Carousel

Carousel

Carousel

❖ HTML

```
<body>

    <div class="carousel">
        <img>
        <a class="prev" href="#"><i class="fas fa-angle-left"></i></a>
        <a class="next" href="#"><i class="fas fa-angle-right"></i></a>
    </div>

</body>
```

Carousel

❖ CSS

```
<style>
.carousel {
    position : relative;
    width:600px;
    height:400px;
    margin:0 auto;
}
.carousel>img{
    position : absolute;
    width : 100%;
    height : 100%;
}
.carousel>a {
    display : block;
    position : absolute;
    color : white;
    font-size : 40px;
    width : 80px;
    text-align : center;
    line-height : 400px;
}
```
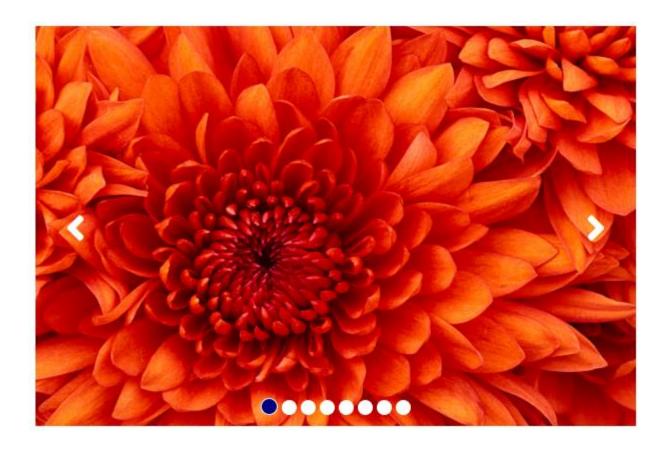
```
.carousel>a.prev {
    left: 0;
}
.carousel>a.next {
    right : 0;
}

</style>
```

Carousel

❖ **Javascript**

```
<script>
var images = [
    'Chrysanthemum.jpg',
    'Desert.jpg',
    'Hydrangeas.jpg',
    'Jellyfish.jpg',
    'Koala.jpg',
    'Lighthouse.jpg',
    'Penguins.jpg',
    'Tulips.jpg'
];
```

Carousel

❖ **Javascript**

```javascript
function changeImage(index) {
    $('.carousel img').attr('src', 'images/' + images[index]);
}

$(function() {
    var index = 0;

    $('.prev').click(function(){
        index = (index-1) < 0 ? images.length-1 : index-1;
        changeImage(index);
    });

    $('.next').click(function(){
        index = (index+1) % images.length;
        changeImage(index);
    });

    changeImage(index);
});
</script>
```

Carousel

Carousel

❖ HTML

```
<body>
   <div class="carousel">
      <img>
      <a class="prev" href="#"><i class="fas fa-angle-left"></i></a>
      <a class="next" href="#"><i class="fas fa-angle-right"></i></a>
      <div class="indicator"></div>
   </div>
</body>
```

Carousel

❖ CSS

```
:

.indicator {
    position : absolute;
    bottom : 0;
    width : 100%;
    height : 30px;
    text-align: center;
}

a.indicator-item {
    background : white;
    display : inline-block;
    width : 15px;
    height: 15px;
    border-radius: 50%;
    margin : 2px 2px;
}
```

```
a.indicator-item.active {
    background : navy;
    border: white solid 1px;
}

</style>
```

Carousel

❖ Javascript

```javascript
function changeImage(index) {
    $('.carousel img').attr('src', 'images/' + images[index]);
    $('.indicator-item').removeClass('active');
    $('.indicator-item').eq(index).addClass('active');
}

$(function() {
    var index = 0;
    :

    for(var ix in images){
        var indicator = $('<a href="#" class="indicator-item"></a>')
        $('.carousel>.indicator').append(indicator)
    }

    $('.indicator-item').click(function(){
        index = $(this).index();
        changeImage(index);
    });
```

Carousel

❖ **Javascript**

```
setInterval(function(){
    index = (index+1) % images.length;
    changeImage(index);
}, 3000);

changeImage(index);
}
```

Carousel

❖ **재사용성 향상**
- css/carousel.css
  - 스타일 분리
- js/carousel.js
  - Js 분리
- $(function(){}) 조정

Carousel

❖ js/carousel.js

```javascript
function carousel(images) {
    var index = 0;

    // 외부 함수를 내부 함수로 조정
    function changeImage(index) {
        $('.carousel img').attr('src', 'images/' + images[index]);
        $('.indicator-item').removeClass('active');
        $('.indicator-item').eq(index).addClass('active');
    }

    for(var ix in images){
        var indicator = $('<a href="#" class="indicator-item"></a>')
        $('.carousel>.indicator').append(indicator)
    }

    $('.indicator-item').click(function(){
        index = $(this).index();
        changeImage(index);

    });
```

Carousel

❖ **js/carousel.js**

```javascript
$('.prev').click(function(){
    index = (index-1) < 0 ? images.length-1 : index-1;
    changeImage(index);
});

$('.next').click(function(){
    index = (index+1) % images.length;
    changeImage(index);
});

setInterval(function(){
    index = (index+1) % images.length;
    changeImage(index);
}, 3000);

changeImage(index);
}
```

Carousel

❖ HTML

```
:
<link rel="stylesheet" href="css/carousel.css"/>
<script src="js/carousel.js"></script>
<script>
$(function() {
   var images = [
      'Chrysanthemum.jpg',
      'Desert.jpg',
      'Hydrangeas.jpg',
      'Jellyfish.jpg',
      'Koala.jpg',
      'Lighthouse.jpg',
      'Penguins.jpg',
      'Tulips.jpg'
   ];

   carousel(images);
});
</script>
```

Carousel

❖ 템플릿 처리(HTML)

```
<script>
$(function() {
    var images = [
        'Chrysanthemum.jpg',
        'Desert.jpg',
        'Hydrangeas.jpg',
        'Jellyfish.jpg',
        'Koala.jpg',
        'Lighthouse.jpg',
        'Penguins.jpg',
        'Tulips.jpg'
    ];
    carousel($('#carousel'), images);
});
</script>

<body>
    <div id="carousel"></div>
</body>
```

Carousel

❖ 템플릿 처리(js/carousel.js)

```javascript
function carousel(self, images) {
    var index = 0;

    var template = `<div class="carousel">
        <img>
        <a class="prev" href="#"><i class="fas fa-angle-left"></i></a>
        <a class="next" href="#"><i class="fas fa-angle-right"></i></a>
        <div class="indicator"></div>
    </div>`;

    self.append(template);
        :

}
```