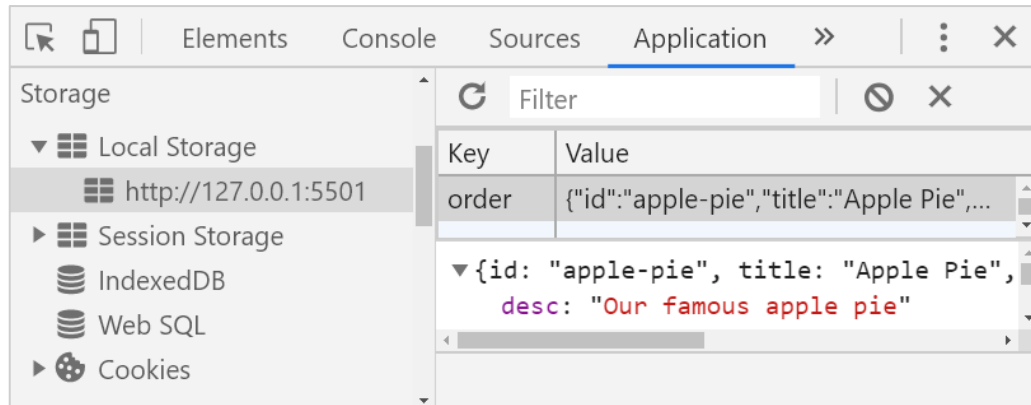
Local Storage



```
let value = localStorage.getItem("    ");
```

Result

Local Storage



The screenshot shows the Chrome DevTools Application tab. The left sidebar is expanded to 'Storage' > 'Local Storage'. A table displays the stored data:

| Key | Value |
|---|--|
| order | {"id": "apple-pie", "title": "Apple Pie", ...} |
| ▼ {id: "apple-pie", title: "Apple Pie", desc: "Our famous apple pie"} | |



HTML Forms









HTML Forms



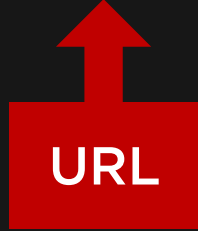
`<form>`

`</form>`

HTML Forms



```
<form action="" >
```



```
</form>
```

HTML Forms



```
<form action="" " method="POST">
```

Request method

```
</form>
```

HTML Forms




```
<form action=" " method="POST">
```

```
  <input type="text" id="full-name" name="full-name">
```

← Input box

```
</form>
```

HTML Forms



```
<form action="  " method="POST">  
  <input type="text" id="full-name" name="full-name">  
  
</form>
```

HTML Forms



```
<form action=" " method="POST">
```

```
  <input type="text" id="full-name" name="full-name">
```

```
  <input type="submit" name="submit" id="submit">
```


Submit button

```
</form>
```

HTML Forms



```
<form action=" " method="POST">  
  <input type="text" id="full-name" name="full-name">  
  <input type="submit" name="submit" id="submit">  
</form>
```



