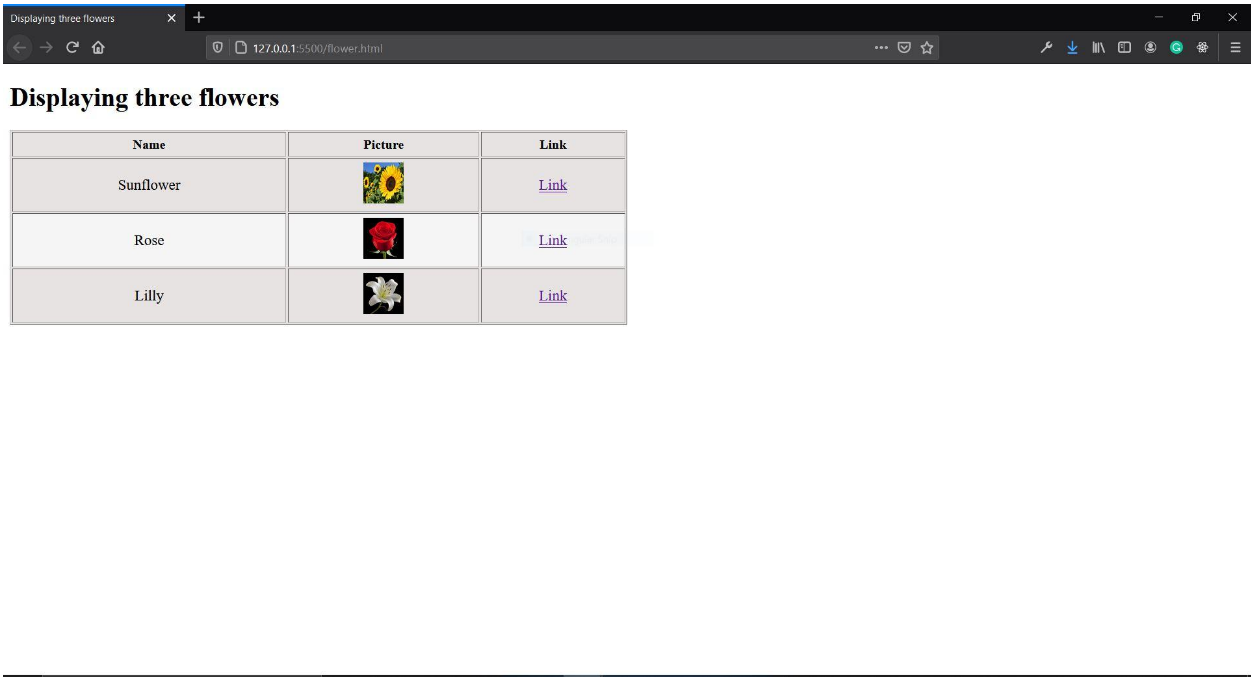
1.



Displaying three flowers

Name	Picture	Link
Sunflower		Link
Rose		Link
Lilly		Link

2.
jquery_one.html

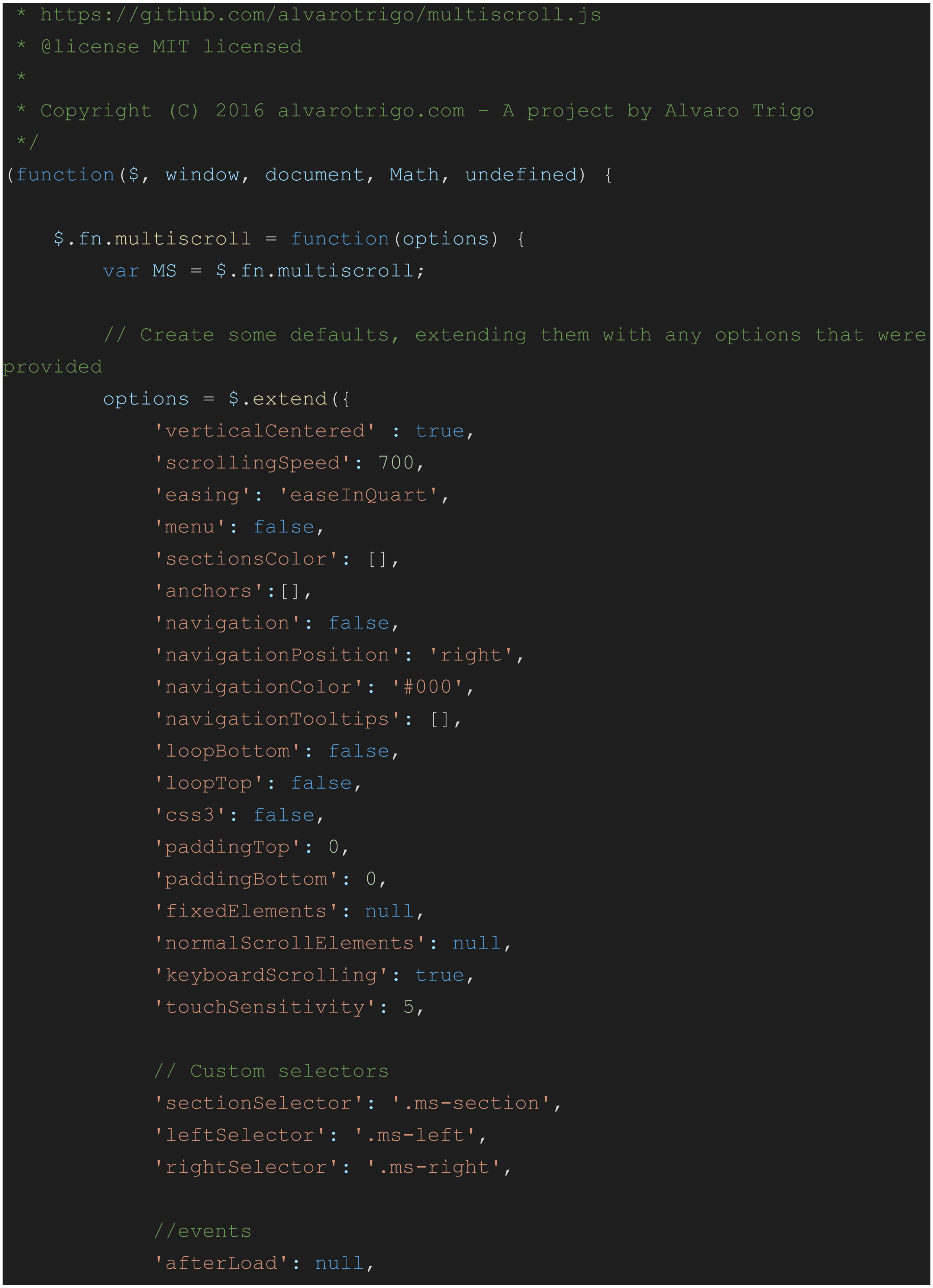
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>jquery multi scroll plugin</title>
    <link rel="stylesheet" type="text/css" href="jquery.multiscroll.css"
/>

</head>
<body>
    <div id="multiscroll">
        <div class="ms-left">
            <div class="ms-section"><img src="../sunflower.jpg"
alt="sunflower" width="300" height="300"></div>

        </div>
        <div class="ms-right">
            <div class="ms-section"><img src="../rose.jpg" alt="rose"
width="300" height="300"></div>

        </div>
    </div>
    <script
src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></sc
ript>
    <script type="text/javascript" src="jquery.easings.min.js"></script>
    <script type="text/javascript" src="jquery.multiscroll.js"></script>
    <script type="text/javascript">
    $(document).ready(function() {
    $('#multiscroll').multiscroll({
        // sectionsColor:[,] // to add different colors
    });
});
    </script>
</body>
</html>
```

Css

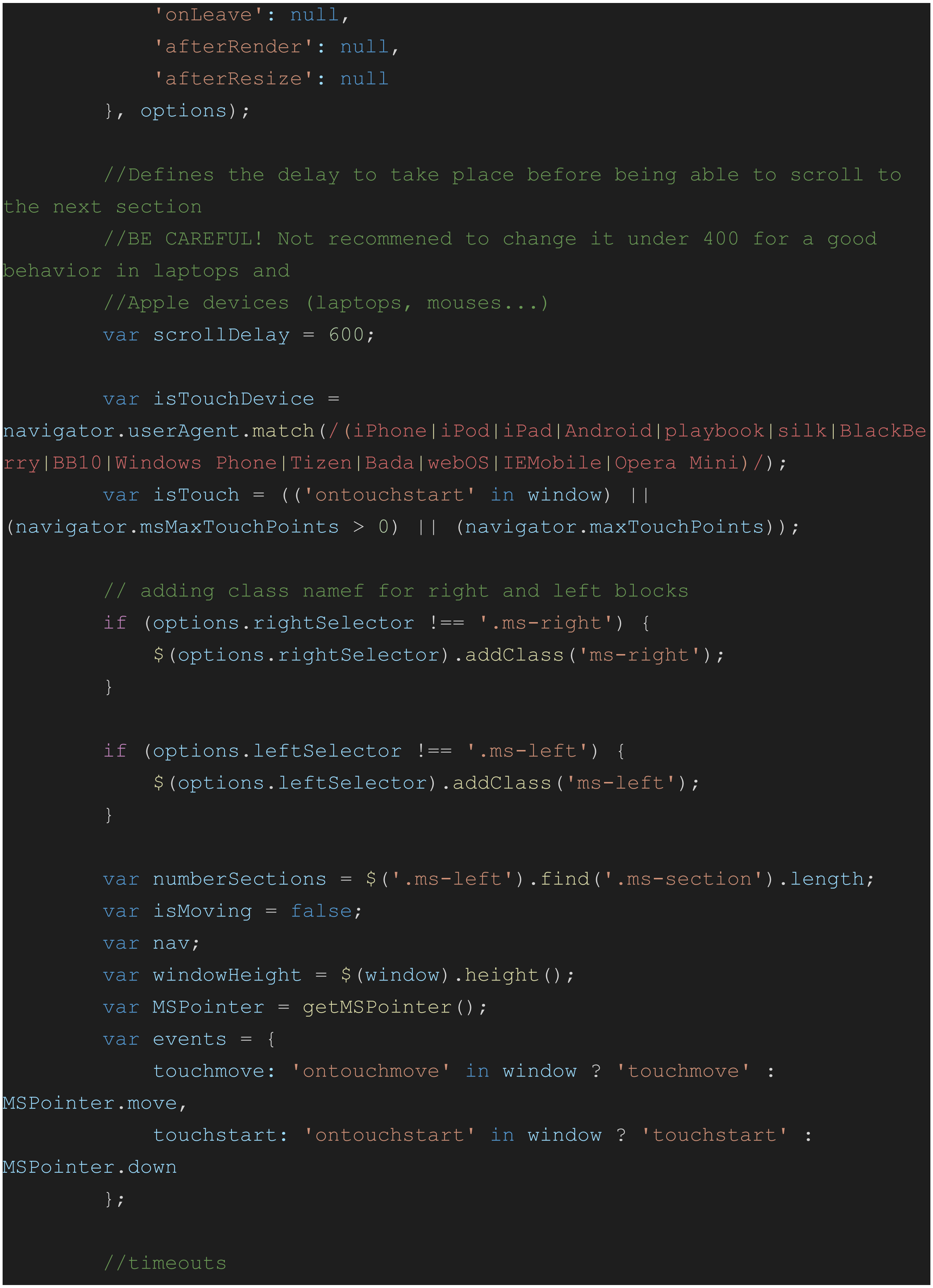
```
/*!
 * multiscroll.js 0.2.2
 * https://github.com/alvarotrigo/multiscroll.js
 * @license MIT licensed
 *
 * Copyright (C) 2016 alvarotrigo.com - A project by Alvaro Trigo
 */
 html, body {
    margin: 0;
    padding: 0;
    overflow:hidden;
    -webkit-tap-highlight-color: rgba(0,0,0,0);
}
.ms-section {
    position: relative;
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
    box-sizing: border-box;
}
.ms-section.ms-table{
    display: table;
    width: 100%;
}
.ms-tableCell {
    display: table-cell;
    vertical-align: middle;
    width: 100%;
    height: 100%;
}
.ms-easing {
    -webkit-transition: all 0.7s ease-out;
    -moz-transition: all 0.7s ease-out;
    -o-transition: all 0.7s ease-out;
    transition: all 0.7s ease-out;
}
#multiscroll-nav {
    position: fixed;
    z-index: 100;
    margin-top: -32px;
    top: 50%;
    opacity: 1;
}
#multiscroll-nav.right {
    right: 17px;
}
#multiscroll-nav.left {
    left: 17px;
}
#multiscroll-nav ul{
  margin: 0;
  padding: 0;
}
#multiscroll-nav li{
    display: block;
    width: 14px;
    height: 13px;
    margin: 7px;
    position:relative;
}
#multiscroll-nav li a{
    display: block;
    position: relative;
    z-index: 1;
    width: 100%;
    height: 100%;
    cursor: pointer;
    text-decoration: none;
}
#multiscroll-nav li .active span{
    background: #333;
}
#multiscroll-nav span{
    top: 2px;
    left: 2px;
    width: 8px;
    height: 8px;
    border: 1px solid #000;
    background: rgba(0, 0, 0, 0);
    -webkit-border-radius: 50%;
    -moz-border-radius: 50%;
    border-radius: 50%;
    position: absolute;
    z-index: 1;
}
.multiscroll-tooltip {
    position: absolute;
    color: #fff;
    font-size: 14px;
    font-family: arial, helvetica, sans-serif;
    top: -2px;
    white-space: nowrap;
    max-width: 220px;
}
.multiscroll-tooltip.right {
    right: 20px;
}
.multiscroll-tooltip.left {
    left: 20px;
}
.ms-responsive .ms-hide{
    display: none;
}
.ms-scrollable {
    overflow: hidden;
    position: relative;
}
.ms-scroller{
    overflow: hidden;
}
.iScrollIndicator{
    border: 0 !important;
}
```

Js

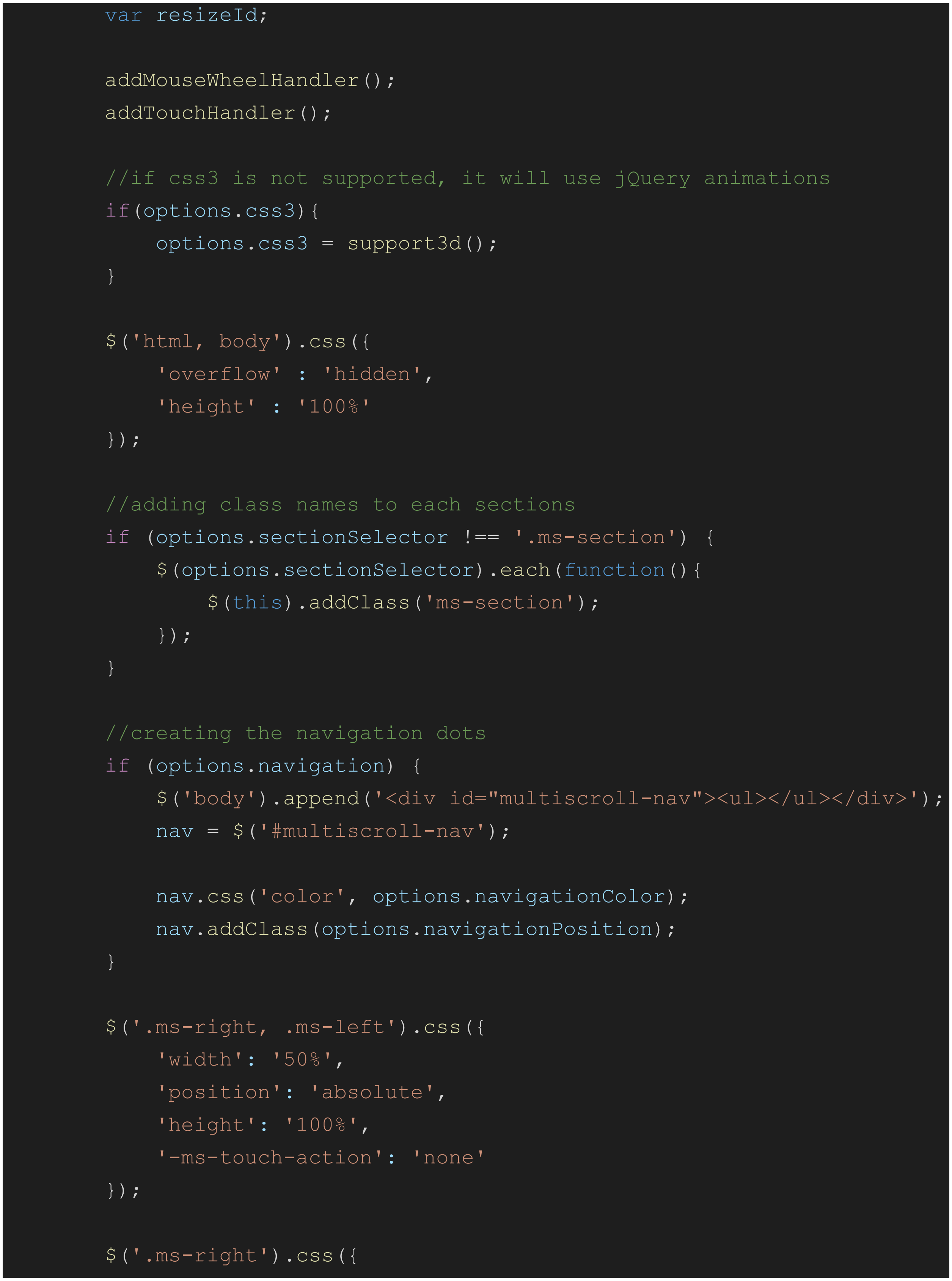
```
/*!
 * multiscroll.js 0.2.2
```



