

In Bootstrap 4, the concept of panels as it existed in Bootstrap 3 has been replaced by cards. Cards are a flexible and extensible content container, which can include options for headers, footers, content, and more. Here's a detailed discussion on how to use cards in Bootstrap 4:

Basic Card Structure

A basic card can be created using the `.card` class. Here's a simple example:

```
``html
<div class="card" style="width: 18rem;">
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <h6 class="card-subtitle mb-2 text-muted">Card subtitle</h6>
    <p class="card-text">Some quick example text to build on the
card title and make up the bulk of the card's content.</p>
    <a href="#" class="card-link">Card link</a>
    <a href="#" class="card-link">Another link</a>
  </div>
</div>
``
```

Card with Header and Footer

You can add headers and footers to your cards using the `.card-header` and `.card-footer` classes:

```
```html
<div class="card">
 <div class="card-header">
 Featured
 </div>
 <div class="card-body">
 <h5 class="card-title">Special title treatment</h5>
 <p class="card-text">With supporting text below as a natural
lead-in to additional content.</p>
 Go somewhere
 </div>
 <div class="card-footer text-muted">
 2 days ago
 </div>
</div>
```
```

Card Image

Cards can also include images, which are placed using the `.card-img-top` class:

```
```html
<div class="card" style="width: 18rem;">

 <div class="card-body">
 <h5 class="card-title">Card title</h5>
 <p class="card-text">Some quick example text to build on the
card title and make up the bulk of the card's content.</p>
 Go somewhere
 </div>
</div>
```
```

Card Groups

You can group multiple cards together to create a card deck or a card group.

****Card Deck****: Cards within a deck are equal height and width.

```
```html
<div class="card-deck">
 <div class="card">

 <div class="card-body">
 <h5 class="card-title">Card title</h5>

```

<p class="card-text">This is a longer card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.</p>

</div>

<div class="card-footer">

<small class="text-muted">Last updated 3 mins ago</small>

</div>

</div>

<div class="card">



<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">This card has supporting text below as a natural lead-in to additional content.</p>

</div>

<div class="card-footer">

<small class="text-muted">Last updated 3 mins ago</small>

</div>

</div>

<div class="card">



<div class="card-body">

<h5 class="card-title">Card title</h5>

<p class="card-text">This is a wider card with supporting text below as a natural lead-in to additional content. This card has

even longer content than the first to show that equal height action.</p>

```
</div>
<div class="card-footer">
 <small class="text-muted">Last updated 3 mins ago</small>
</div>
</div>
</div>
...

```

**\*\*Card Group\*\***: Cards within a group do not have equal width and height by default, making them more flexible for various content.

```
```html
<div class="card-group">
  <div class="card">
    
    <div class="card-body">
      <h5 class="card-title">Card title</h5>
      <p class="card-text">This is a longer card with supporting text
below as a natural lead-in to additional content. This content is a
little bit longer.</p>
    </div>
    <div class="card-footer">
      <small class="text-muted">Last updated 3 mins ago</small>
    </div>
  </div>

```

```
</div>
</div>
<div class="card">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">This card has supporting text below as a
natural lead-in to additional content.</p>
  </div>
  <div class="card-footer">
    <small class="text-muted">Last updated 3 mins ago</small>
  </div>
</div>
<div class="card">
  
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">This is a wider card with supporting text
below as a natural lead-in to additional content. This card has
even longer content than the first to show that equal height
action.</p>
  </div>
  <div class="card-footer">
    <small class="text-muted">Last updated 3 mins ago</small>
  </div>
</div>
```

```
</div>
```

```
...
```

Card Layouts

Cards can be used to create various layouts by using Bootstrap's grid system or utilities.

****Using Grid System**:**

```
```html
```

```
<div class="row">
```

```
 <div class="col-sm-6">
```

```
 <div class="card">
```

```
 <div class="card-body">
```

```
 <h5 class="card-title">Special title treatment</h5>
```

```
 <p class="card-text">With supporting text below as a natural
lead-in to additional content.</p>
```

```
 Go somewhere
```

```
 </div>
```

```
 </div>
```

```
 </div>
```

```
<div class="col-sm-6">
```

```
 <div class="card">
```

```
 <div class="card-body">
```

```
 <h5 class="card-title">Special title treatment</h5>
```

```
<p class="card-text">With supporting text below as a natural
lead-in to additional content.</p>
```

```
Go somewhere
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
...
```

**\*\*Using Utility Classes\*\*:**

```
```html
```

```
<div class="card mb-3">
```

```

```

```
<div class="card-body">
```

```
<h5 class="card-title">Card title</h5>
```

```
<p class="card-text">This is a wider card with supporting text  
below as a natural lead-in to additional content. This card has  
even longer content than the first to show that equal height  
action.</p>
```

```
<p class="card-text"><small class="text-muted">Last updated 3  
mins ago</small></p>
```

```
</div>
```

```
</div>
```

```
<div class="card mb-3">
```

```

```

```
<div class="card-body">
```



```
<h5 class="card-title">Card title</h5>
<p class="card-text">This card has supporting text below as a
natural lead-in to additional content.</p>
<p class="card-text"><small class="text-muted">Last updated 3
mins ago</small></p>
</div>
</div>
...
```

Conclusion

Cards in Bootstrap 4 provide a robust and flexible way to create a variety of content containers with a consistent style. They are versatile and can be used for many different purposes, from simple text containers to more complex layouts involving images, headers, and footers.