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# INTRODUCTION TO MOBILE APPLICATIONS DEVELOPMENT

**Layout and  
Themes**

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# OVERVIEW OF STRUCTURE AND THEMES

Ionic provides several different layout and theming options to help you structure and customize your app.

Full Documentation:

1. <http://ionicframework.com/docs/layout/structure>
2. <https://ionicframework.com/docs/theming/basics>

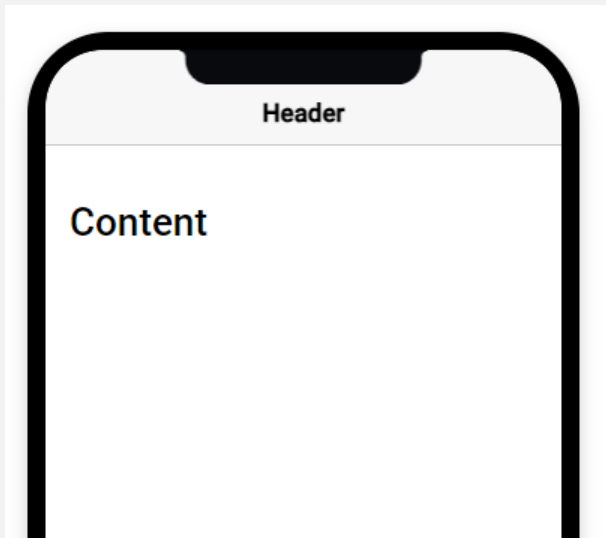
# ION-HEADER

- The simplest layout available consists of a **header** and **content**.
- Most pages in an app generally have both of these, but a **header** is not required in order to use **content**.

# HEADER



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```
import React from 'react';
import { IonContent, IonHeader, IonTitle, IonToolbar } from '@ionic/react';

function Example() {
  return (
    <>
      <IonHeader>
        <IonToolbar>
          <IonTitle>Header</IonTitle>
        </IonToolbar>
      </IonHeader>
      <IonContent className="ion-padding">
        <h1>Content</h1>
      </IonContent>
    </>
  );
}
export default Example;
```

# ION-FOOTER

- While a toolbar in a header appears above the content, a footer appears below the content.
- A header and a footer can also be used together on the same page.

# ION-FOOTER



```
import React from 'react';
import { IonContent, IonFooter, IonTitle, IonToolbar } from '@ionic/react';

function Example() {
  return (
    <>
      <IonContent className="ion-padding">
        <h1>Content</h1>
      </IonContent>
      <IonFooter>
        <IonToolbar>
          <IonTitle>Footer</IonTitle>
        </IonToolbar>
      </IonFooter>
    </>
  );
}
export default Example;
```

# ION-GRID

- The grid is a powerful mobile-first flexbox system for building custom layouts. It is composed of three units — a grid, row(s) and column(s).
- Columns will expand to fill the row, and will resize to fit additional columns.
- It is based on a 12 column layout with different breakpoints based on the screen size.

# ION-GRID

1				2				3			
1		2		3		4		5		6	
1	2	3	4	5	6	7	8	9	10	11	12

```
function Example() {  
  return (  
    <>  
    <IonGrid>  
      <IonRow>  
        <IonCol>1</IonCol>  
        <IonCol>2</IonCol>  
        <IonCol>3</IonCol>  
      </IonRow>  
    </IonGrid>  
  
    <IonGrid>  
      <IonRow>  
        <IonCol>1</IonCol>  
        <IonCol>2</IonCol>  
        <IonCol>3</IonCol>  
        <IonCol>4</IonCol>  
        <IonCol>5</IonCol>  
        <IonCol>6</IonCol>  
      </IonRow>  
    </IonGrid>  
  
    <IonGrid>  
      <IonRow>  
        <IonCol>1</IonCol>  
        <IonCol>2</IonCol>  
        <IonCol>3</IonCol>  
        <IonCol>4</IonCol>  
        <IonCol>5</IonCol>  
        <IonCol>6</IonCol>  
        <IonCol>7</IonCol>  
        <IonCol>8</IonCol>  
        <IonCol>9</IonCol>  
        <IonCol>10</IonCol>  
        <IonCol>11</IonCol>  
        <IonCol>12</IonCol>  
      </IonRow>  
    </IonGrid>  
  </>  
);
```





# COLORS

- Ionic has nine default colors that can be used to change the color of many components. Each color is actually a collection of multiple properties, including a shade and tint, used throughout Ionic.
- When changing a color, it is important to set all of the related properties. This can be done easily with the [Color Generator](#) tool, but these can also be manually written if desired.

# COLORS



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Primary	#3880ff	▼
Secondary	#3dc2ff	▼
Tertiary	#5260ff	▼
Success	#2dd36f	▼
Warning	#ffc409	▼
Danger	#eb445a	▼
Dark	#222428	▼
Medium	#92949c	▼
Light	#f4f5f8	▼

```
<ion-button>Default</ion-button>
<ion-button color="primary">Primary</ion-button>
<ion-button color="secondary">Secondary</ion-button>
<ion-button color="tertiary">Tertiary</ion-button>
<ion-button color="success">Success</ion-button>
<ion-button color="warning">Warning</ion-button>
<ion-button color="danger">Danger</ion-button>
<ion-button color="light">Light</ion-button>
<ion-button color="medium">Medium</ion-button>
<ion-button color="dark">Dark</ion-button>
```

# COLOR GENERATOR



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ionicframework.com/docs/theming/color-generator

## Color Generator

Create custom color palettes for your app's UI. Update a color's hex values, check the demo app on the right to confirm, then copy and paste the generated code directly into your Ionic project.

iOS Android

Primary	#3880ff
Secondary	#3dc2ff
Tertiary	#5260ff
Success	#2dd36f
Warning	#ffc409

Theme Preview

All Favorites

Medium Toggle

Disabled Toggle

Danger Toggle

Success Toggle

Aa Aa Aa

Success Warning Danger

Star

Planet

Sun

Moon

# COLOR GENERATOR

Try it out:

[https://ionicframework.com/docs/t  
heming/color-generator](https://ionicframework.com/docs/t heming/color-generator)

# BEST PRACTICES

- **Keep it Simple:** Prioritize a clean and intuitive navigation flow.
- **Consistent Design:** Maintain a consistent look and feel.
- **User Feedback:** Provide feedback for successful actions.