```
 * https://github.com/alvarotrigo/multiscroll.js
 * @license MIT licensed
 *
 * Copyright (C) 2016 alvarotrigo.com - A project by Alvaro Trigo
 */
(function($, window, document, Math, undefined) {

    $.fn.multiscroll = function(options) {
        var MS = $.fn.multiscroll;

        // Create some defaults, extending them with any options that were provided
        options = $.extend({
            'verticalCentered' : true,
            'scrollingSpeed': 700,
            'easing': 'easeInQuart',
            'menu': false,
            'sectionsColor': [],
            'anchors':[],
            'navigation': false,
            'navigationPosition': 'right',
            'navigationColor': '#000',
            'navigationTooltips': [],
            'loopBottom': false,
            'loopTop': false,
            'css3': false,
            'paddingTop': 0,
            'paddingBottom': 0,
            'fixedElements': null,
            'normalScrollElements': null,
            'keyboardScrolling': true,
            'touchSensitivity': 5,

            // Custom selectors
            'sectionSelector': '.ms-section',
            'leftSelector': '.ms-left',
            'rightSelector': '.ms-right',

            //events
            'afterLoad': null,
```

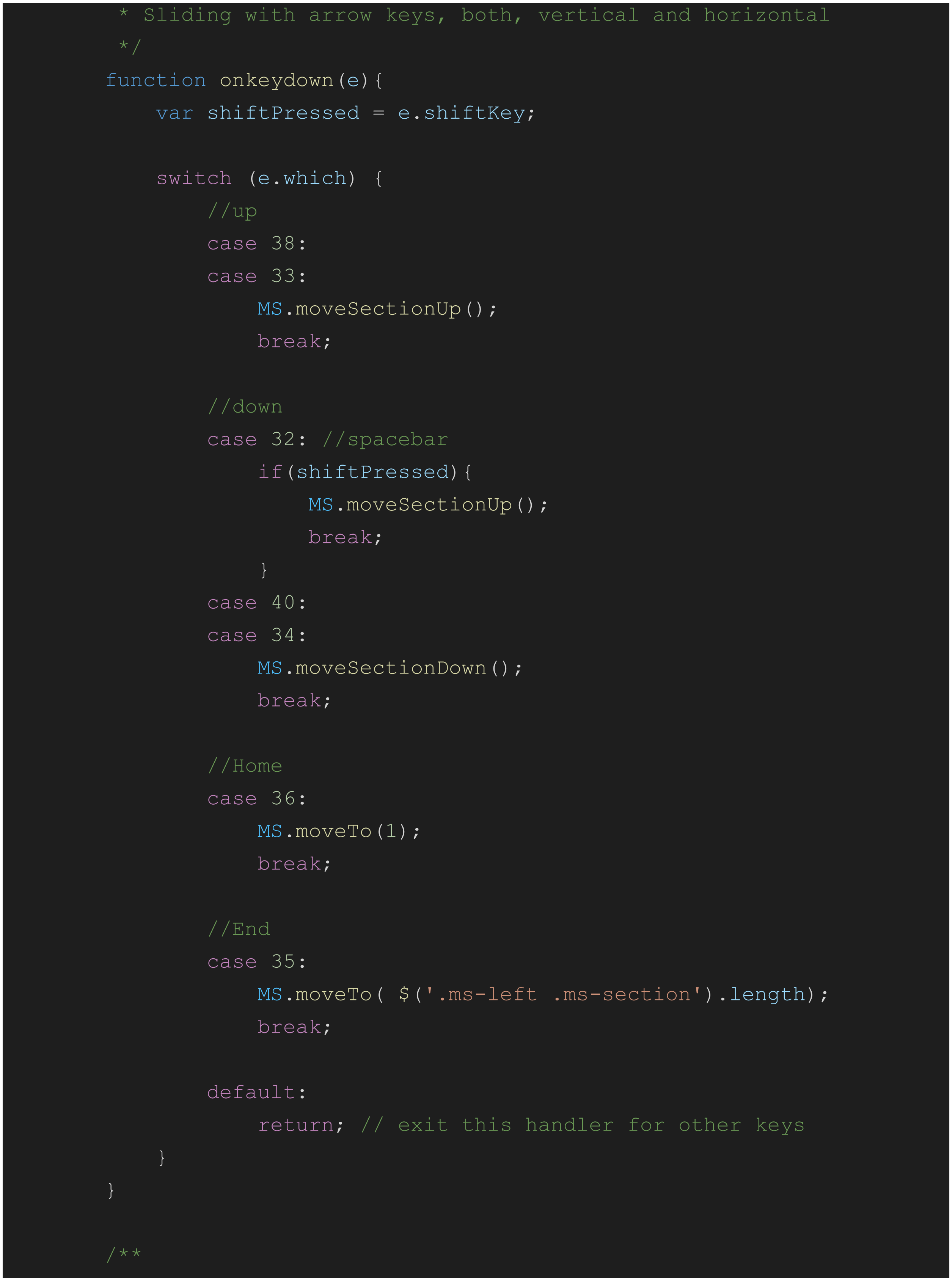


```
            'onLeave': null,
            'afterRender': null,
            'afterResize': null
        }, options);

        //Defines the delay to take place before being able to scroll to
the next section
        //BE CAREFUL! Not recommened to change it under 400 for a good
behavior in laptops and
        //Apple devices (laptops, mouses...)
        var scrollDelay = 600;

        var isTouchDevice =
navigator.userAgent.match(/(iPhone|iPod|iPad|Android|playbook|silk|BlackBe
rry|BB10|Windows Phone|Tizen|Bada|webOS|IEMobile|Opera Mini)/);
        var isTouch = (('ontouchstart' in window) ||
(navigator.msMaxTouchPoints > 0) || (navigator.maxTouchPoints));

        // adding class namef for right and left blocks
        if (options.rightSelector !== '.ms-right') {
            $(options.rightSelector).addClass('ms-right');
        }

        if (options.leftSelector !== '.ms-left') {
            $(options.leftSelector).addClass('ms-left');
        }

        var numberSections = $('.ms-left').find('.ms-section').length;
        var isMoving = false;
        var nav;
        var windowHeight = $(window).height();
        var MSPointer = getMSPointer();
        var events = {
            touchmove: 'ontouchmove' in window ? 'touchmove' :
MSPointer.move,
            touchstart: 'ontouchstart' in window ? 'touchstart' :
MSPointer.down
        };

        //timeouts
```



```
        var resizeId;

        addMouseWheelHandler();
        addTouchHandler();

        //if css3 is not supported, it will use jQuery animations
        if(options.css3){
            options.css3 = support3d();
        }

        $('html, body').css({
            'overflow' : 'hidden',
            'height' : '100%'
        });

        //adding class names to each sections
        if (options.sectionSelector !== '.ms-section') {
            $(options.sectionSelector).each(function(){
                $(this).addClass('ms-section');
            });
        }

        //creating the navigation dots
        if (options.navigation) {
            $('body').append('<div id="multiscroll-nav"><ul></ul></div>');
            nav = $('#multiscroll-nav');

            nav.css('color', options.navigationColor);
            nav.addClass(options.navigationPosition);
        }

        $('.ms-right, .ms-left').css({
            'width': '50%',
            'position': 'absolute',
            'height': '100%',
            '-ms-touch-action': 'none'
        });

        $('.ms-right').css({
            'right': '1px',
//http://stackoverflow.com/questions/23675457/chrome-and-opera-creating-sm
all-padding-when-using-displaytable
            'top': '0',
            '-ms-touch-action': 'none',
            'touch-action': 'none'
        });

        $('.ms-left').css({
            'left': '0',
            'top': '0',
            '-ms-touch-action': 'none',
            'touch-action': 'none'
        });


        $('.ms-left .ms-section, .ms-right .ms-section').each(function(){
            var sectionIndex = $(this).index();

            if(options.paddingTop || options.paddingBottom){
                $(this).css('padding', options.paddingTop  + ' 0 ' +
options.paddingBottom + ' 0');
            }

            if (typeof options.sectionsColor[sectionIndex] !==
'undefined') {
                $(this).css('background-color',
options.sectionsColor[sectionIndex]);
            }

            if (typeof options.anchors[sectionIndex] !== 'undefined') {
                $(this).attr('data-anchor',
options.anchors[sectionIndex]);
            }

            if(options.verticalCentered){
                addTableClass($(this));
            }

            //only for the left panel
            if($(this).closest('.ms-left').length && options.navigation) {
                var link = '';
                if(options.anchors.length){
                    link = options.anchors[sectionIndex];
                }
                var tooltip = options.navigationTooltips[sectionIndex];
                if(typeof tooltip === 'undefined'){
                    tooltip = '';
                }
                if (options.navigation) {
                    nav.find('ul').append('<li data-tooltip="' + tooltip +
'"><a href="#' + link + '"><span></span></a></li>');
                }
            }
        });

        //inverting the right panel
        $('.ms-right').html(
$('.ms-right').find('.ms-section').get().reverse());

        $('.ms-left .ms-section, .ms-right .ms-section').each(function(){
            var sectionIndex = $(this).index();

            $(this).css({
                'height': '100%'
            });


            if(!sectionIndex && options.navigation ){
                //activating the navigation bullet

nav.find('li').eq(sectionIndex).find('a').addClass('active');
            }
        }).promise().done(function(){

            //if no active section is defined, the 1st one will be the
default one
            if(!$('.ms-left .ms-section.active').length){

$('.ms-right').find('.ms-section').last().addClass('active');
$('.ms-left').find('.ms-section').first().addClass('active');
            }

            //vertical centered of the navigation + first bullet active
            if(options.navigation){
                nav.css('margin-top', '-' + (nav.height()/2) + 'px');
            }
            $.isFunction( options.afterRender ) &&
options.afterRender.call( this);

            //scrolling to the defined active section and adjusting right
and left panels
            silentScroll();

            //setting the class for the body element
            setBodyClass();

            $(window).on('load', function() {
                scrollToAnchor();
            });
        });


        //detecting any change on the URL to scroll to the given anchor
link
        //(a way to detect back history button as we play with the hashes
on the URL)
        $(window).on('hashchange', hashChangeHandler);

        function hashChangeHandler(){
            var value =  window.location.hash.replace('#', '');
            var sectionAnchor = value;

            if(sectionAnchor.length){
                var section =
$('.ms-left').find('[data-anchor="'+sectionAnchor+'"]');

                var isFirstScrollMove = (typeof lastScrolledDestiny ===
'undefined' );
```

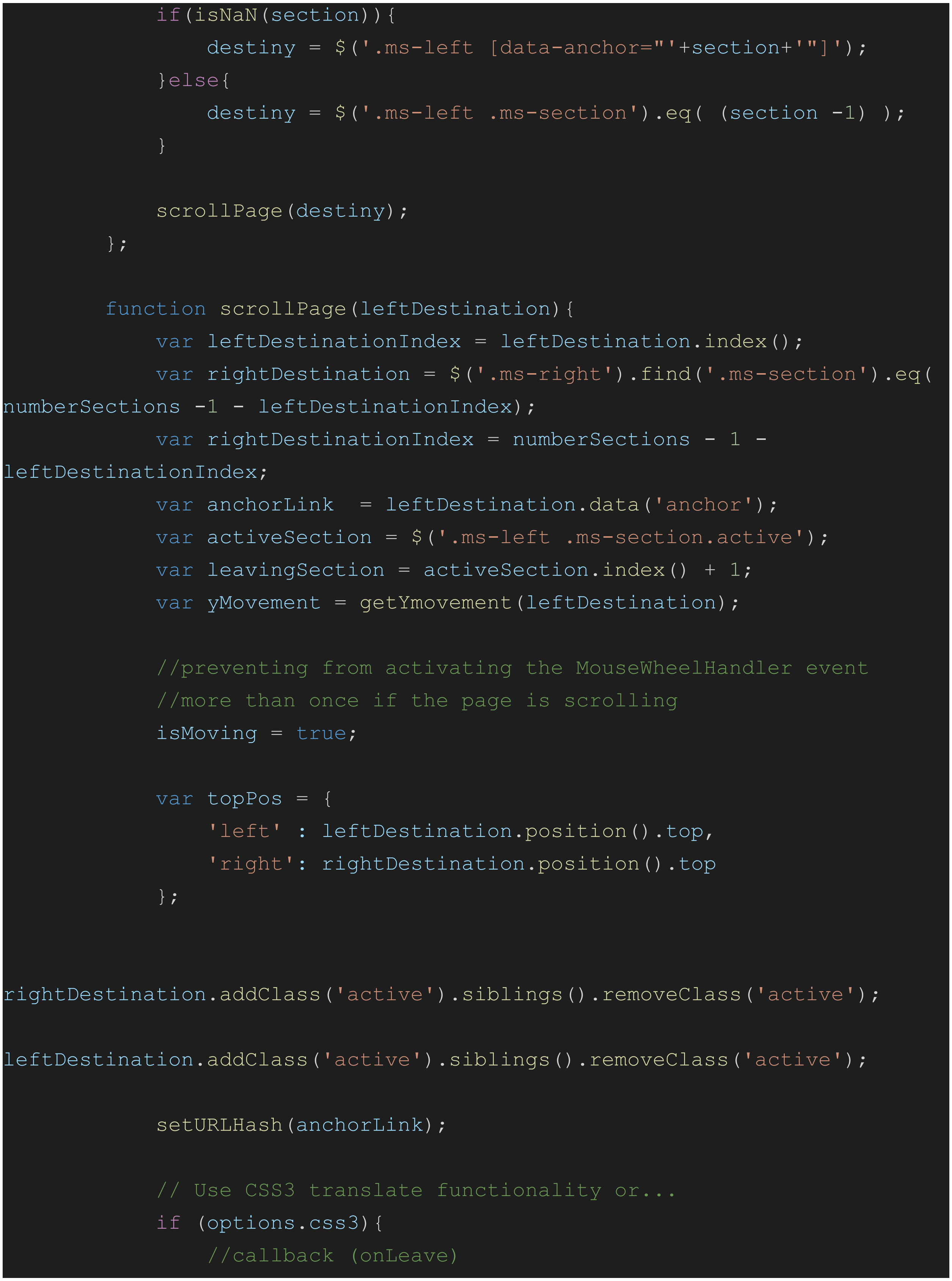
```
                if (isFirstScrollMove || sectionAnchor !==
lastScrolledDestiny){
                    scrollPage(section);
                }
            }
        };


        /**
        * Sliding with arrow keys, both, vertical and horizontal
        */
        $(document).keydown(keydownHandler);


        var keydownId;
        function keydownHandler(e) {
            clearTimeout(keydownId);

            var activeElement = $(document.activeElement);

            if(!activeElement.is('textarea') && !activeElement.is('input')
&& !activeElement.is('select') &&
                options.keyboardScrolling){
                var keyCode = e.which;

                //preventing the scroll with arrow keys & spacebar & Page
Up & Down keys
                var keyControls = [40, 38, 32, 33, 34];
                if($.inArray(keyCode, keyControls) > -1){
                    e.preventDefault();
                }

                keydownId = setTimeout(function(){
                    onkeydown(e);
                },150);
            }
        }

        /**
```



```
 * Sliding with arrow keys, both, vertical and horizontal
 */
function onkeydown(e){
    var shiftPressed = e.shiftKey;

    switch (e.which) {
        //up
        case 38:
        case 33:
            MS.moveSectionUp();
            break;

        //down
        case 32: //spacebar
            if(shiftPressed){
                MS.moveSectionUp();
                break;
            }
        case 40:
        case 34:
            MS.moveSectionDown();
            break;

        //Home
        case 36:
            MS.moveTo(1);
            break;

        //End
        case 35:
            MS.moveTo( $('.ms-left .ms-section').length);
            break;

        default:
            return; // exit this handler for other keys
    }
}

/**
```

```
         * Disabling any action when pressing of the mouse wheel (Chrome,
IE, Opera, Safari)
         */
        $(document).mousedown(function(e) {
            if(e.button == 1){
                e.preventDefault();
                return false;
            }
        });

        function navClickHandler(e) {
            e.preventDefault();
            var index = $(this).parent().index();
            scrollPage($('.ms-left .ms-section').eq(index));
        }

