Bootstrap 4 Toasts

In Bootstrap 4, a 'toast' is a lightweight and customizable alert message that can be displayed to the user. Toasts are typically used to provide feedback or notifications in a non-intrusive way. They are easy to implement and can be customized to fit the look and feel of your application.

Key Features of Toasts in Bootstrap 4:

1. Auto-Hide: Toasts can be configured to automatically disappear after a set amount of time.
2. Stackable: Multiple toasts can be displayed at the same time, and they can be stacked on top of each other.
3. Positioning: Toasts can be placed in different positions on the screen (e.g., top right, bottom left).
4. Customizable: Toasts can be customized with different background colors, headers, and icons.

Basic Structure of a Toast:

A toast in Bootstrap 4 consists of a `.toast` container, which includes a `.toast-header` and a `.toast-body`.

```
<div class="toast" role="alert" aria-live="assertive" aria-atomic="true">
 <div class="toast-header">
   <img src="..." class="rounded mr-2" alt="...">
   <strong class="mr-auto">Bootstrap</strong>
   <small>11 mins ago</small>
   <button type="button" class="ml-2 mb-1 close" data-dismiss="toast" aria-label="Close">
    <span aria-hidden="true">&times;</span>
   </button>
 </div>
 <div class="toast-body">
   Hello, world! This is a toast message.
 </div>
</div>
```

How to Use Toasts:

To use toasts in your Bootstrap 4 project, follow these steps:

1. 1. Include Bootstrap CSS and JS:

```
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
<script
```

```
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/popper.min.js"></scrip
t>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
```

2. 2. Add Toast Markup:

Add the HTML structure for the toast to your page.

3. 3. Initialize Toasts with JavaScript:

```
<script>
$(document).ready(function(){
 $('.toast').toast('show');
});
</script>
```

Example: Creating a Toast

Here's a complete example of a toast that appears when the page loads.

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Bootstrap 4 Toast Example</title>
 <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
 <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"></script>
 <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.11.0/umd/popper.min.js"></scrip
t>
 <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
</head>
<body>
 <div class="toast" role="alert" aria-live="assertive" aria-atomic="true" data-
autohide="false">
  <div class="toast-header">
   <img src="..." class="rounded mr-2" alt="...">
   <strong class="mr-auto">Bootstrap</strong>
   <small>just now</small>
   <button type="button" class="ml-2 mb-1 close" data-dismiss="toast" aria-label="Close">
    <span aria-hidden="true">&times;</span>
   </button>
```

```
    </div>
    <div class="toast-body">
      Hello, world! This is a toast message.
    </div>
  </div>

  <script>
    $(document).ready(function(){
      $('.toast').toast('show');
    });
  </script>
</body>
</html>
```

Customizing Toasts:

You can customize the appearance and behavior of toasts by adjusting their classes and attributes. For example:

- Change Position: Use utility classes like `position-absolute` and `top-0` to change the position of the toast on the screen.
- Auto-Hide: Set the `data-autohide` attribute to `true` or `false` to control whether the toast hides automatically.
- Delay: Use the `data-delay` attribute to set how long the toast should remain visible before hiding.

Example: Auto-Hiding Toast

```
<div class="toast" role="alert" aria-live="assertive" aria-atomic="true" data-autohide="true" data-delay="5000">
  <div class="toast-header">
    <strong class="mr-auto">Notification</strong>
    <small>5 mins ago</small>
    <button type="button" class="ml-2 mb-1 close" data-dismiss="toast" aria-label="Close">
      <span aria-hidden="true">&times;</span>
    </button>
  </div>
  <div class="toast-body">
    This toast will auto-hide after 5 seconds.
  </div>
</div>

<script>
  $(document).ready(function(){
    $('.toast').toast('show');
```

```
  });
</script>
```