**슬라이드 애니메이션**

**HTML :**
```
<div id="visual">
    <ul>
        <li class="visual0"><h1>배너이미지1</h1></li>
        <li class="visual1"><h1>배너이미지2</h1></li>
        <li class="visual2"><h1>배너이미지3</h1></li>
        <li class="visual3"><h1>배너이미지4</h1></li>
    </ul>
</div>
<ul id="page">
    <li class="on"><a href="#">배너1</a></li>
    <li><a href="#">배너2</a></li>
    <li><a href="#">배너3</a></li>
    <li><a href="#">배너4</a></li>
</ul>
<ul id="btn">
    <li class="prev">이전</li>
    <li class="next">다음</li>
</ul>
</div>
```

**CSS :** style.css

```
@charset "UTF-8";

* {
    margin: 0;
    padding: 0;
}
ul {
    list-style: none;
}
#wrap {
    width: 500px;
    margin: 0 auto;
}
#visual {
    position: relative;
    width: 100%;
    height: 500px;
    overflow: hidden;
}
#visual ul {
```

```css
    position: relative;
    width: 100%;
    height: 100%;
}
#visual ul li {
    position: absolute;
    width: 100%;
    height: 100%;
    text-align: center;
    line-height: 500px;
}
#visual .visual0 {
    left: 0;
    background: #f00;
}
#visual .visual1 {
    left: 100%;
    background: #0f0;
}
#visual .visual2 {
    left: 200%;
    background: #0ff;
}
#visual .visual3 {
    left: 300%;
    background: #f0f;
}

#page li {
    background: #000;
    display: inline-block;
    width: 10px;
    height: 10px;
    border-radius: 50%;
    position: relative;
    left: 40%;
    bottom: 50px;
    margin: 0 5px;
    cursor: pointer;
}
#page li a {
    display: block;
    text-indent: -9999px;
}
```

```css
#page li.on {
  background: #fff;
}
#btn {
  clear: both;
  text-align: center;
}
#btn li {
  cursor: pointer;
  width: 100px;
  border: 1px solid #000;
  text-align: center;
  display: inline-block;
}
```

script

```javascript
$(function () {
    let current = 0;
    function move(i) {
        if (current == i) return;
        $("#visual>ul>li")
            .eq(current)
            .css({ left: "0" })
            .animate({ left: "-100%" });
        $("#visual>ul>li").eq(i).css({ left: "100%" }).animate({ left: "0" });
        current = i;
    }

    $("#page>li").click(function (e) {
        e.preventDefault();
        var i = $(this).index();
        $("#page>li").removeClass("on");
        $(this).addClass("on");
        move(i);
    });
    let interval = setInterval(timer, 1000);




    function timer() {
```

```javascript
            var n = current + 1;
            if (n == $("#visual>ul>li").length) {
                n = 0;
            }
            $("#page>li").eq(n).trigger("click");
        }
        function timer_prev() {
            var n = current - 1;
            if (n == $("#visual>ul>li").length) {
                n = 0;
            }
            console.log("n :" + n);
            $("#page>li").eq(n).trigger("click");
        }

        $(".next").click(function () {
            timer();
        });
        $(".prev").click(function () {
            timer_prev();
        });

        $("#page, #btn").hover(
            function () {
                clearInterval(interval);
            },
            function () {
                interval = setInterval(timer, 1000);
            }
        );
    });
```

마우스휠 스크롤 이벤트
스크롤 상하

**HTML :**

```
<<ul id="menu">
    <li class="on"><a href="#"></a></li>
    <li><a href="#"></a></li>
    <li><a href="#"></a></li>
    <li><a href="#"></a></li>
</ul>
<div id="wrap">
    <section>
        <article></article>
    </section>
    <section>
        <article></article>
    </section>
    <section>
        <article></article>
    </section>
    <section>
        <article></article>
    </section>
</div>
```

**css:**

```
* {
    margin: 0;
    padding: 0;
}
html,
body {
    width: 100%;
    height: 100%;
}
body {
    overflow: hidden;
}
#menu {
    position: fixed;
    top: 50%;
    left: 0;
    margin-top: -100px;
    z-index: 15;
}
#menu li a {
    display: block;
```

```css
        width: 10px;
        height: 10px;
        background: #000;
        opacity: 0.8;
        transition: all 0.5s;
      }
    #menu li:hover a {
        font-size: 24px;
        opacity: 1;
        color: #fff;
        border-color: #fff;
      }
    #menu li.on a {
        background: #fff;
        border-color: #d4164c;
        font-size: 24px;
        opacity: 1;
      }
    section {
        width: 100%;
        height: 100%;
        position: relative;
      }
    section:nth-child(1) {
        background: red;
      }
    section:nth-child(2) {
        background: yellow;
      }
    section:nth-child(3) {
        background: blue;
      }
    section:nth-child(4) {
        background: green;
      }
```