        //navigation action
        $(document).on('click', '#multiscroll-nav a', navClickHandler);

        function navMouseEnterHandler() {
            var tooltip = $(this).data('tooltip');
            $('<div class="multiscroll-tooltip ' +
options.navigationPosition +'">' + tooltip +
'</div>').hide().appendTo($(this)).fadeIn(200);
        }

        function navMouseLeaveHandler() {
            $(this).find('.multiscroll-tooltip').fadeOut(200, function() {
                $(this).remove();
            });
        }

        //navigation tooltips
        $(document).on({
            mouseenter: navMouseEnterHandler,
            mouseleave: navMouseLeaveHandler
        }, '#multiscroll-nav li');


        if(options.normalScrollElements){
            $(document).on('mouseenter', options.normalScrollElements,
function () {
                MS.setMouseWheelScrolling(false);
            });

            $(document).on('mouseleave', options.normalScrollElements,
function(){
                MS.setMouseWheelScrolling(true);
            });
        }


        //when resizing the site, we adjust the heights of the sections
        $(window).on('resize', resizeHandler);


        var previousHeight = windowHeight;

        /**
         * When resizing is finished, we adjust the slides sizes and
positions
         */
        function resizeHandler() {
            // rebuild immediately on touch devices
            if (isTouchDevice) {
                var activeElement = $(document.activeElement);

                //if the keyboard is NOT visible
                if (!activeElement.is('textarea') &&
!activeElement.is('input') && !activeElement.is('select')) {
                    var currentHeight = $(window).height();

                    //making sure the change in the viewport size is
enough to force a rebuild. (20 % of the window to avoid problems when
hidding scroll bars)
                    if( Math.abs(currentHeight - previousHeight) > (20 *
Math.max(previousHeight, currentHeight) / 100) ){
                        reBuild(true);
                        previousHeight = currentHeight;
                    }
                }
            }else{
                //in order to call the functions only when the resize is
finished

//http://stackoverflow.com/questions/4298612/jquery-how-to-call-resize-eve
nt-only-once-its-finished-resizing
                clearTimeout(resizeId);

                resizeId = setTimeout(function(){
                    reBuild(true);
                }, 350);
            }
        }

        /**
         * When resizing is finished, we adjust the slides sizes and
positions
         */
        function reBuild(resizing){
            windowHeight = $(window).height();
            $('.ms-tableCell').each(function() {
                $(this).css({ height: getTableHeight($(this).parent()) });
            });

            if(options.scrollOverflow){
                scrollBarHandler.createScrollBarForAll();
            }

            silentScroll();
            $.isFunction( options.afterResize ) &&
options.afterResize.call( this);
        }

        function silentScroll(){
            //moving the right section to the bottom
            if(options.css3){
                transformContainer($('.ms-left'), 'translate3d(0px, -' +
$('.ms-left').find('.ms-section.active').position().top + 'px, 0px)',
false);
```

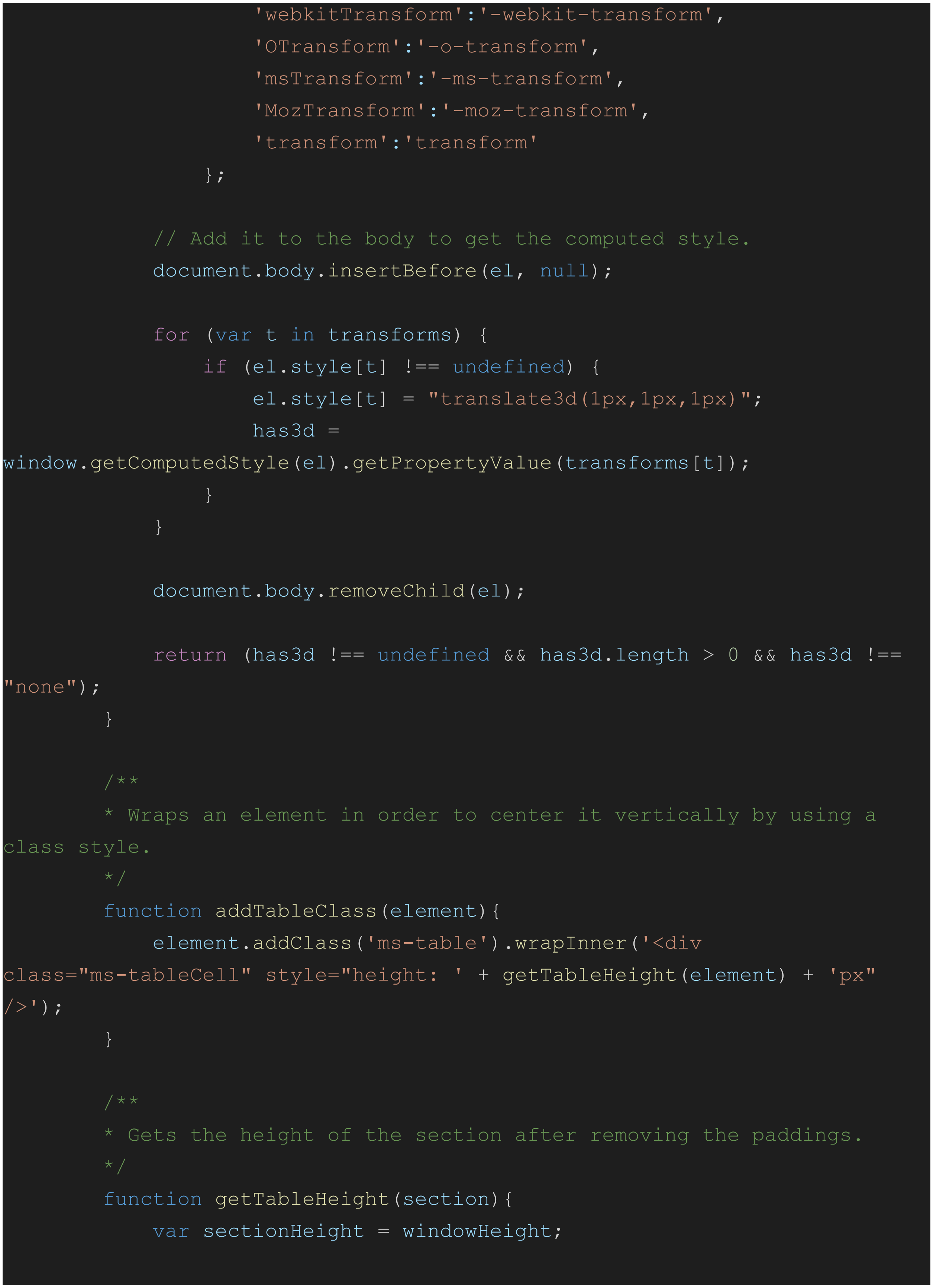
```
                transformContainer($('.ms-right'), 'translate3d(0px, -' +
$('.ms-right').find('.ms-section.active').position().top + 'px, 0px)',
false);
            }else{
                $('.ms-left').css('top',
-$('.ms-left').find('.ms-section.active').position().top );
                $('.ms-right').css('top',
-$('.ms-right').find('.ms-section.active').position().top );
            }
        }

        MS.moveSectionUp = function(){
            var prev = $('.ms-left
.ms-section.active').prev('.ms-section');

            if(!prev.length && options.loopTop){
                prev = $('.ms-left .ms-section').last();
            }

            if (prev.length) {
                scrollPage(prev);
            }
        };

        MS.moveSectionDown = function (){
            var next = $('.ms-left
.ms-section.active').next('.ms-section');

            if(!next.length && options.loopBottom ){
                next = $('.ms-left .ms-section').first();
            }

            if(next.length){
                scrollPage(next);
            }
        };

        MS.moveTo = function (section){
            var destiny = '';
```



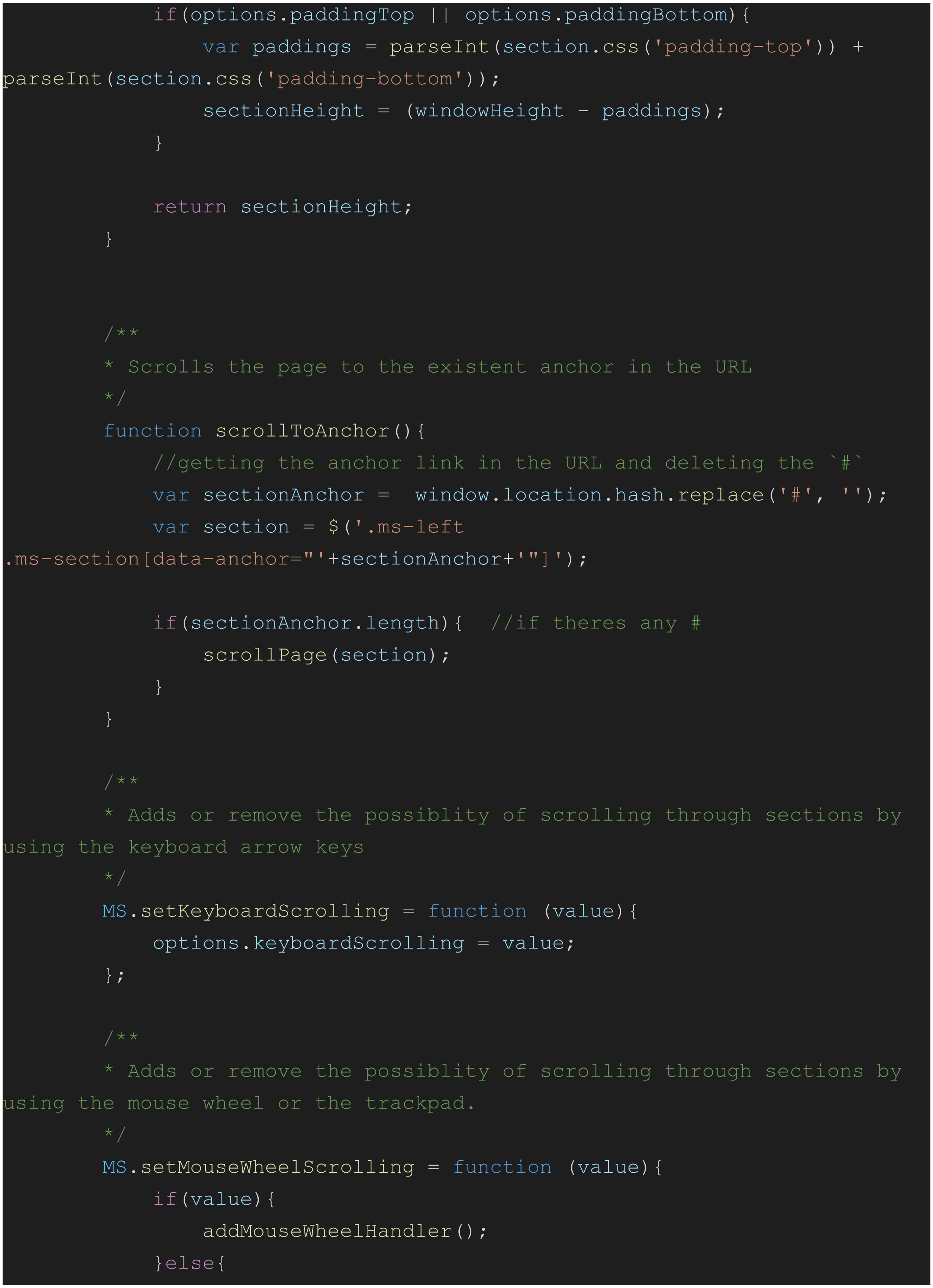
```
            if(isNaN(section)){
                destiny = $('.ms-left [data-anchor="'+section+'"]');
            }else{
                destiny = $('.ms-left .ms-section').eq( (section -1) );
            }

            scrollPage(destiny);
        };

        function scrollPage(leftDestination){
            var leftDestinationIndex = leftDestination.index();
            var rightDestination = $('.ms-right').find('.ms-section').eq(
numberSections -1 - leftDestinationIndex);
            var rightDestinationIndex = numberSections - 1 -
leftDestinationIndex;
            var anchorLink  = leftDestination.data('anchor');
            var activeSection = $('.ms-left .ms-section.active');
            var leavingSection = activeSection.index() + 1;
            var yMovement = getYmovement(leftDestination);

            //preventing from activating the MouseWheelHandler event
            //more than once if the page is scrolling
            isMoving = true;

            var topPos = {
                'left' : leftDestination.position().top,
                'right': rightDestination.position().top
            };


rightDestination.addClass('active').siblings().removeClass('active');

leftDestination.addClass('active').siblings().removeClass('active');

            setURLHash(anchorLink);

            // Use CSS3 translate functionality or...
            if (options.css3){
                //callback (onLeave)
                $.isFunction(options.onLeave) &&
options.onLeave.call(this, leavingSection, (leftDestinationIndex + 1),
yMovement);

                var translate3dLeft = 'translate3d(0px, -' +
topPos['left'] + 'px, 0px)';
                var translate3dRight = 'translate3d(0px, -' +
topPos['right'] + 'px, 0px)';

                transformContainer($('.ms-left'), translate3dLeft, true);
                transformContainer($('.ms-right'), translate3dRight,
true);

                setTimeout(function () {
                    //callback (afterLoad)
                    $.isFunction(options.afterLoad) &&
options.afterLoad.call(this, anchorLink, (leftDestinationIndex + 1));

                    setTimeout(function () {
                        isMoving = false;
                    }, scrollDelay);
                }, options.scrollingSpeed);
            }else{
                //callback (onLeave)
                $.isFunction(options.onLeave) &&
options.onLeave.call(this, leavingSection, (leftDestinationIndex + 1),
yMovement);

                $('.ms-left').animate({
                    'top': -topPos['left']
                }, options.scrollingSpeed, options.easing, function(){
                    $.isFunction(options.afterLoad) &&
options.afterLoad.call(this, anchorLink, (leftDestinationIndex + 1));

                    setTimeout(function () {
                        isMoving = false;
                    }, scrollDelay);
                });

                $('.ms-right').animate({
                    'top': -topPos['right']
                }, options.scrollingSpeed, options.easing);
            }

            //flag to avoid callingn `scrollPage()` twice in case of using
anchor links
            lastScrolledDestiny = anchorLink;

            activateMenuElement(anchorLink);
            activateNavDots(anchorLink, leftDestinationIndex);
        }

        /**
        * Removes the auto scrolling action fired by the mouse wheel and
tackpad.
        * After this function is called, the mousewheel and trackpad
movements won't scroll through sections.
        */
        function removeMouseWheelHandler(){
            if (document.addEventListener) {
                document.removeEventListener('mousewheel',
MouseWheelHandler, false); //IE9, Chrome, Safari, Oper
                document.removeEventListener('wheel', MouseWheelHandler,
false); //Firefox
            } else {
                document.detachEvent("onmousewheel", MouseWheelHandler);
//IE 6/7/8
            }
        }

        /**
        * Adds the auto scrolling action for the mouse wheel and tackpad.
        * After this function is called, the mousewheel and trackpad
movements will scroll through sections
        */
        function addMouseWheelHandler(){
            if (document.addEventListener) {
                document.addEventListener("mousewheel", MouseWheelHandler,
false); //IE9, Chrome, Safari, Oper
```

```
                document.addEventListener("wheel", MouseWheelHandler,
false); //Firefox
            } else {
                document.attachEvent("onmousewheel", MouseWheelHandler);
//IE 6/7/8
            }
        }

        /**
         * Detecting mousewheel scrolling
         *
         *
http://blogs.sitepointstatic.com/examples/tech/mouse-wheel/index.html
         * http://www.sitepoint.com/html5-javascript-mouse-wheel/
         */
        function MouseWheelHandler(e) {
            // cross-browser wheel delta
            e = window.event || e;
            var delta = Math.max(-1, Math.min(1,
                    (e.wheelDelta || -e.deltaY || -e.detail)));

            if (!isMoving) { //if theres any #

                //scrolling down?
                if (delta < 0) {
                    MS.moveSectionDown();
                }

                //scrolling up?
                else {
                    MS.moveSectionUp();
                }
            }


            return false;
        }

        /**
        * Adds a css3 transform property to the container class with or
without animation depending on the animated param.
        */
        function transformContainer(container, translate3d, animated){
            container.toggleClass('ms-easing', animated);

            container.css(getTransforms(translate3d));
        }


        /**
        * Returns the transform styles for all browsers
        */
        function getTransforms(translate3d){
            return {
                '-webkit-transform': translate3d,
                '-moz-transform': translate3d,
                '-ms-transform':translate3d,
                'transform': translate3d
            };
        }

        /**
         * Activating the website navigation dots according to the given
slide name.
         */
        function activateNavDots(name, sectionIndex){
            if(options.navigation){

$('#multiscroll-nav').find('.active').removeClass('active');
                if(name){
                    $('#multiscroll-nav').find('a[href="#' + name +
'"]').addClass('active');
                }else{

$('#multiscroll-nav').find('li').eq(sectionIndex).find('a').addClass('acti
ve');
                }
            }
        }
        /**
         * Activating the website main menu elements according to the
given slide name.
         */
        function activateMenuElement(name){
            if(options.menu){
                $(options.menu).find('.active').removeClass('active');

