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Localize a posição do usuário






A API HTML Geolocation é usada para obter a posição geográfica de um usuário.

Uma vez que isso pode comprometer a privacidade, a posição não está disponível a menos que o usuário aprove.

[Tente](#)

Nota: a geolocalização é mais precisa para dispositivos com GPS, como smartphone.

A Geolocation API é compatível com todos os navegadores:

				
Yes	Yes	Yes	Yes	Yes

Note: As of Chrome 50, the Geolocation API will only work on secure contexts such as HTTPS. If your site is hosted on an non-secure origin (such as HTTP) the requests to get the users location will no longer function.

Using the Geolocation API

The `getCurrentPosition()` method is used to return the user's position.

The example below returns the latitude and longitude of the user's position:

Example

```
<script>
const x = document.getElementById("demo");
function getLocation() {
  if (navigator.geolocation) {
    navigator.geolocation.getCurrentPosition(showPosition);
  } else {
    x.innerHTML = "Geolocation is not supported by this browser.";
  }
}

function showPosition(position) {
  x.innerHTML = "Latitude: " + position.coords.latitude + 
  "<br>Longitude: " + position.coords.longitude;
}
</script>
```

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Example explained:

- Check if Geolocation is supported
- If supported, run the `getCurrentPosition()` method. If not, display a message to the user
- If the `getCurrentPosition()` method is successful, it returns a coordinates object to the function specified in the parameter (`showPosition`)
- The `showPosition()` function outputs the Latitude and Longitude

The example above is a very basic Geolocation script, with no error handling.

Handling Errors and Rejections

The second parameter of the `getCurrentPosition()` method is used to handle errors. It specifies a function to run if it fails to get the user's location:

Example

```
function showError(error) {
  switch(error.code) {
    case error.PERMISSION_DENIED:
      x.innerHTML = "User denied the request for Geolocation."
      break;
    case error.POSITION_UNAVAILABLE:
      x.innerHTML = "Location information is unavailable."
      break;
    case error.TIMEOUT:
      x.innerHTML = "The request to get user location timed out."
      break;
    case error.UNKNOWN_ERROR:
      x.innerHTML = "An unknown error occurred."
      break;
  }
}
```

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Displaying the Result in a Map

To display the result in a map, you need access to a map service, like Google Maps.

In the example below, the returned latitude and longitude is used to show the location in a Google Map (using a static image):

Example

```
function showPosition(position) {
  let latlon = position.coords.latitude + "," + position.coords.longitude;

  let img_url = "https://maps.googleapis.com/maps/api/staticmap?center="+latlon+"&zoom=14&size=400x300&sensor=false&key=YOUR_KEY";

  document.getElementById("mapholder").innerHTML = "<img src='"+img_url+"'>";
}
```

Location-specific Information

This page has demonstrated how to show a user's position on a map.

Geolocation is also very useful for location-specific information, like:

- Up-to-date local information
- Showing Points-of-interest near the user
- Turn-by-turn navigation (GPS)

The getCurrentPosition() Method - Return Data

O `getCurrentPosition()` método retorna um objeto em caso de sucesso. As propriedades de latitude, longitude e precisão são sempre retornadas. As outras propriedades são retornadas, se disponíveis:

Property	Returns
coords.latitude	The latitude as a decimal number (always returned)
coords.longitude	The longitude as a decimal number (always returned)
coords.accuracy	The accuracy of position (always returned)
coords.altitude	The altitude in meters above the mean sea level (returned if available)
coords.altitudeAccuracy	The altitude accuracy of position (returned if available)
coords.heading	The heading as degrees clockwise from North (returned if available)
coords.speed	The speed in meters per second (returned if available)
timestamp	The date/time of the response (returned if available)

Objeto de geolocalização - Outros métodos interessantes

O objeto Geolocation também possui outros métodos interessantes:

- `watchPosition()` - Retorna a posição atual do usuário e continua a retornar a posição atualizada conforme o usuário se move (como o GPS em um carro).
- `clearWatch()` - Pára o `watchPosition()` método.

O exemplo abaixo mostra o `watchPosition()` método. Você precisa de um dispositivo GPS preciso para testar isso (como um smartphone):

Exemplo

```
<script>
const x = document.getElementById("demo");
function getLocation() {
  if (navigator.geolocation) {
    navigator.geolocation.watchPosition(showPosition);
  } else {
    x.innerHTML = "Geolocation is not supported by this browser.";
  }
}

function showPosition(position) {
  x.innerHTML = "Latitude: " + position.coords.latitude + 
  "<br>Longitude: " + position.coords.longitude;
}
</script>
```

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