HTML Forms



Add the Input Form

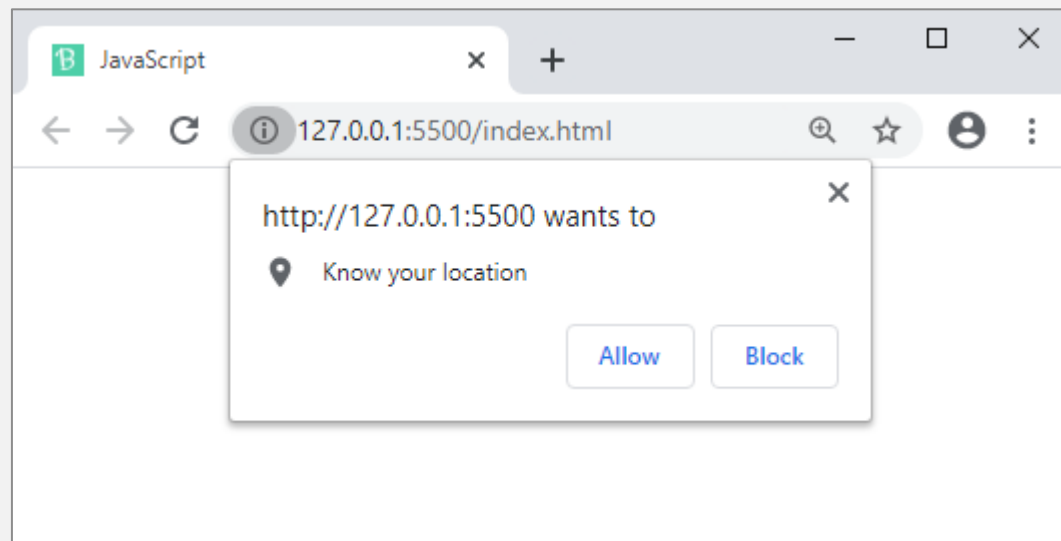


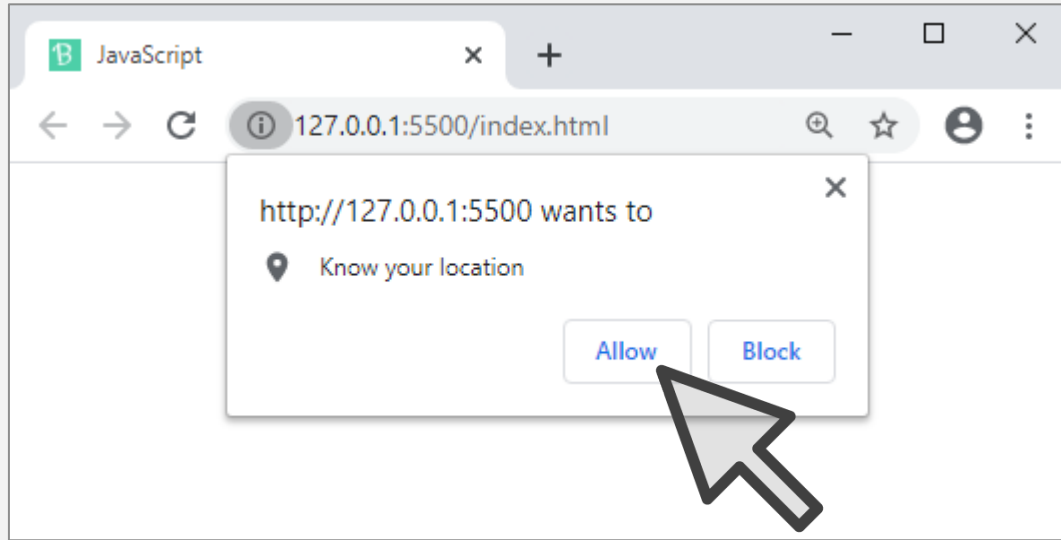
Update CSS

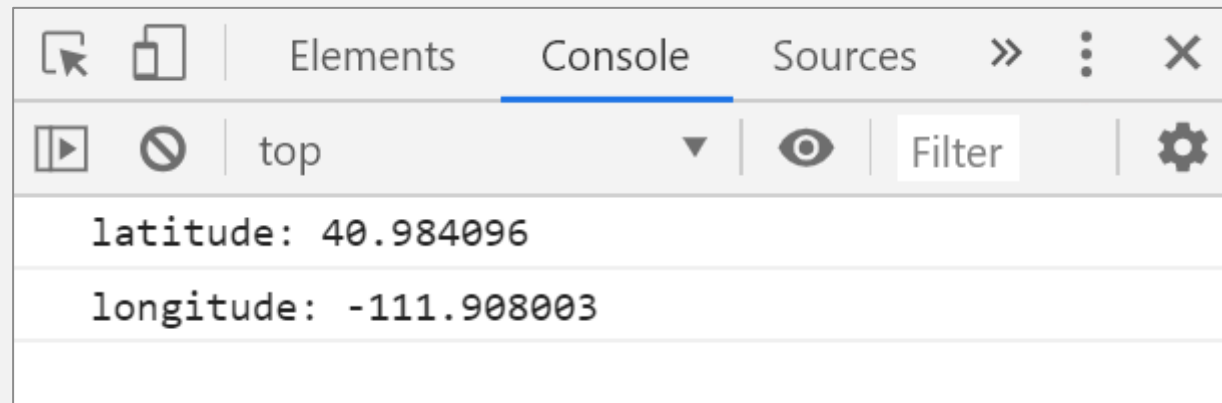
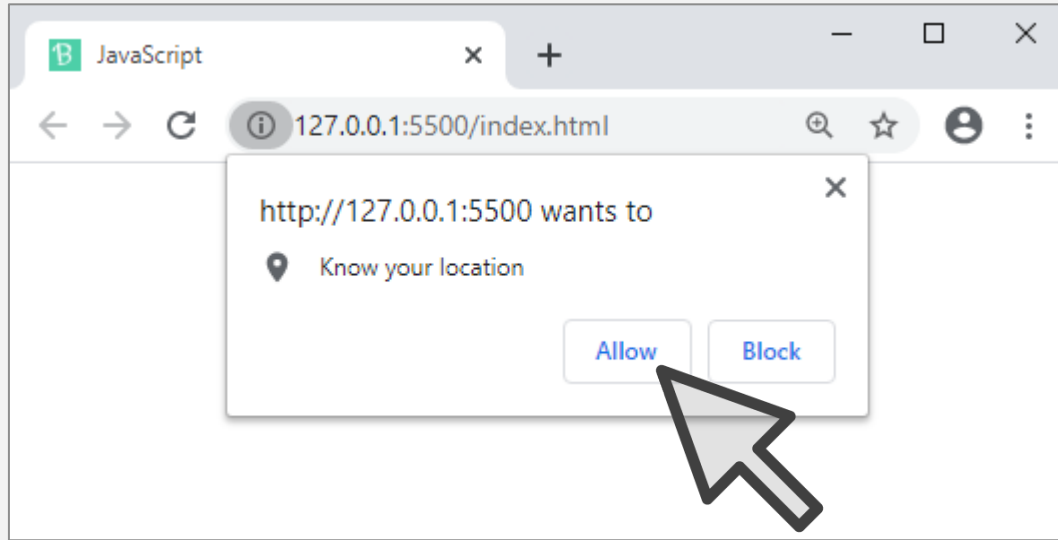