$(options.menu).find('[data-menuanchor="'+name+'"]').addClass('active');
            }
        }

        /**
        * Retuns `up` or `down` depending on the scrolling movement to
reach its destination
        * from the current section.
        */
        function getYmovement(destiny){
            var fromIndex = $('.ms-left .ms-section.active').index();
            var toIndex = destiny.index();

            if(fromIndex > toIndex){
                return 'up';
            }
            return 'down';
        }


        /**
        * Sets the URL hash for a section with slides
        */
        function setURLHash(anchorLink){
            if(options.anchors.length){
                location.hash = anchorLink;
            }

            setBodyClass();
        }
```

```
         /**
        * Sets a class for the body of the page depending on the active
section / slide
        */
        function setBodyClass(){
            var section = $('.ms-left .ms-section.active');
            var sectionAnchor = section.data('anchor');
            var sectionIndex = section.index();

            var text = String(sectionIndex);

            if(options.anchors.length){
                text = sectionAnchor;
            }

            //changing slash for dash to make it a valid CSS style
            text = text.replace('/', '-').replace('#','');

            //removing previous anchor classes
            var classRe = new RegExp('\\b\\s?' + 'ms-viewing' +
'-[^\\s]+\\b', "g");
            $('body')[0].className =
$('body')[0].className.replace(classRe, '');

            //adding the current anchor
            $('body').addClass('ms-viewing-' + text);
        }


        /**
        * Checks for translate3d support
        * @return boolean
        *
http://stackoverflow.com/questions/5661671/detecting-transform-translate3d
-support
        */
        function support3d() {
            var el = document.createElement('p'),
                has3d,
                transforms = {
```



```
                    'webkitTransform':'-webkit-transform',
                    'OTransform':'-o-transform',
                    'msTransform':'-ms-transform',
                    'MozTransform':'-moz-transform',
                    'transform':'transform'
                };

            // Add it to the body to get the computed style.
            document.body.insertBefore(el, null);

            for (var t in transforms) {
                if (el.style[t] !== undefined) {
                    el.style[t] = "translate3d(1px,1px,1px)";
                    has3d =
window.getComputedStyle(el).getPropertyValue(transforms[t]);
                }
            }

            document.body.removeChild(el);

            return (has3d !== undefined && has3d.length > 0 && has3d !==
"none");
        }

        /**
        * Wraps an element in order to center it vertically by using a
class style.
        */
        function addTableClass(element){
            element.addClass('ms-table').wrapInner('<div
class="ms-tableCell" style="height: ' + getTableHeight(element) + 'px"
/>');
        }

        /**
        * Gets the height of the section after removing the paddings.
        */
        function getTableHeight(section){
            var sectionHeight = windowHeight;
```



```
            if(options.paddingTop || options.paddingBottom){
                var paddings = parseInt(section.css('padding-top')) +
parseInt(section.css('padding-bottom'));
                sectionHeight = (windowHeight - paddings);
            }

            return sectionHeight;
        }


        /**
        * Scrolls the page to the existent anchor in the URL
        */
        function scrollToAnchor(){
            //getting the anchor link in the URL and deleting the `#`
            var sectionAnchor =  window.location.hash.replace('#', '');
            var section = $('.ms-left
.ms-section[data-anchor="'+sectionAnchor+'"]');

            if(sectionAnchor.length){  //if theres any #
                scrollPage(section);
            }
        }

        /**
        * Adds or remove the possiblity of scrolling through sections by
using the keyboard arrow keys
        */
        MS.setKeyboardScrolling = function (value){
            options.keyboardScrolling = value;
        };

        /**
        * Adds or remove the possiblity of scrolling through sections by
using the mouse wheel or the trackpad.
        */
        MS.setMouseWheelScrolling = function (value){
            if(value){
                addMouseWheelHandler();
            }else{
                removeMouseWheelHandler();
            }
        };

        /**
        * Defines the scrolling speed
        */
        MS.setScrollingSpeed = function(value){
            options.scrollingSpeed = value;
        };



        var touchStartY = 0;
        var touchStartX = 0;
        var touchEndY = 0;
        var touchEndX = 0;

        /* Detecting touch events

        * As we are changing the top property of the page on scrolling, we
can not use the traditional way to detect it.
        * This way, the touchstart and the touch moves shows an small
difference between them which is the
        * used one to determine the direction.
        */
        function touchMoveHandler(e){

            if(isReallyTouch(e)){
                //preventing the easing on iOS devices
                event.preventDefault();

                var activeSection = $('.ms-left .ms-section.active');

                if (!isMoving) { //if theres any #
                    var touchEvents = getEventsPage(e);
                    touchEndY = touchEvents['y'];
                    touchEndX = touchEvents['x'];
                    //is the movement greater than the minimum resistance
to scroll?
                    if (Math.abs(touchStartY - touchEndY) >
($(window).height() / 100 * options.touchSensitivity)) {

                        if (touchStartY > touchEndY) {
                            MS.moveSectionDown();

                        } else if (touchEndY > touchStartY) {
                            MS.moveSectionUp();
                        }
                    }
                }
            }
        }

        /**
        * As IE >= 10 fires both touch and mouse events when using a mouse
in a touchscreen
        * this way we make sure that is really a touch event what IE is
detecting.
        */
        function isReallyTouch(e){
            //if is not IE   ||  IE is detecting `touch` or `pen`
            return typeof e.pointerType === 'undefined' || e.pointerType
!= 'mouse';
        }


        /**
        * Handler to get he coordinates of the starting touch
        */
        function touchStartHandler(e){

            if(isReallyTouch(e)){
                var touchEvents = getEventsPage(e);
                touchStartY = touchEvents['y'];
                touchStartX = touchEvents['x'];
            }
        }
        /**
        * Adds the possibility to auto scroll through sections on touch
devices.
        */
        function addTouchHandler(){
            if(isTouch || isTouchDevice){
                document.removeEventListener(events.touchstart,
touchStartHandler);
                document.removeEventListener(events.touchmove,
touchMoveHandler, {passive: false});

                document.addEventListener(events.touchstart,
touchStartHandler);
                document.addEventListener(events.touchmove,
touchMoveHandler, {passive: false});
            }
        }

        /**
        * Removes the auto scrolling for touch devices.
        */
        function removeTouchHandler(){
            if(isTouch || isTouchDevice){
                document.removeEventListener(events.touchstart,
touchStartHandler);
                document.removeEventListener(events.touchmove,
touchMoveHandler, {passive: false});
            }
        }

        /*
        * Returns and object with Microsoft pointers (for IE<11 and for IE
>= 11)
        *
http://msdn.microsoft.com/en-us/library/ie/dn304886(v=vs.85).aspx
        */
        function getMSPointer(){
            var pointer;
            //IE >= 11
            if(window.PointerEvent){
                pointer = { down: "pointerdown", move: "pointermove"};
            }

            //IE < 11
            else{
                pointer = { down: "MSPointerDown", move: "MSPointerMove"};
            }

            return pointer;
        }

        /**
        * Gets the pageX and pageY properties depending on the browser.
        *
https://github.com/alvarotrigo/fullPage.js/issues/194#issuecomment-3406985
4
        */
        function getEventsPage(e){
            var events = [];

            events.y = (typeof e.pageY !== 'undefined' && (e.pageY ||
e.pageX) ? e.pageY : e.touches[0].pageY);
            events.x = (typeof e.pageX !== 'undefined' && (e.pageY ||
e.pageX) ? e.pageX : e.touches[0].pageX);

            //in touch devices with scrollBar:true, e.pageY is detected,
but we have to deal with touch events. #1008
            if(isTouch && isReallyTouch(e) && typeof e.touches !==
'undefined'){
                events.y = e.touches[0].pageY;
                events.x = e.touches[0].pageX;
            }

            return events;
        }

        /**
        * Destroy multiscroll.js plugin's events
        */
        MS.destroy = function() {
            MS.setKeyboardScrolling(false);
            MS.setMouseWheelScrolling(false);
            removeTouchHandler();

            $(window)
                .off('hashchange', hashChangeHandler)
                .off('resize', resizeHandler);

            $(document)
                .off('mouseenter', '#multiscroll-nav li')
                .off('mouseleave', '#multiscroll-nav li')
                .off('click', '#multiscroll-nav a');
        };

        /**
        * Build multiscroll.js plugin's events after destroy
        */
        MS.build = function() {
            MS.setKeyboardScrolling(true);
            MS.setMouseWheelScrolling(true);
            addTouchHandler();

            $(window)
                .on('hashchange', hashChangeHandler)
                .on('resize', resizeHandler);

            $(document)
                .on('mouseenter', '#multiscroll-nav li',
navMouseEnterHandler)
                .on('mouseleave', '#multiscroll-nav li',
navMouseLeaveHandler)
                .on('click', '#multiscroll-nav a', navClickHandler);
        };

    };
})(jQuery, window, document, Math);
```

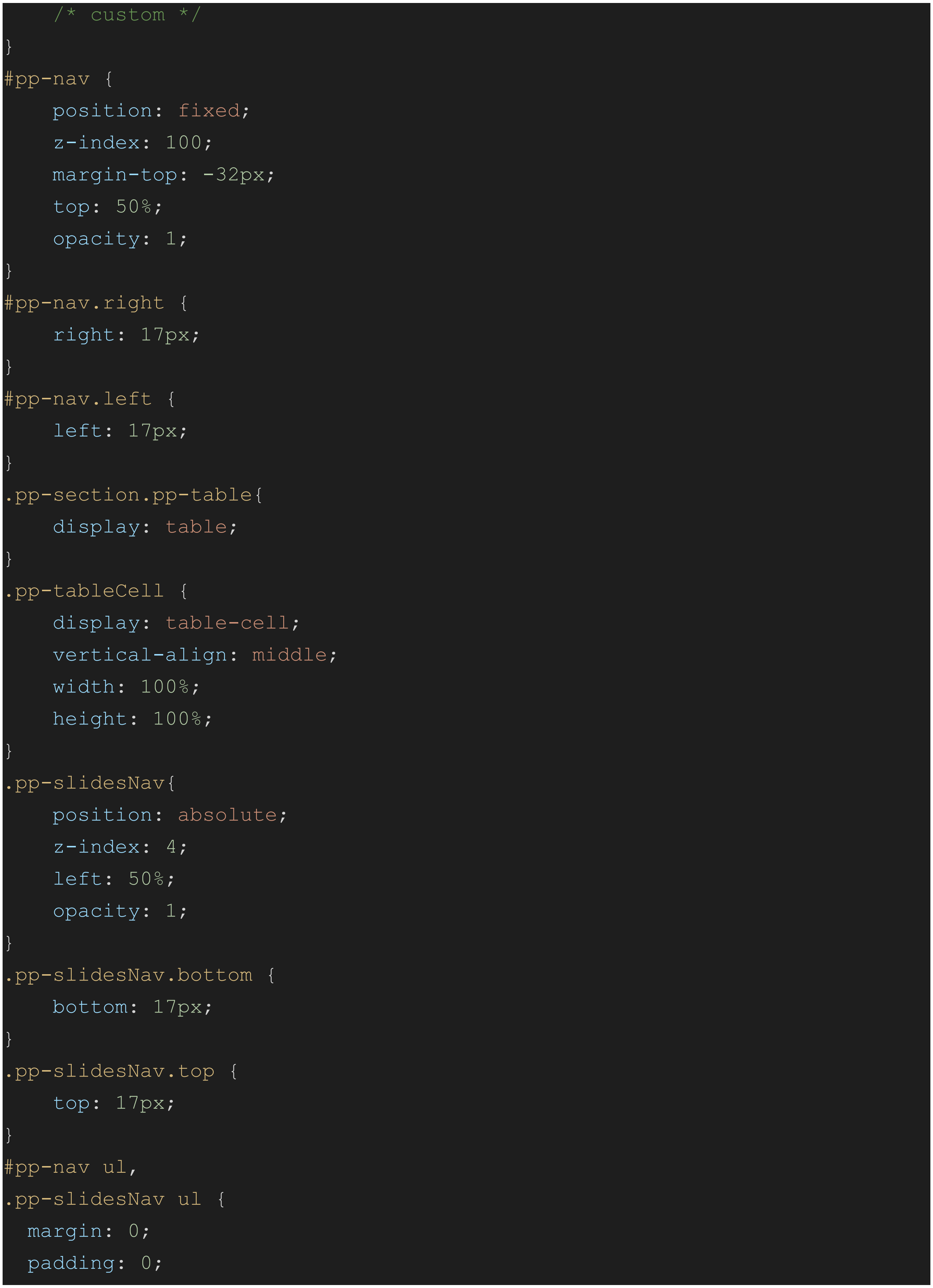
[redacted]

Jquery_two
.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Jquery plugin</title>
    <link rel="stylesheet" type="text/css" href="jquery.pagepiling.css" />
</head>

<body>
    <div id="pagepiling">
        <div class="section"><img src="../sunflower.jpg" alt=""></div>
        <div class="section"><img src="../rose.jpg" alt=""></div>
        <div class="section"><img src="../lilly.jpg" alt=""></div>

    </div>
    <script
src="http://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></s
cript>
    <script type="text/javascript" src="jquery.pagepiling.js"></script>
    <script type="text/javascript">
       $(document).ready(function() {
       $('#pagepiling').pagepiling();
   });
    </script>
</body>

</html>
```

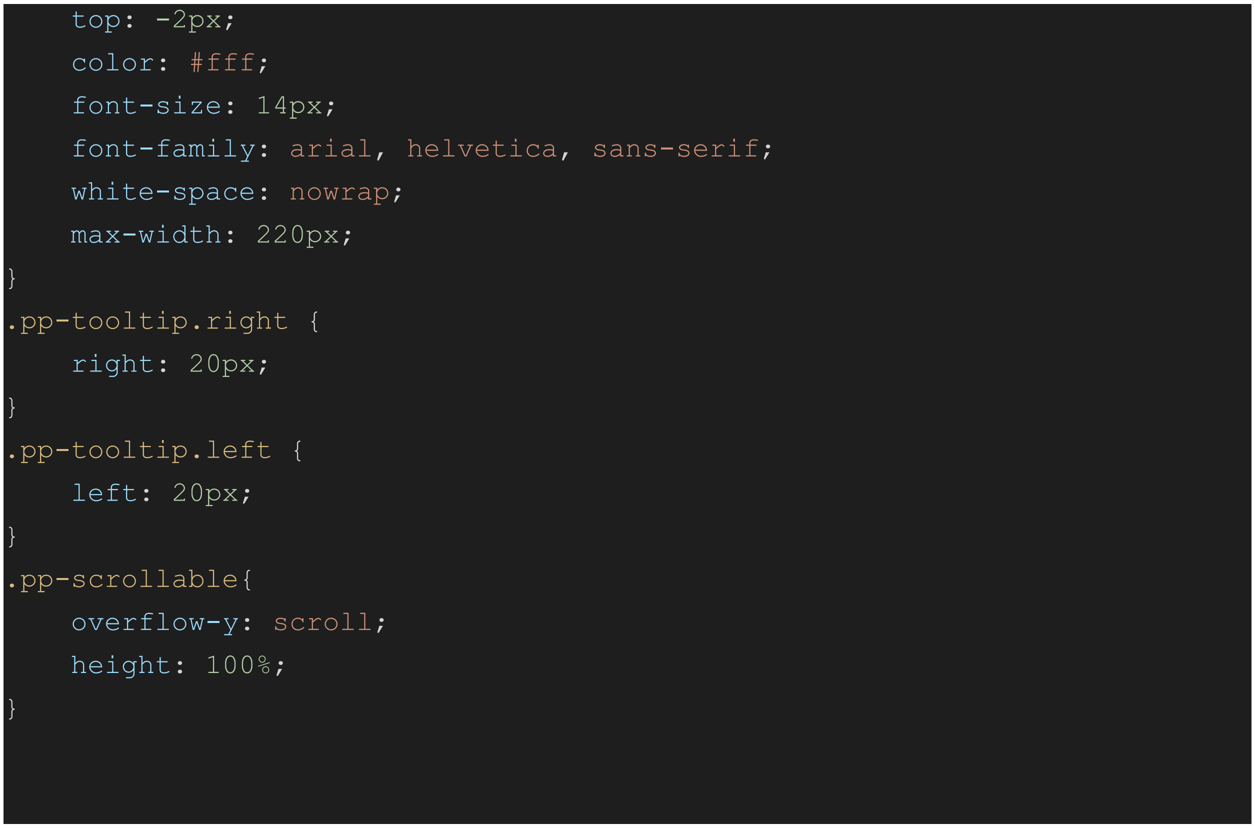
Css

```css
/*!
 * pagepiling.js 1.5.6
 *
 * https://github.com/alvarotrigo/pagePiling.js
 * @license MIT licensed
 *
 * Copyright (C) 2016 alvarotrigo.com - A project by Alvaro Trigo
 */
 html, body {
    overflow:hidden;
    margin:0;
    padding:0;

    /*Avoid flicker on slides transitions for mobile phones #336 */
    -webkit-tap-highlight-color: rgba(0,0,0,0);
}
.pp-section {
    height:100%;
    position:absolute;
    width:100%;

    /* fixes flickering in firefox*/
    backface-visibility: hidden;
}
.pp-easing {
    -webkit-transition: all 1000ms cubic-bezier(0.550, 0.085, 0.000, 0.990);
    -moz-transition: all 1000ms cubic-bezier(0.550, 0.085, 0.000, 0.990);
    -o-transition: all 1000ms cubic-bezier(0.550, 0.085, 0.000, 0.990);
    transition: all 1000ms cubic-bezier(0.550, 0.085, 0.000, 0.990);
    /* custom */
    -webkit-transition-timing-function: cubic-bezier(0.550, 0.085, 0.000, 0.990);
    -moz-transition-timing-function: cubic-bezier(0.550, 0.085, 0.000, 0.990);
    -o-transition-timing-function: cubic-bezier(0.550, 0.085, 0.000, 0.990);
    transition-timing-function: cubic-bezier(0.550, 0.085, 0.000, 0.990);
```



```
    /* custom */
}
#pp-nav {
    position: fixed;
    z-index: 100;
    margin-top: -32px;
    top: 50%;
    opacity: 1;
}
#pp-nav.right {
    right: 17px;
}
#pp-nav.left {
    left: 17px;
}
.pp-section.pp-table{
    display: table;
}
.pp-tableCell {
    display: table-cell;
    vertical-align: middle;
    width: 100%;
    height: 100%;
}
.pp-slidesNav{
    position: absolute;
    z-index: 4;
    left: 50%;
    opacity: 1;
}
.pp-slidesNav.bottom {
    bottom: 17px;
}
.pp-slidesNav.top {
    top: 17px;
}
#pp-nav ul,
.pp-slidesNav ul {
  margin: 0;
  padding: 0;
```

