## Description

Responsive websites respond to the user device’s screen layout and size and change the layout of the elements on the webpage automatically. They differ from the alternative “adaptive” approach, where the appropriate UI layout is chosen from a selection of custom-made designs for each screen size.

## Benefits

Responsive layouts are valued because they can produce a functioning and screen-fitting webpage design even on unusual, fringe case screen sizes. When executed properly, websites made this way can look as though they were designed especially for the user’s device. The responsive approach also has the advantage of requiring less individual designs be created by the UI designer.

## Drawbacks

The natural issue with responsive layouts is that on unusual screen sizes, elements can arrange themselves in unintuitive and unintended ways, and the UI may become unintuitive or inaccessible.

## Testing

A responsive UI design needs to be tested on many different screen sizes to ensure proper functionality and layout. Resolving issues that arise from using a responsive layout can prove difficult without

A responsive web UI design can be achieved easily with a framework like Bootstrap, where elements automatically rearrange based on their proximity to a specific screen size. Bootstrap picks a design from several made by the designer and applies it to the target device. It will apply the design that most closely matches the target device’s screen size. In this way, it combines the responsive approach and the alternative adaptive approach.