Geolocation API





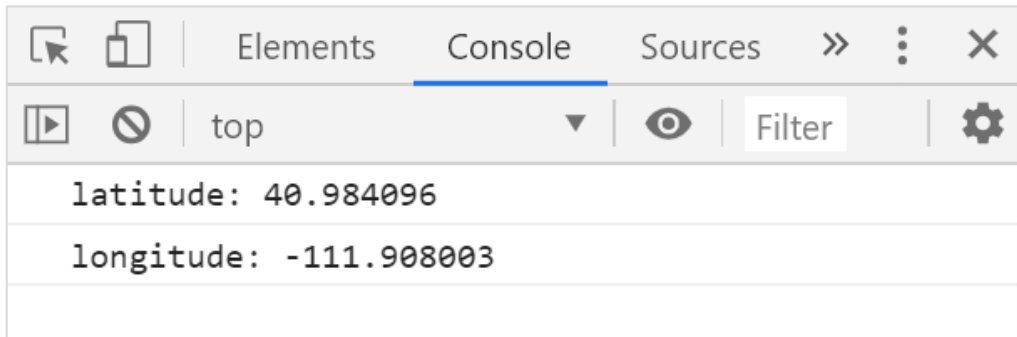














Geolocation API



```
window.navigator.geolocation.getCurrentPosition();
```

Geolocation API

| | | | | | | | |
|--|---|----------|---------|---|--------|---|---|
|  |  | Elements | Console | Sources | » | ⋮ | × |
|  |  | top | ▼ |  | Filter | |  |
| latitude: 40.984096 | | | | | | | |
| longitude: -111.908003 | | | | | | | |
| | | | | | | | |



```
window.navigator.geolocation.getCurrentPosition(
```

```
);
```

Close parenthesis

Geolocation API

| | Elements | Console | Sources | » | ⋮ | × |
|------------|-------------|---------|---------|--------|---|---|
| | top | ▼ | 👁 | Filter | ⚙ | |
| latitude: | 40.984096 | | | | | |
| longitude: | -111.908003 | | | | | |
| | | | | | | |




```
window.navigator.geolocation.getCurrentPosition(
```






```
function(position) {
```

← Success function

```
},
```

```
);
```

Geolocation API

| | | | | | | | |
|--|---|----------|---------|---|--------|----|---|
|  |  | Elements | Console | Sources | » | ⋮ | × |
|  |  | top | ▼ |  | Filter | ⚙️ | |
| latitude: 40.984096 | | | | | | | |
| longitude: -111.908003 | | | | | | | |
| | | | | | | | |



```
window.navigator.geolocation.getCurrentPosition(  
  function(position) {  
  
  },  
  function(error) {  
  
  });
```

Error function

Geolocation API

| Elements | Console | Sources | » | ⋮ | × |
|------------------------|---------|---------|---|---|--------|
| ▶ | ⊘ | top | ▼ | 👁 | Filter |
| latitude: 40.984096 | | | | | |
| longitude: -111.908003 | | | | | |
| | | | | | |



```
window.navigator.geolocation.getCurrentPosition(  
  function(position) {  
    console.log(`latitude: ${ position.coords.latitude }`);  
    console.log(`longitude: ${ position.coords.longitude }`);  
  },  
  
  );
```

Position info

Geolocation API

| Elements | Console | Sources | » | ⋮ | × |
|------------------------|---------|---------|---|---|--------|
| ▶ | ⊘ | top | ▼ | 👁 | Filter |
| latitude: 40.984096 | | | | | |
| longitude: -111.908003 | | | | | |
| | | | | | |



```
window.navigator.geolocation.getCurrentPosition(  
  function(position) {  
    console.log(`latitude: ${ position.coords.latitude }`);  
    console.log(`longitude: ${ position.coords.longitude }`);  
  },  
  function(error) {  
    console.log("Error or user didn't share location.");  
  });
```

Handle errors

Geolocation API

| Elements | Console | Sources | >> | ⋮ | × |
|------------------------|---------|---------|----|---|--------|
| ▶ | ⊘ | top | ▼ | 👁 | Filter |
| latitude: 40.984096 | | | | | |
| longitude: -111.908003 | | | | | |
| | | | | | |



Request Location



Building Websites With HTML, CSS and JavaScript



Building Websites With HTML, CSS and JavaScript



Craig Shoemaker

SENIOR WEB DEVELOPER

@craigshoemaker craigshoemaker.net