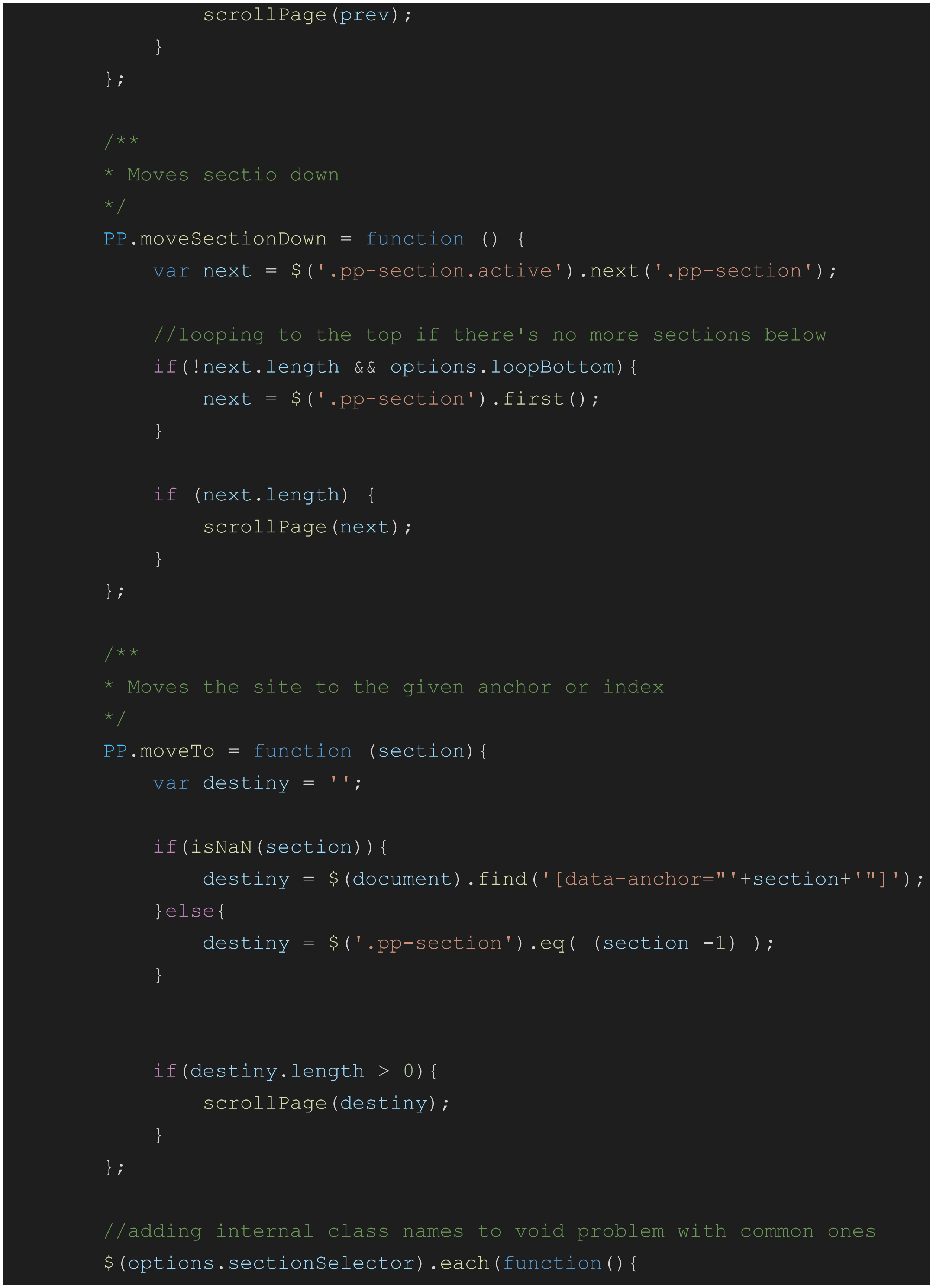
```
}
#pp-nav li,
.pp-slidesNav li {
    display: block;
    width: 14px;
    height: 13px;
    margin: 7px;
    position:relative;
}
.pp-slidesNav li {
    display: inline-block;
}
#pp-nav li a,
.pp-slidesNav li a {
    display: block;
    position: relative;
    z-index: 1;
    width: 100%;
    height: 100%;
    cursor: pointer;
    text-decoration: none;
}
#pp-nav li .active span,
.pp-slidesNav .active span {
    background: #333;
}
#pp-nav span,
.pp-slidesNav span {
    top: 2px;
    left: 2px;
    width: 8px;
    height: 8px;
    border: 1px solid #000;
    background: rgba(0, 0, 0, 0);
    border-radius: 50%;
    position: absolute;
    z-index: 1;
}
.pp-tooltip {
    position: absolute;
```



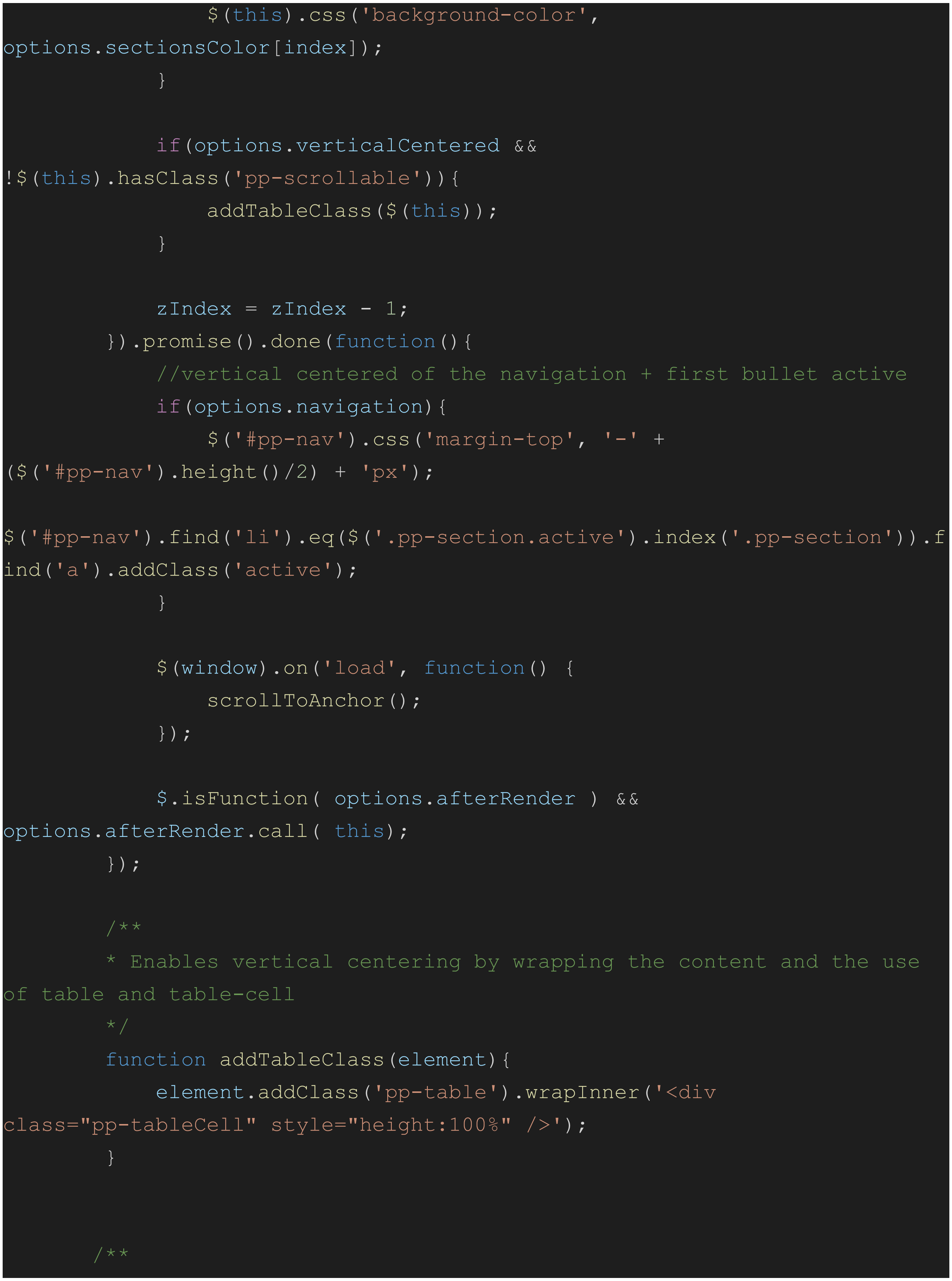
```css
    top: -2px;
    color: #fff;
    font-size: 14px;
    font-family: arial, helvetica, sans-serif;
    white-space: nowrap;
    max-width: 220px;
}
.pp-tooltip.right {
    right: 20px;
}
.pp-tooltip.left {
    left: 20px;
}
.pp-scrollable{
    overflow-y: scroll;
    height: 100%;
}
```

Js

```
/*!
 * pagepiling.js 1.5.6
 *
 * https://github.com/alvarotrigo/pagePiling.js
 * @license MIT licensed
 *
 * Copyright (C) 2016 alvarotrigo.com - A project by Alvaro Trigo
 */
(function ($, document, window, undefined) {
    'use strict';

    $.fn.pagepiling = function (custom) {
        var PP = $.fn.pagepiling;
        var container = $(this);
        var lastScrolledDestiny;
        var lastAnimation = 0;
        var isTouch = (('ontouchstart' in window) ||
(navigator.msMaxTouchPoints > 0) || (navigator.maxTouchPoints));
        var touchStartY = 0, touchStartX = 0, touchEndY = 0, touchEndX =
0;
        var scrollings = [];

        //Defines the delay to take place before being able to scroll to
the next section
        //BE CAREFUL! Not recommened to change it under 400 for a good
behavior in laptops and
        //Apple devices (laptops, mouses...)
        var scrollDelay = 600;

        // Create some defaults, extending them with any options that were
provided
        var options = $.extend(true, {
            direction: 'vertical',
            menu: null,
            verticalCentered: true,
            sectionsColor: [],
            anchors: [],
            scrollingSpeed: 700,
            easing: 'easeInQuart',
            loopBottom: false,
            loopTop: false,
            css3: true,
            navigation: {
                textColor: '#000',
                bulletsColor: '#000',
                position: 'right',
                tooltips: []
            },
            normalScrollElements: null,
            normalScrollElementTouchThreshold: 5,
            touchSensitivity: 5,
            keyboardScrolling: true,
            sectionSelector: '.section',
            animateAnchor: false,

            //events
            afterLoad: null,
            onLeave: null,
            afterRender: null
        }, custom);


        //easeInQuart animation included in the plugin
        $.extend($.easing,{ easeInQuart: function (x, t, b, c, d) { return
c*(t/=d)*t*t*t + b; }});

        /**
        * Defines the scrolling speed
        */
        PP.setScrollingSpeed = function(value){
           options.scrollingSpeed = value;
        };

        /**
        * Adds or remove the possiblity of scrolling through sections by
using the mouse wheel or the trackpad.
        */
        PP.setMouseWheelScrolling = function (value){
            if(value){
                addMouseWheelHandler();
            }else{
                removeMouseWheelHandler();
            }
        };

        /**
        * Adds or remove the possiblity of scrolling through sections by
using the mouse wheel/trackpad or touch gestures.
        */
        PP.setAllowScrolling = function (value){
            if(value){
                PP.setMouseWheelScrolling(true);
                addTouchHandler();
            }else{
                PP.setMouseWheelScrolling(false);
                removeTouchHandler();
            }
        };

        /**
        * Adds or remove the possiblity of scrolling through sections by
using the keyboard arrow keys
        */
        PP.setKeyboardScrolling = function (value){
            options.keyboardScrolling = value;
        };

        /**
        * Moves sectio up
        */
        PP.moveSectionUp = function () {
            var prev = $('.pp-section.active').prev('.pp-section');

            //looping to the bottom if there's no more sections above
            if (!prev.length && options.loopTop) {
                prev = $('.pp-section').last();
            }

            if (prev.length) {
```