**script:**
```javascript
$(function () {
  let ht = $(window).height();
  $("section").height(ht);

  $(window).scroll(function () {
    var ht = $(window).height();
    var t = $(window).scrollTop();
    /*console.log("t :"+t);*/
    if (t >= ht * 0 && t < ht * 1) {
      $("#menu li").removeClass("on");
```

```
            $("#menu li").eq(0).addClass("on");
        } else if (t >= ht * 1 && t < ht * 2) {
            $("#menu li").removeClass("on");
            $("#menu li").eq(1).addClass("on");
        } else if (t >= ht * 2 && t < ht * 3) {
            $("#menu li").removeClass("on");
            $("#menu li").eq(2).addClass("on");
        } else if (t >= ht * 3 && t < ht * 4) {
            $("#menu li").removeClass("on");
            $("#menu li").eq(3).addClass("on");
        }
    });
    //section위에서 마우스 휠을 움직이면
    $("section").on("mousewheel", function (event, delta) {
        console.log(delta);
        //마우스 휠을 올렸을때
        if (delta > 0) {
            if ($(this).next() != undefined) {
                try {
                    var prev = $(this).prev().offset().top;
                    console.log("prev :" + prev);
                    //문서 전체를 prev에 저장된 위치로 이동
                    $("html,body")
                        .stop()
                        .animate({ scrollTop: prev }, 1400, "easeOutBounce");
                } catch (e) {}
            }
            //변수 prev에 현재 휠을 움직인 section에서 이전 section의 offset().top위치 저장

            //마우스 휠을 내렸을때
        } else if (delta < 0) {
            //변수 next에 현재 휠을 움직인 section에서 다음 section의 offset().top위치 저장
            var next = $(this).next().offset().top;
            //문서 전체를 next에 저장된 위치로 이동
            $("html,body").stop().animate({ scrollTop: next }, 1400, "easeOutBounce");
        }
    });
    $("#menu li").click(function () {
        var num = $(this).index();
        var nowTop = num * ht;
        console.log("nowTop :" + nowTop);
        $("html, body")
            .stop()
            .animate({ scrollTop: nowTop }, 1000, "easeOutBounce");
    });
});
```

스크롤 상하

```html
<body>
  <div class="box" style="background-color: red">1</div>
  <div class="box" style="background-color: orange">2</div>
  <div class="box" style="background-color: yellow">3</div>
  <div class="box" style="background-color: green">4</div>
  <div class="box" style="background-color: blue">5</div>
  <div class="box" style="background-color: indigo">6</div>
  <div class="box" style="background-color: violet">7</div>
</body>
```

**css:**

```css
* {
  margin: 0;
  padding: 0;
}
html,
body {
  width: 100%;
  height: 100%;
}
body {
  overflow: hidden;
}
.box {
  width: 100%;
  height: 100%;
  position: relative;
  color: #ffffff;
  font-size: 24pt;
}
```

**script:**

```javascript
let elm = $(".box");
$(elm).each(function (index) {
  // 개별적으로 Wheel 이벤트 적용
  $(this).on("mousewheel", function (e) {
    e.preventDefault();
    console.log(event.wheelDelta);
    let delta = event.wheelDelta / 120;
    let moveTop = $(window).scrollTop();
    let elmSelecter = $(elm).eq(index);
    // 마우스휠을 위에서 아래로
    if (delta < 0) {
      if ($(elmSelecter).next() != undefined) {
```

```
            try {
                moveTop = $(elmSelecter).next().offset().top;
            } catch (e) {}
        }
        // 마우스휠을 아래에서 위로
    } else {
        if ($(elmSelecter).prev() != undefined) {
            try {
                moveTop = $(elmSelecter).prev().offset().top;
            } catch (e) {}
        }
    }
    // 화면 이동 0.8초(800)
    $("html,body")
        .stop()
        .animate({ scrollTop: moveTop + "px" }, 800);
    });
  });
});
```

스크롤 좌우

**HTML :**
```html
<body>
 <div class="boxwrap">
    <div class="box" style="background-color: red">1</div>
    <div class="box" style="background-color: orange">2</div>
    <div class="box" style="background-color: yellow">3</div>
    <div class="box" style="background-color: green">4</div>
    <div class="box" style="background-color: blue">5</div>
    <div class="box" style="background-color: indigo">6</div>
    <div class="box" style="background-color: violet">7</div>
 </div>
</body>
```

**css :**
```css
* {
    margin: 0;
    padding: 0;
}
html,
body {
  width: 100%;
  height: 100%;
}
body {
  overflow: hidden;
}
.boxwrap {
  display: table;
  table-layout: fixed;
  width: 700%;
  height: 100%;
}
.box {
  display: table-cell;
  color: #ffffff;
  font-size: 24px
}
```

```
script :
    $(function () {
      let elm = $(".box");
      $(elm).each(function (index) {
        $(this).on("mousewheel", function () {
          let delta = 0;
          let delta = event.wheelDelta / 120;
          var moveTop = $(window).scrollLeft();
          var elmSelecter = $(elm).eq(index);
          // 마우스휠을 위에서 아래로
          if (delta < 0) {
            if ($(elmSelecter).next() != undefined) {
              try {
                moveTop = $(elmSelecter).next().offset().left;
              } catch (e) {}
            }
            // 마우스휠을 아래에서 위로
          } else {
            if ($(elmSelecter).prev() != undefined) {
              try {
                moveTop = $(elmSelecter).prev().offset().left;
              } catch (e) {}
            }
          }
          // 화면 이동 0.8초(800)
          $("html, body").stop().animate({ scrollLeft: moveTop }, 800);
        });
      });
    });
```