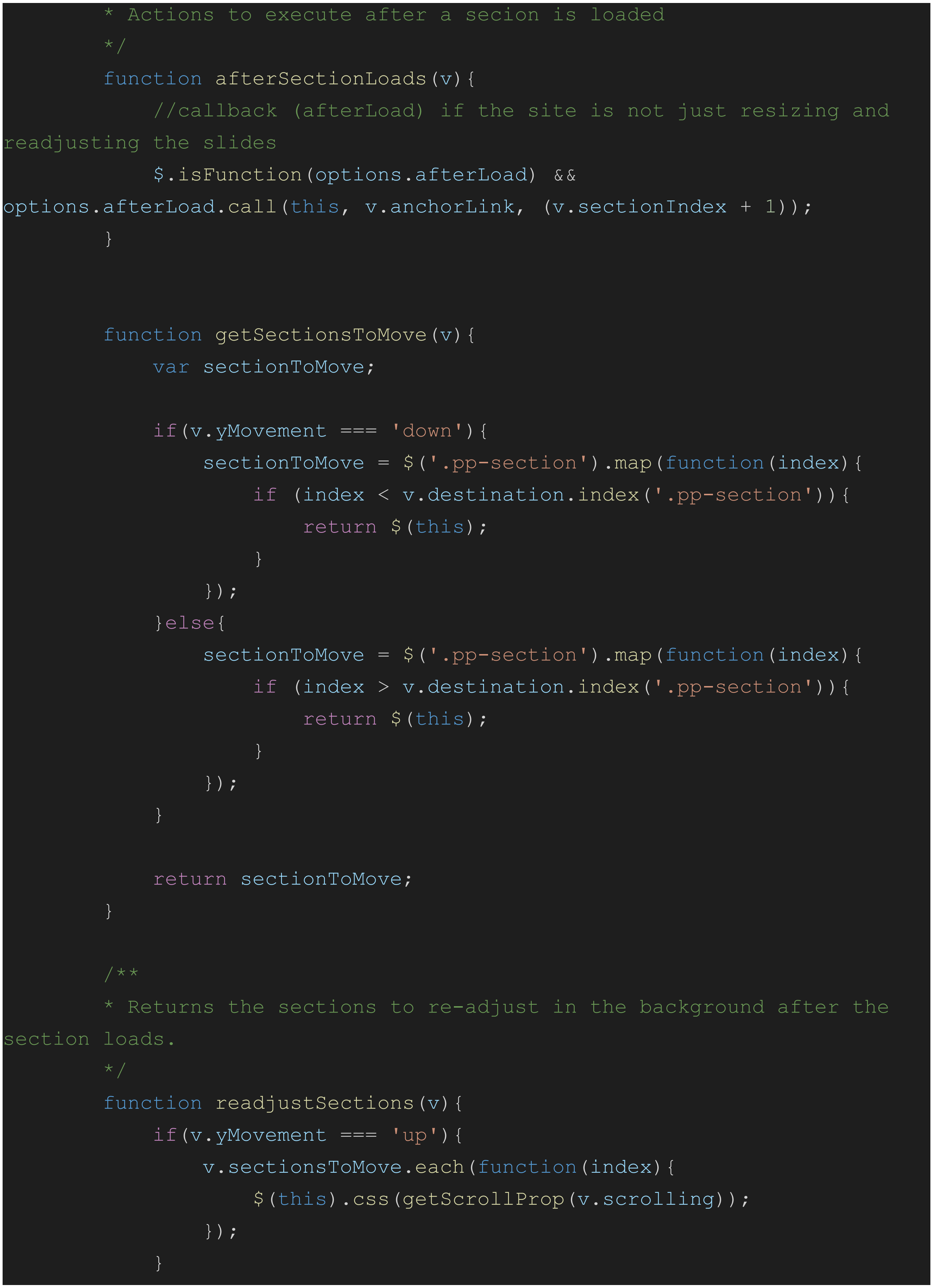
```
                scrollPage(prev);
            }
        };

        /**
        * Moves sectio down
        */
        PP.moveSectionDown = function () {
            var next = $('.pp-section.active').next('.pp-section');

            //looping to the top if there's no more sections below
            if(!next.length && options.loopBottom){
                next = $('.pp-section').first();
            }

            if (next.length) {
                scrollPage(next);
            }
        };

        /**
        * Moves the site to the given anchor or index
        */
        PP.moveTo = function (section){
            var destiny = '';

            if(isNaN(section)){
                destiny = $(document).find('[data-anchor="'+section+'"]');
            }else{
                destiny = $('.pp-section').eq( (section -1) );
            }


            if(destiny.length > 0){
                scrollPage(destiny);
            }
        };

        //adding internal class names to void problem with common ones
        $(options.sectionSelector).each(function(){
            $(this).addClass('pp-section');
        });

        //if css3 is not supported, it will use jQuery animations
        if(options.css3){
            options.css3 = support3d();
        }

        $(container).css({
            'overflow' : 'hidden',
            '-ms-touch-action': 'none',  /* Touch detection for Windows 8
*/
            'touch-action': 'none'       /* IE 11 on Windows Phone 8.1*/
        });

        //init
        PP.setAllowScrolling(true);

        //creating the navigation dots
        if (!$.isEmptyObject(options.navigation) ) {
            addVerticalNavigation();
        }

         var zIndex = $('.pp-section').length;

        $('.pp-section').each(function (index) {
            $(this).data('data-index', index);
            $(this).css('z-index', zIndex);

            //if no active section is defined, the 1st one will be the
default one
            if (!index && $('.pp-section.active').length === 0) {
                $(this).addClass('active');
            }

            if (typeof options.anchors[index] !== 'undefined') {
                $(this).attr('data-anchor', options.anchors[index]);
            }

            if (typeof options.sectionsColor[index] !== 'undefined') {
```



```
                $(this).css('background-color',
options.sectionsColor[index]);
            }

            if(options.verticalCentered &&
!$(this).hasClass('pp-scrollable')){
                addTableClass($(this));
            }

            zIndex = zIndex - 1;
        }).promise().done(function(){
            //vertical centered of the navigation + first bullet active
            if(options.navigation){
                $('#pp-nav').css('margin-top', '-' +
($('#pp-nav').height()/2) + 'px');

$('#pp-nav').find('li').eq($('.pp-section.active').index('.pp-section')).f
ind('a').addClass('active');
            }

            $(window).on('load', function() {
                scrollToAnchor();
            });

            $.isFunction( options.afterRender ) &&
options.afterRender.call( this);
        });

        /**
        * Enables vertical centering by wrapping the content and the use
of table and table-cell
        */
        function addTableClass(element){
            element.addClass('pp-table').wrapInner('<div
class="pp-tableCell" style="height:100%" />');
        }



       /**
```

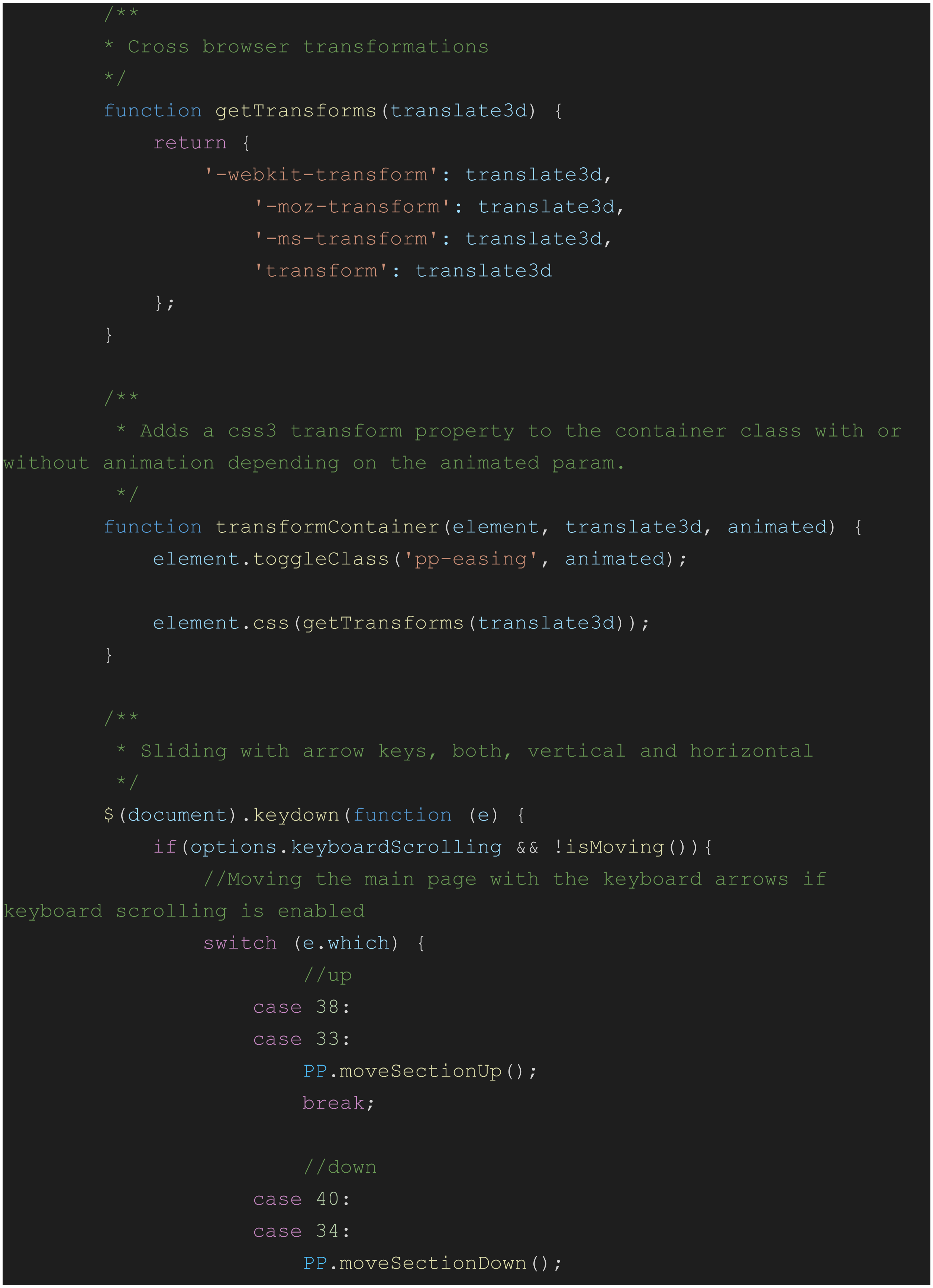
```
        * Retuns `up` or `down` depending on the scrolling movement to
reach its destination
        * from the current section.
        */
        function getYmovement(destiny){
            var fromIndex = $('.pp-section.active').index('.pp-section');
            var toIndex = destiny.index('.pp-section');

            if(fromIndex > toIndex){
                return 'up';
            }
            return 'down';
        }

        /**
        * Scrolls the page to the given destination
        */
        function scrollPage(destination, animated) {
            var v ={
                destination: destination,
                animated: animated,
                activeSection: $('.pp-section.active'),
                anchorLink: destination.data('anchor'),
                sectionIndex: destination.index('.pp-section'),
                toMove: destination,
                yMovement: getYmovement(destination),
                leavingSection:
$('.pp-section.active').index('.pp-section') + 1
            };

            //quiting when activeSection is the target element
            if(v.activeSection.is(destination)){ return; }

            if(typeof v.animated === 'undefined'){
                v.animated = true;
            }

            if(typeof v.anchorLink !== 'undefined'){
                setURLHash(v.anchorLink, v.sectionIndex);
            }
```

```
v.destination.addClass('active').siblings().removeClass('active');

            v.sectionsToMove = getSectionsToMove(v);

            //scrolling down (moving sections up making them disappear)
            if (v.yMovement === 'down') {
                v.translate3d = getTranslate3d();
                v.scrolling = '-100%';

                if(!options.css3){
                    v.sectionsToMove.each(function(index){
                        if(index != v.activeSection.index('.pp-section')){
                            $(this).css(getScrollProp(v.scrolling));
                        }
                    });
                }

                v.animateSection = v.activeSection;
            }

            //scrolling up (moving section down to the viewport)
            else {
                v.translate3d = 'translate3d(0px, 0px, 0px)';
                v.scrolling = '0';

                v.animateSection = destination;
            }

            $.isFunction(options.onLeave) && options.onLeave.call(this,
v.leavingSection, (v.sectionIndex + 1), v.yMovement);

            performMovement(v);

            activateMenuElement(v.anchorLink);
            activateNavDots(v.anchorLink, v.sectionIndex);
            lastScrolledDestiny = v.anchorLink;

            var timeNow = new Date().getTime();
            lastAnimation = timeNow;
        }

        /**
        * Performs the movement (by CSS3 or by jQuery)
        */
        function performMovement(v){
            if(options.css3){
                transformContainer(v.animateSection, v.translate3d,
v.animated);

                v.sectionsToMove.each(function(){
                    transformContainer($(this), v.translate3d,
v.animated);
                });

                setTimeout(function () {
                    afterSectionLoads(v);
                }, options.scrollingSpeed);
            }else{
                v.scrollOptions = getScrollProp(v.scrolling);

                if(v.animated){
                    v.animateSection.animate(
                        v.scrollOptions,
                    options.scrollingSpeed, options.easing, function () {
                        readjustSections(v);
                        afterSectionLoads(v);
                    });
                }else{
                    v.animateSection.css(getScrollProp(v.scrolling));
                    setTimeout(function(){
                        readjustSections(v);
                        afterSectionLoads(v);
                    },400);
                }
            }
        }

        /**
```

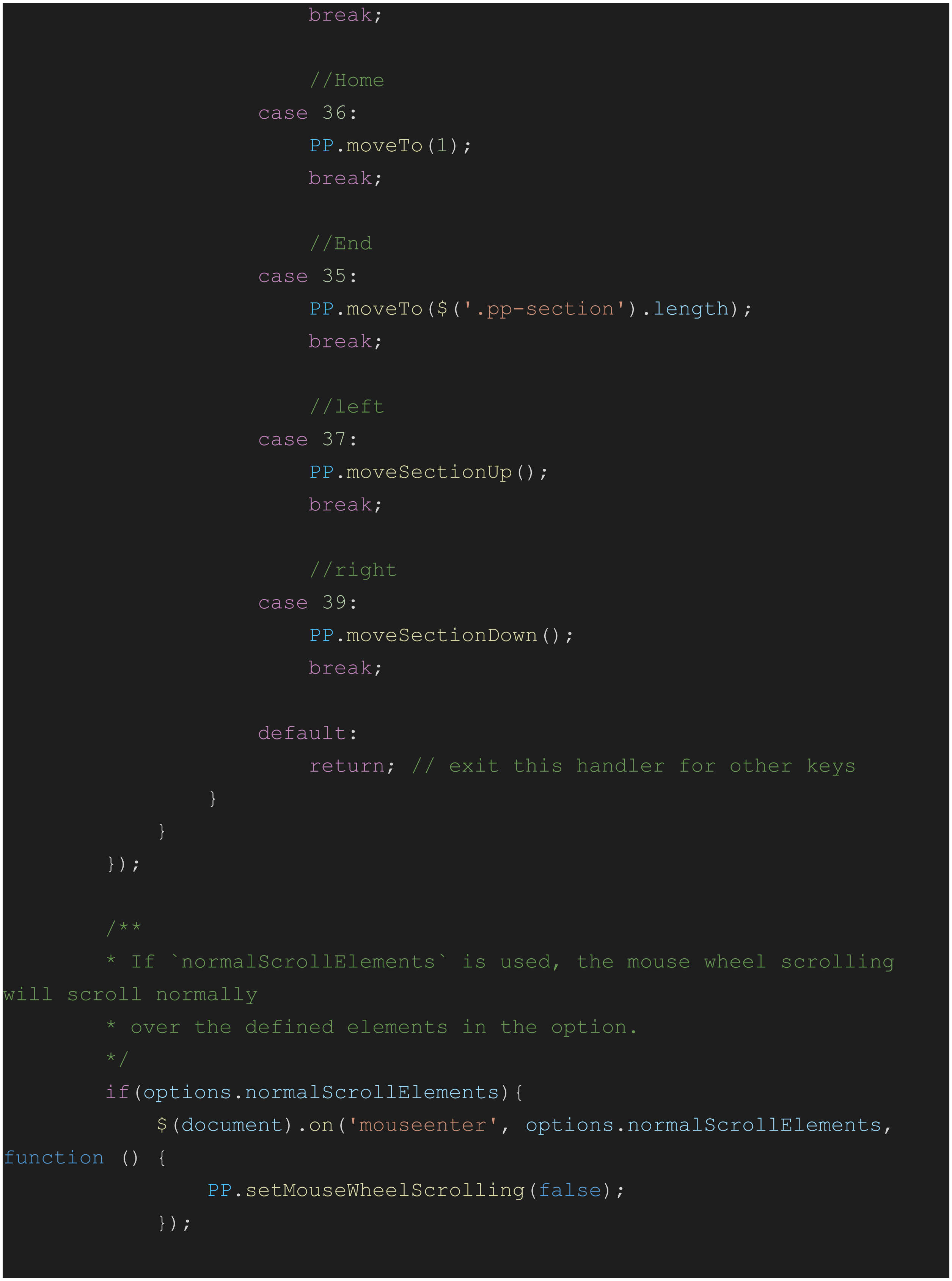


```
        * Actions to execute after a secion is loaded
        */
        function afterSectionLoads(v){
            //callback (afterLoad) if the site is not just resizing and
readjusting the slides
            $.isFunction(options.afterLoad) &&
options.afterLoad.call(this, v.anchorLink, (v.sectionIndex + 1));
        }


        function getSectionsToMove(v){
            var sectionToMove;

            if(v.yMovement === 'down'){
                sectionToMove = $('.pp-section').map(function(index){
                    if (index < v.destination.index('.pp-section')){
                        return $(this);
                    }
                });
            }else{
                sectionToMove = $('.pp-section').map(function(index){
                    if (index > v.destination.index('.pp-section')){
                        return $(this);
                    }
                });
            }

            return sectionToMove;
        }

        /**
        * Returns the sections to re-adjust in the background after the
section loads.
        */
        function readjustSections(v){
            if(v.yMovement === 'up'){
                v.sectionsToMove.each(function(index){
                    $(this).css(getScrollProp(v.scrolling));
                });
            }
        }

        /**
        * Gets the property used to create the scrolling effect when using
jQuery animations
        * depending on the plugin direction option.
        */
        function getScrollProp(propertyValue){
            if(options.direction === 'vertical'){
                return {'top': propertyValue};
            }
            return {'left': propertyValue};
        }

        /**
        * Scrolls the site without anymations (usually used in the
background without the user noticing it)
        */
        function silentScroll(section, offset){
            if (options.css3) {
                transformContainer(section, getTranslate3d(), false);
            }
            else{
                section.css(getScrollProp(offset));
            }
        }

        /**
        * Sets the URL hash for a section with slides
        */
        function setURLHash(anchorLink, sectionIndex){
            if(options.anchors.length){
                location.hash = anchorLink;

                setBodyClass(location.hash);
            }else{
                setBodyClass(String(sectionIndex));
            }
        }
        /**
        * Sets a class for the body of the page depending on the active
section / slide
        */
        function setBodyClass(text){
            //removing the #
            text = text.replace('#','');

            //removing previous anchor classes
            $('body')[0].className =
$('body')[0].className.replace(/\b\s?pp-viewing-[^\s]+\b/g, '');

            //adding the current anchor
            $('body').addClass('pp-viewing-' + text);
        }

        //TO DO
        function scrollToAnchor(){
            //getting the anchor link in the URL and deleting the `#`
            var value =  window.location.hash.replace('#', '');
            var sectionAnchor = value;
            var section =
$(document).find('.pp-section[data-anchor="'+sectionAnchor+'"]');

            if(section.length > 0){  //if theres any #
                scrollPage(section, options.animateAnchor);
            }
        }

        /**
        * Determines if the transitions between sections still taking
place.
        * The variable `scrollDelay` adds a "save zone" for devices such
as Apple laptops and Apple magic mouses
        */
        function isMoving(){
            var timeNow = new Date().getTime();
            // Cancel scroll if currently animating or within quiet period
            if (timeNow - lastAnimation < scrollDelay +
options.scrollingSpeed) {
```

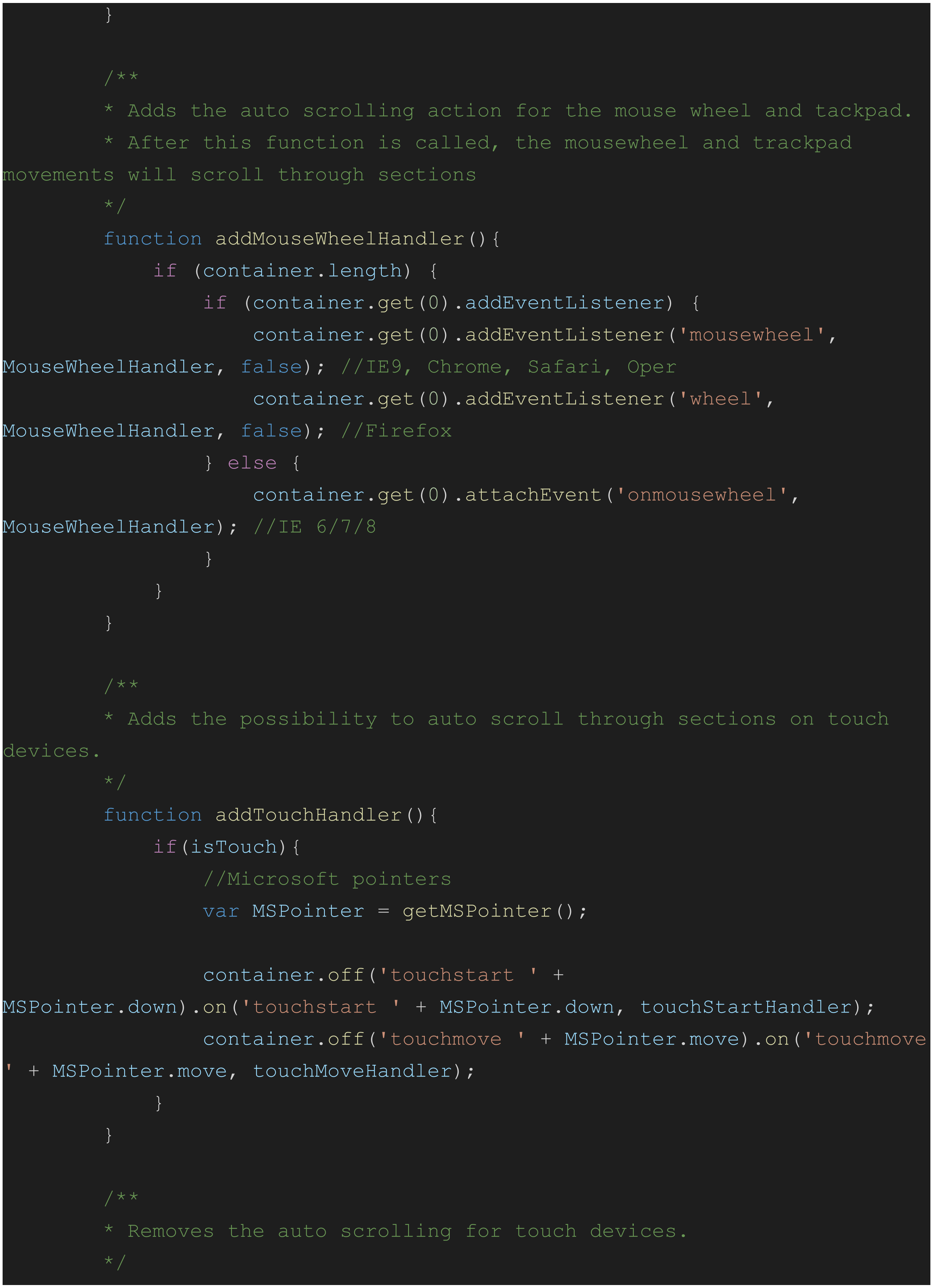
```
                return true;
            }
            return false;
        }

        //detecting any change on the URL to scroll to the given anchor link
        //(a way to detect back history button as we play with the hashes on the URL)
        $(window).on('hashchange', hashChangeHandler);

        /**
        * Actions to do when the hash (#) in the URL changes.
        */
        function hashChangeHandler(){
            var value =  window.location.hash.replace('#', '').split('/');
            var sectionAnchor = value[0];

            if(sectionAnchor.length){
                /*in order to call scrollpage() only once for each destination at a time
                It is called twice for each scroll otherwise, as in case of using anchorlinks `hashChange`
                event is fired on every scroll too.*/
                if (sectionAnchor && sectionAnchor !== lastScrolledDestiny)  {
                    var section;

                    if(isNaN(sectionAnchor)){
                        section = $(document).find('[data-anchor="'+sectionAnchor+'"]');
                    }else{
                        section = $('.pp-section').eq( (sectionAnchor -1) );

                    }
                    scrollPage(section);
                }
            }
        }
```



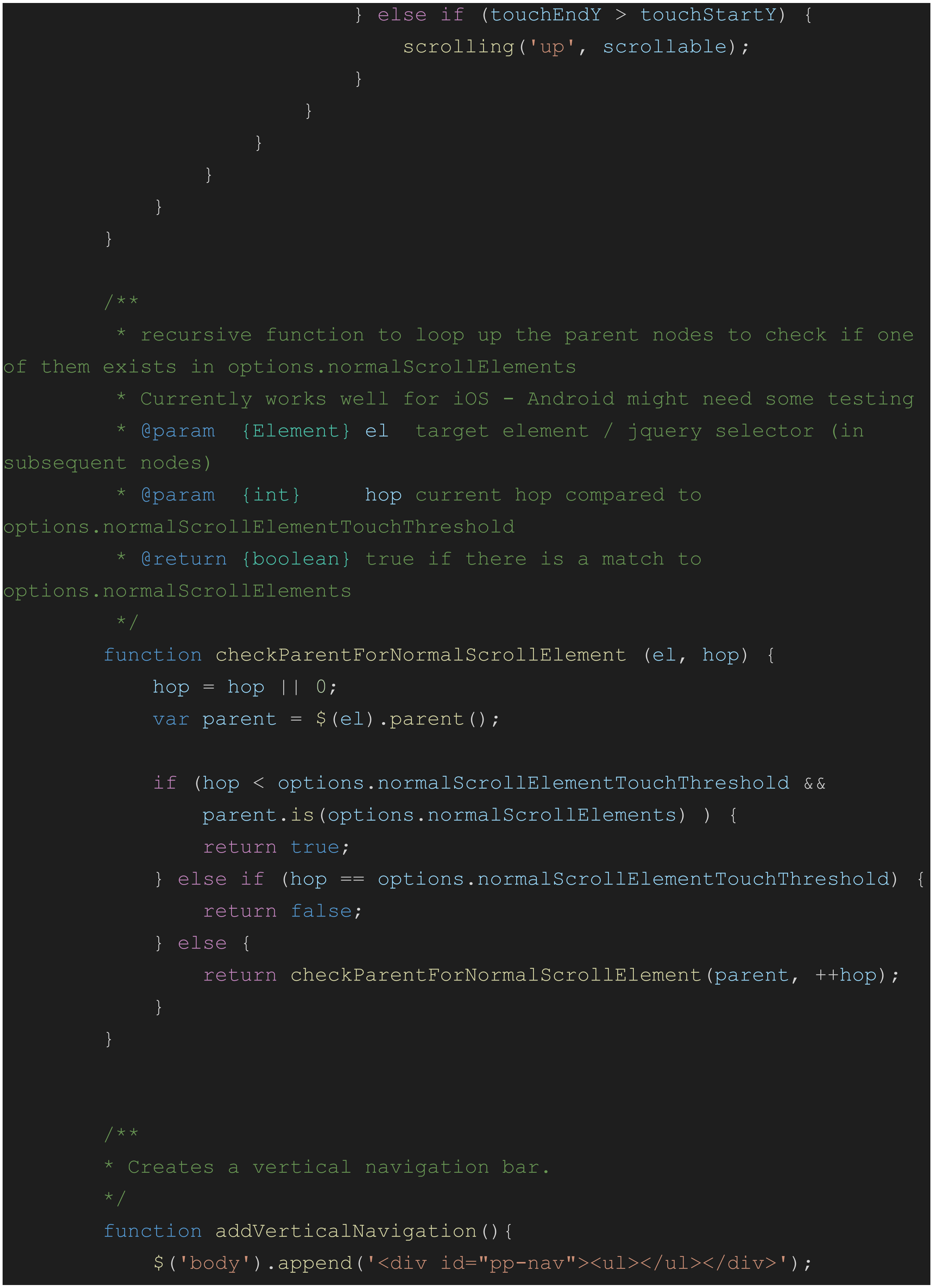
```
        /**
        * Cross browser transformations
        */
        function getTransforms(translate3d) {
            return {
                '-webkit-transform': translate3d,
                    '-moz-transform': translate3d,
                    '-ms-transform': translate3d,
                    'transform': translate3d
            };
        }

        /**
         * Adds a css3 transform property to the container class with or
without animation depending on the animated param.
         */
        function transformContainer(element, translate3d, animated) {
            element.toggleClass('pp-easing', animated);

            element.css(getTransforms(translate3d));
        }

        /**
         * Sliding with arrow keys, both, vertical and horizontal
         */
        $(document).keydown(function (e) {
            if(options.keyboardScrolling && !isMoving()){
                //Moving the main page with the keyboard arrows if
keyboard scrolling is enabled
                switch (e.which) {
                        //up
                    case 38:
                    case 33:
                        PP.moveSectionUp();
                        break;

                        //down
                    case 40:
                    case 34:
                        PP.moveSectionDown();
```



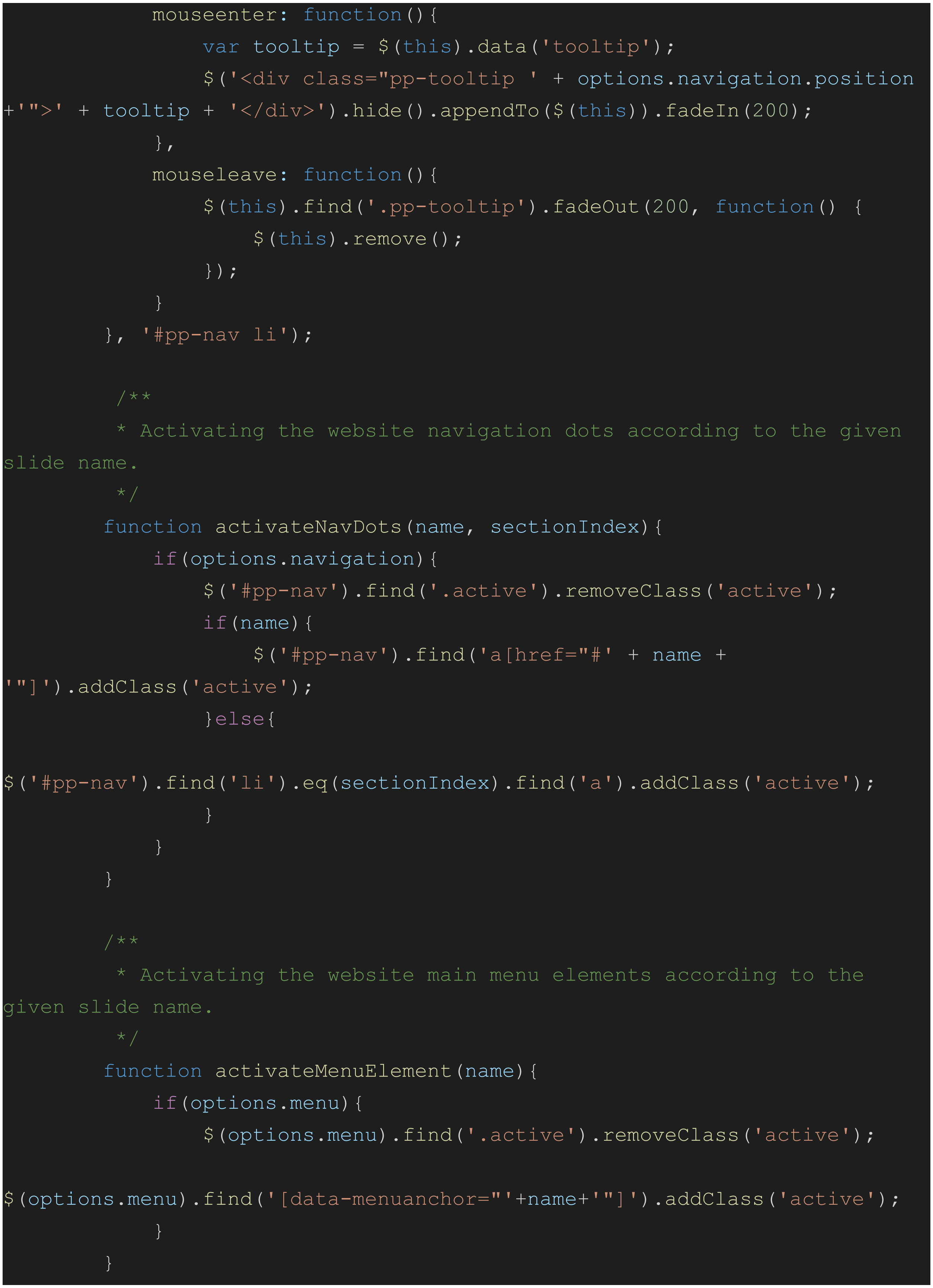
```
                        break;

                        //Home
                    case 36:
                        PP.moveTo(1);
                        break;

                        //End
                    case 35:
                        PP.moveTo($('.pp-section').length);
                        break;

                        //left
                    case 37:
                        PP.moveSectionUp();
                        break;

                        //right
                    case 39:
                        PP.moveSectionDown();
                        break;

                    default:
                        return; // exit this handler for other keys
                }
            }
        });

        /**
        * If `normalScrollElements` is used, the mouse wheel scrolling
will scroll normally
        * over the defined elements in the option.
        */
        if(options.normalScrollElements){
            $(document).on('mouseenter', options.normalScrollElements,
function () {
                PP.setMouseWheelScrolling(false);
            });
            $(document).on('mouseleave', options.normalScrollElements,
function(){
                PP.setMouseWheelScrolling(true);
            });
        }

        /**
         * Detecting mousewheel scrolling
         *
         *
http://blogs.sitepointstatic.com/examples/tech/mouse-wheel/index.html
         * http://www.sitepoint.com/html5-javascript-mouse-wheel/
         */
        var prevTime = new Date().getTime();

        function MouseWheelHandler(e) {
            var curTime = new Date().getTime();

            // cross-browser wheel delta
            e = e || window.event;
            var value = e.wheelDelta || -e.deltaY || -e.detail;
            var delta = Math.max(-1, Math.min(1, value));

            var horizontalDetection = typeof e.wheelDeltaX !== 'undefined'
|| typeof e.deltaX !== 'undefined';
            var isScrollingVertically = (Math.abs(e.wheelDeltaX) <
Math.abs(e.wheelDelta)) || (Math.abs(e.deltaX ) < Math.abs(e.deltaY) ||
!horizontalDetection);

            //Limiting the array to 150 (lets not waste memory!)
            if(scrollings.length > 149){
                scrollings.shift();
            }

            //keeping record of the previous scrollings
            scrollings.push(Math.abs(value));

            //time difference between the last scroll and the current one
            var timeDiff = curTime-prevTime;
            prevTime = curTime;
            //haven't they scrolled in a while?
            //(enough to be consider a different scrolling action to
scroll another section)
            if(timeDiff > 200){
                //emptying the array, we dont care about old scrollings
for our averages
                scrollings = [];
            }

            if(!isMoving()){
                var activeSection = $('.pp-section.active');
                var scrollable = isScrollable(activeSection);

                var averageEnd = getAverage(scrollings, 10);
                var averageMiddle = getAverage(scrollings, 70);
                var isAccelerating = averageEnd >= averageMiddle;

                if(isAccelerating && isScrollingVertically){
                    //scrolling down?
                    if (delta < 0) {
                        scrolling('down', scrollable);

                    //scrolling up?
                    }else if(delta>0){
                        scrolling('up', scrollable);
                    }
                }

                return false;
            }
         }

        /**
        * Gets the average of the last `number` elements of the given
array.
        */
        function getAverage(elements, number){
            var sum = 0;
            //taking `number` elements from the end to make the average,
if there are not enought, 1
            var lastElements = elements.slice(Math.max(elements.length -
number, 1));

            for(var i = 0; i < lastElements.length; i++){
                sum = sum + lastElements[i];
            }

            return Math.ceil(sum/number);
        }

        /**
        * Determines the way of scrolling up or down:
        * by 'automatically' scrolling a section or by using the default
and normal scrolling.
        */
        function scrolling(type, scrollable){
            var check;
            var scrollSection;

            if(type == 'down'){
                check = 'bottom';
                scrollSection = PP.moveSectionDown;
            }else{
                check = 'top';
                scrollSection = PP.moveSectionUp;
            }

            if(scrollable.length > 0 ){
                //is the scrollbar at the start/end of the scroll?
                if(isScrolled(check, scrollable)){
                    scrollSection();
                }else{
                    return true;
                }
            }else{
                //moved up/down
                scrollSection();
            }
        }

        /**
        * Return a boolean depending on whether the scrollable element is
at the end or at the start of the scrolling
        * depending on the given type.
        */
        function isScrolled(type, scrollable){
            if(type === 'top'){
                return !scrollable.scrollTop();
            }else if(type === 'bottom'){
                return scrollable.scrollTop() + 1 +
scrollable.innerHeight() >= scrollable[0].scrollHeight;
            }
        }

         /**
        * Determines whether the active section or slide is scrollable
through and scrolling bar
        */
        function isScrollable(activeSection){
            return activeSection.filter('.pp-scrollable');
        }

        /**
        * Removes the auto scrolling action fired by the mouse wheel and
tackpad.
        * After this function is called, the mousewheel and trackpad
movements won't scroll through sections.
        */
        function removeMouseWheelHandler(){
            if (container.get(0).addEventListener) {
                container.get(0).removeEventListener('mousewheel',
MouseWheelHandler, false); //IE9, Chrome, Safari, Oper
                container.get(0).removeEventListener('wheel',
MouseWheelHandler, false); //Firefox
            } else {
                container.get(0).detachEvent('onmousewheel',
MouseWheelHandler); //IE 6/7/8
            }
```



```
        }

        /**
        * Adds the auto scrolling action for the mouse wheel and tackpad.
        * After this function is called, the mousewheel and trackpad
movements will scroll through sections
        */
        function addMouseWheelHandler(){
            if (container.length) {
                if (container.get(0).addEventListener) {
                    container.get(0).addEventListener('mousewheel',
MouseWheelHandler, false); //IE9, Chrome, Safari, Oper
                    container.get(0).addEventListener('wheel',
MouseWheelHandler, false); //Firefox
                } else {
                    container.get(0).attachEvent('onmousewheel',
MouseWheelHandler); //IE 6/7/8
                }
            }
        }

        /**
        * Adds the possibility to auto scroll through sections on touch
devices.
        */
        function addTouchHandler(){
            if(isTouch){
                //Microsoft pointers
                var MSPointer = getMSPointer();

                container.off('touchstart ' +
MSPointer.down).on('touchstart ' + MSPointer.down, touchStartHandler);
                container.off('touchmove ' + MSPointer.move).on('touchmove
' + MSPointer.move, touchMoveHandler);
            }
        }

        /**
        * Removes the auto scrolling for touch devices.
        */
        function removeTouchHandler(){
            if(isTouch){
                //Microsoft pointers
                var MSPointer = getMSPointer();

                container.off('touchstart ' + MSPointer.down);
                container.off('touchmove ' + MSPointer.move);
            }
        }

        /*
        * Returns and object with Microsoft pointers (for IE<11 and for IE
>= 11)
        *
http://msdn.microsoft.com/en-us/library/ie/dn304886(v=vs.85).aspx
        */
        function getMSPointer(){
            var pointer;

            //IE >= 11 & rest of browsers
            if(window.PointerEvent){
                pointer = { down: 'pointerdown', move: 'pointermove', up:
'pointerup'};
            }

            //IE < 11
            else{
                pointer = { down: 'MSPointerDown', move: 'MSPointerMove',
up: 'MSPointerUp'};
            }

            return pointer;
        }

        /**
        * Gets the pageX and pageY properties depending on the browser.
        *
https://github.com/alvarotrigo/fullPage.js/issues/194#issuecomment-3406985
4
        */
        function getEventsPage(e){
            var events = new Array();

            events.y = (typeof e.pageY !== 'undefined' && (e.pageY ||
e.pageX) ? e.pageY : e.touches[0].pageY);
            events.x = (typeof e.pageX !== 'undefined' && (e.pageY ||
e.pageX) ? e.pageX : e.touches[0].pageX);

            return events;
        }

        /**
        * As IE >= 10 fires both touch and mouse events when using a mouse
in a touchscreen
        * this way we make sure that is really a touch event what IE is
detecting.
        */
        function isReallyTouch(e){
            //if is not IE   ||  IE is detecting `touch` or `pen`
            return typeof e.pointerType === 'undefined' || e.pointerType
!= 'mouse';
        }

        /**
        * Getting the starting possitions of the touch event
        */
        function touchStartHandler(event){
            var e = event.originalEvent;

            if(isReallyTouch(e)){
                var touchEvents = getEventsPage(e);
                touchStartY = touchEvents.y;
                touchStartX = touchEvents.x;
            }
        }

        /* Detecting touch events
        */
        function touchMoveHandler(event){
            var e = event.originalEvent;
            // additional: if one of the normalScrollElements isn't within
options.normalScrollElementTouchThreshold hops up the DOM chain
            if ( !checkParentForNormalScrollElement(event.target) &&
isReallyTouch(e) ) {

                var activeSection = $('.pp-section.active');
                var scrollable = isScrollable(activeSection);

                if(!scrollable.length){
                    event.preventDefault();
                }

                if (!isMoving()) {
                    var touchEvents = getEventsPage(e);
                    touchEndY = touchEvents.y;
                    touchEndX = touchEvents.x;

                  //$('body').append('<span style="position:fixed; top:
250px; left: 20px; z-index:88; font-size: 25px; color: #000;">touchEndY: '
+ touchEndY  + '</div>');

                    //X movement bigger than Y movement?
                    if (options.direction === 'horizontal' &&
Math.abs(touchStartX - touchEndX) > (Math.abs(touchStartY - touchEndY))) {
                        //is the movement greater than the minimum
resistance to scroll?
                        if (Math.abs(touchStartX - touchEndX) >
(container.width() / 100 * options.touchSensitivity)) {
                            if (touchStartX > touchEndX) {
                                scrolling('down', scrollable);
                            } else if (touchEndX > touchStartX) {
                                scrolling('up', scrollable);
                            }
                        }
                    } else {
                        if (Math.abs(touchStartY - touchEndY) >
(container.height() / 100 * options.touchSensitivity)) {
                            if (touchStartY > touchEndY) {
                                scrolling('down', scrollable);
```

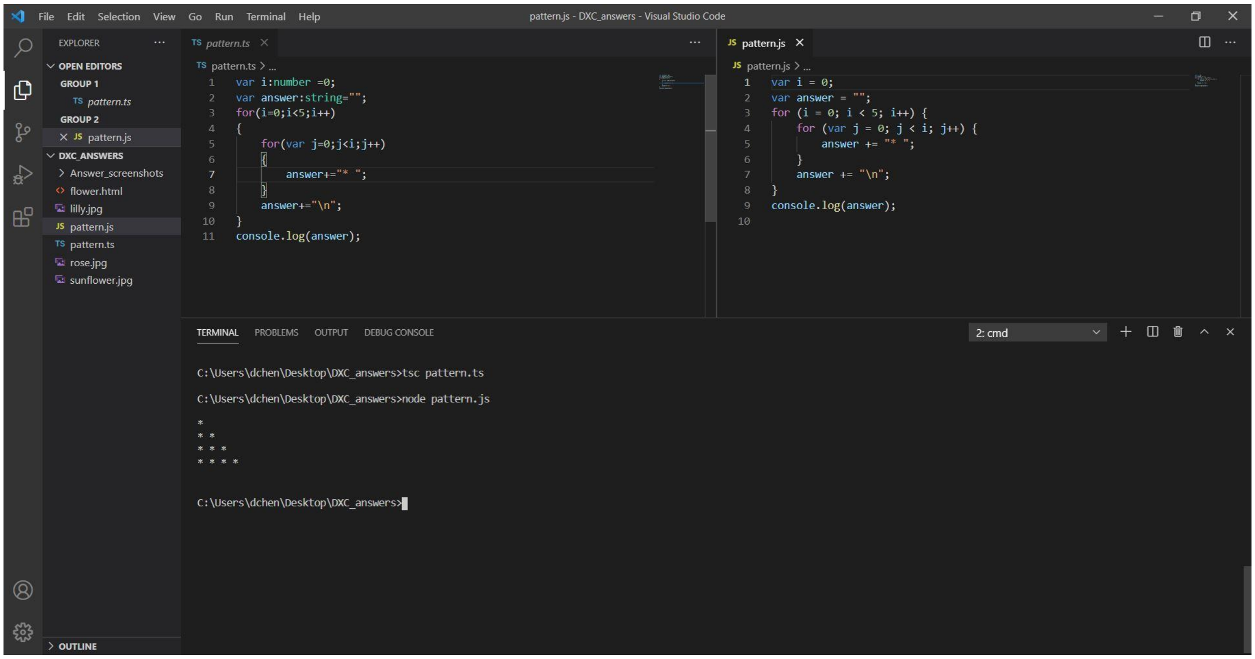


```
                            } else if (touchEndY > touchStartY) {
                                scrolling('up', scrollable);
                            }
                        }
                    }
                }
            }
        }

        /**
         * recursive function to loop up the parent nodes to check if one
of them exists in options.normalScrollElements
         * Currently works well for iOS - Android might need some testing
         * @param  {Element} el  target element / jquery selector (in
subsequent nodes)
         * @param  {int}     hop current hop compared to
options.normalScrollElementTouchThreshold
         * @return {boolean} true if there is a match to
options.normalScrollElements
         */
        function checkParentForNormalScrollElement (el, hop) {
            hop = hop || 0;
            var parent = $(el).parent();

            if (hop < options.normalScrollElementTouchThreshold &&
                parent.is(options.normalScrollElements) ) {
                return true;
            } else if (hop == options.normalScrollElementTouchThreshold) {
                return false;
            } else {
                return checkParentForNormalScrollElement(parent, ++hop);
            }
        }


        /**
        * Creates a vertical navigation bar.
        */
        function addVerticalNavigation(){
            $('body').append('<div id="pp-nav"><ul></ul></div>');
            var nav = $('#pp-nav');

            nav.css('color', options.navigation.textColor);

            nav.addClass(options.navigation.position);

            for(var cont = 0; cont < $('.pp-section').length; cont++){
                var link = '';
                if(options.anchors.length){
                    link = options.anchors[cont];
                }
                if(options.navigation.tooltips !== 'undefined'){
                    var tooltip = options.navigation.tooltips[cont];
                    if(typeof tooltip === 'undefined'){
                        tooltip = '';
                    }
                }

                nav.find('ul').append('<li data-tooltip="' + tooltip +
'"><a href="#' + link + '"><span></span></a></li>');
            }

            nav.find('span').css('border-color',
options.navigation.bulletsColor);
        }

        /**
        * Scrolls to the section when clicking the navigation bullet
        */
        $(document).on('click touchstart', '#pp-nav a', function(e){
            e.preventDefault();
            var index = $(this).parent().index();

            scrollPage($('.pp-section').eq(index));
        });

        /**
        * Navigation tooltips
        */
        $(document).on({
```



```
            mouseenter: function(){
                var tooltip = $(this).data('tooltip');
                $('<div class="pp-tooltip ' + options.navigation.position
+'">' + tooltip + '</div>').hide().appendTo($(this)).fadeIn(200);
            },
            mouseleave: function(){
                $(this).find('.pp-tooltip').fadeOut(200, function() {
                    $(this).remove();
                });
            }
        }, '#pp-nav li');

         /**
         * Activating the website navigation dots according to the given
slide name.
         */
        function activateNavDots(name, sectionIndex){
            if(options.navigation){
                $('#pp-nav').find('.active').removeClass('active');
                if(name){
                    $('#pp-nav').find('a[href="#' + name +
'"]').addClass('active');
                }else{

$('#pp-nav').find('li').eq(sectionIndex).find('a').addClass('active');
                }
            }
        }

        /**
         * Activating the website main menu elements according to the
given slide name.
         */
        function activateMenuElement(name){
            if(options.menu){
                $(options.menu).find('.active').removeClass('active');

$(options.menu).find('[data-menuanchor="'+name+'"]').addClass('active');
            }
        }
        /**
        * Checks for translate3d support
        * @return boolean
        *
http://stackoverflow.com/questions/5661671/detecting-transform-translate3d
-support
        */
        function support3d() {
            var el = document.createElement('p'),
                has3d,
                transforms = {
                    'webkitTransform':'-webkit-transform',
                    'OTransform':'-o-transform',
                    'msTransform':'-ms-transform',
                    'MozTransform':'-moz-transform',
                    'transform':'transform'
                };

            // Add it to the body to get the computed style.
            document.body.insertBefore(el, null);

            for (var t in transforms) {
                if (el.style[t] !== undefined) {
                    el.style[t] = 'translate3d(1px,1px,1px)';
                    has3d =
window.getComputedStyle(el).getPropertyValue(transforms[t]);
                }
            }

            document.body.removeChild(el);

            return (has3d !== undefined && has3d.length > 0 && has3d !==
'none');
        }

        /**
        * Gets the translate3d property to apply when using css3:true
depending on the `direction` option.
        */
        function getTranslate3d(){
            if (options.direction !== 'vertical') {
                  return 'translate3d(-100%, 0px, 0px)';
            }

            return 'translate3d(0px, -100%, 0px)';
        }

    };
})(jQuery, document, window);
```

3.



```
var i:number =0;
var answer:string="";
for(i=0;i<5;i++)
{
    for(var j=0;j<i;j++)
    {
        answer+="* ";
    }
    answer+="\n";
}
console.log(answer);
```

```
var i = 0;
var answer = "";
for (i = 0; i < 5; i++) {
    for (var j = 0; j < i; j++) {
        answer += "* ";
    }
    answer += "\n";
}
console.log(answer);
```

```
C:\Users\dchen\Desktop\DXC_answers>tsc pattern.ts

C:\Users\dchen\Desktop\DXC_answers>node pattern.js

*
* *
* * *
* * * *


C:\Users\dchen\Desktop\DXC_answers>
```

4.

eshwar-component.html

```
<div id="hide" *ngIf="flag">
    <h1>Eshwar's Details</h1>
    <h1>My Name is {{name}}.</h1>
    <h1>This is my facebook page <a href="{{link}}" target="_blank">Link</a></h1>
    <h1>This is my linkedin <a href="{{link_linkedin}}" target="_blank">Link</a></h1>
</div>
<button (click)="hide()">Hide</button>
<button (click)="unhide()">Unhide</button>
```

Eshwar-component.ts

```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-eshwar',
  templateUrl: './eshwar.component.html',
  styleUrls: ['./eshwar.component.css']
})
export class EshwarComponent implements OnInit {
  flag:boolean=true;
  name="Eshwar Grandhe";
  link ="https://www.facebook.com/eswar.anirudh";
  link_linkedin ="https://www.linkedin.com/in/eshwar-anirudh-782288178";
  public hide(){
    this.flag = false;
  }
  public unhide(){
    this.flag = true;
  }
  constructor() { }

  ngOnInit(): void {
  }


}
```

App.component.css

```
<app-eshwar></app-eshwar>
```

5.
a)

1.To create fruit table

```
CREATE TABLE "FruitPrice" (
    "fruit"    TEXT NOT NULL,
    "price"    REAL NOT NULL,
    "unit"    TEXT NOT NULL
);

CREATE TABLE "FruitComsumption" (
    "date"    TEXT NOT NULL,
    "fruit"    TEXT NOT NULL,
    "quantity"    INTEGER NOT NULL
);
```

2.Insert into fruit table

```
INSERT INTO FruitPrice(fruit, price, unit)
values
("mango", 125, "kg"),
("Banana", 45, "kg"),
("guava", 85, "kg"),
("Pineapple", 65, "kg");

Insert into FruitComsumption (date,fruit,quantity)
values
("2021-apr-01", "mango", 5),
("2021-apr-02", "mango", 6),
("2021-apr-03", "mango", 3),
("2021-apr-04"," mango", 2),
("2021-apr-05", "mango", 5),
("2021-apr-01", "guava", 15),
("2021-apr-02", "guava", 12),
("2021-apr-03", "guava", 6),
("2021-apr-04", "guava", 7),
("2021-apr-05", "guava", 8),
("2021-apr-01", "Banana", 1),
("2021-apr-02", "Banana", 2),
("2021-apr-03", "Banana", 1),
("2021-apr-04", "Banana", 2),
("2021-apr-05", "Banana", 2);
```

```
CREATE VIEW day_wise_amount as
SELECT date, sum(quantity*price) as total_amount FROM
FruitComsumption, FruitPrice WHERE FruitPrice.fruit = FruitComsumption.fruit GROUP
by date;

CREATE VIEW day_wise_quantity as
SELECT date,sum(quantity) as total_weight from FruitComsumption
GROUP by date

CREATE VIEW total_fruits as
SELECT fruit,sum(quantity) as total_comsumption FROM
FruitComsumption GROUP by fruit;
```