## Chapter 1: Creating Simple Maps with OpenLayers 3




Stable Only

ol.interaction.defaults (opt_options) $\odot$ \{ol.Collection.<ol.interaction.Interaction>\}
Set of interactions included in maps by default. Specific interactions can be excluded by setting the appropriate option to false in the constructor opti interactions is fixed. If you want to specify a different order for interactions. you will need to create your own ol. interact ion. Interact ion ins 01. Co11ection in the order you want before creating your 01. Map instance. The default set of interactions, in sequence, is

- ol.interaction. DragRotate
- o1.interaction. DoubleClickZoon
- ol.interaction. DragPan
- o1.interaction. PinchRotate
- ol.interaction. PinchZoom
- ol.interaction. KeyboardPan
- ol.interaction.KeyboardZoom
- ol.interaction. Mouse Whee 1 Zoom
- ol.interaction. DragZoom

Note that DragZoom renders a box as a vector polygon, so this interaction should be excluded if you want a build with no vector support.
Name
Type
options Defaults options
Name Type
altShiftDragRotate boolean lundefined
doubleClickZoom boolean/undefined
keyboard boolean I undefined
mouseWhee 1Zoom boolean | undefined
shiftDragzoom boolean l undefined
dragPan boolean I undefined

Description

Description
experimental Whether Alt-Shift-drag rotate is desired. Default is true
experimental Whether double click zoom is desired. Default is true experimental Whether keyboard interaction is desired. Default is true experimental Whether mousewheel zoom is desired. Default is true. experimental Whether Shift-drag zoom is desired. Default is true experimental Whether drag pan is desired. Default is true

## ol.proj.fromLonLat(coordinate, opt_projection) $\Theta$ \{ol.Coordinate\}

Transforms a coordinate from longitude/latitude to a different projection.

| Name | Type | Description |
| :--- | :--- | :--- |
| coordinate | ol.Coordinate | Coordinate as longitude and latitude, i.e. an array with longitude as 1st and latitude as 2nd element. |
| projection | ol.proj. ProjectionLike | Target projection. The default is Web Mercator, i.e. 'EPSG:3857'. |

## Returns:

Coordinate projected to the target projection




## Chapter 02: Applying Custom Styles

| Q Elements Network Sources Timeline Profiles Resources Audits Console HTTPS Everywhere |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| ```<div id="map" class="map"> V <div class="ol-viewport" style="position: relative; overflow: hidden; width: 100%; height: 100%;"> <canvas class="ol-unselectable" width="1332" height="274" style="width: 100%; height: 100%;"> <div class="ol-overlaycontainer"></div> V <div class="ol-overlaycontainer-stopevent"> V <div class="ol-zoom ol-unselectable ol-control ">``` |  | Styles Computed Event Listeners |  |  |
|  |  |  |  |  |
|  |  | ```_ .0l-zoom .0l-zoom-in { ch02_css.cs``` |  |  |
|  |  |  |  |  |
| <button class="ol-zoom-out" type="button" title="Zoom out"></button> </div> <br> <div class="ol-rotate ol-unselectable ol-control ol-hidden"> \ll/div> | ```.0l-zoom .0l-zoom-in { border radius! 2p* 2p*-00% }``` |  |  |  |
| - <div class="ol-zoomslider ol-unselectable ol-control ">... </div> <br> <div class="ol-mouse-position">-8883817.175416324,-2504688.542848656</div>〉div class="ol-scale-line ol-unselectable">…</div> |  |  |  |  |
| ```\ <div class="ol-overviewmap ol-unselectable ol-control ol-collapsed">>.</div> </div>``` |  | .ol-control button \{ $\quad$ ol.css:1display: block;margin: 1 lpx ;padding: 10 0; |  |  |
| </div> |  |  |  |  |
| html body div\#map.map div.01-viewport div.01-overlaycortainer-stopevent div.01-zoom.01-unselectable.01-control button.01-zoom-in |  | Find in S | Styles |  |





## Chapter 3: Working with Layers





## Chapter 4: Using Vector Data





Chapter 5: Creating Responsive Applications with Interactions and Controls






## Chapter 6: Controlling the Map - View and Projection





## 





## Chapter 7: Mastering Renderers





$$
\begin{aligned}
{\left[\begin{array}{lll}
-1 & 0 & +1 \\
-2 & 0 & +2 \\
-1 & 0 & +1
\end{array}\right] } & \begin{array}{ll|l|l|l|l|}
\hline & 1 & 1 & 3 & 2 \\
\hline 1 & 2 & 2 & 3 & 2 \\
\hline
\end{array} \begin{array}{lllll|l|l|}
\hline 2 & 3 & 2 & 3 & 3 \\
2 & 3 & 3 & 4 & 4 \\
\hline 2 & 3 & 4 & 4 & 5 \\
\hline-1 & 0 & +1 \\
\hline-2 & 0 & +4 \\
\hline-2 & 0 & +2 \\
\hline
\end{array} \\
G_{x} & =(-1)+0+(+1)+(-2)+0+(+4)+(-2)+0+(+2)=2
\end{aligned}
$$




## Chapter 8: OpenLayers 3 for Mobile





## Chapter 9: Tools of the Trade - Integrating ThirdParty Applications




/home/debian/qgis2web_2015_11_12-15_16_02/layers

layers.js spearfish6dem.jp spearfish6dem.jp worldcapitals.js worldcountries.js $\mathrm{g} \quad$ g.aux.xml



\section*{| + | - | B | M |
| :--- | :--- | :--- | :--- | :--- |}





## Chapter 10: Compiling Custom Builds with Closure

Node.js
Node.js command prompt
Node.js documentation
Node.js website
Node.js
Uninstall Node.js
图 Terminal - debian@mapserver: ~/ol3-3.11.1







| OL3 with Ellipsoid |
| :---: |
| Ssach Documensation |
| olellipsoid |
| Methods vincentyDistance |
| ol |
| olattribution |
| ol Collection |
| ol CollectionEvent |
| ol Deviceorientation |
| ol. rag goxivent |
| olf eature |
| olCeolocation |
| ol Craitule |
| ollmage |
| ollmageBase |
| olimagerile |
| olknetic |

ol.Ellipsoid
Class to create an ellipsoid to measure accurate geodesic distances, where accuracy is more important, than performance.
To create the WG584 ellipsoid:

new ol.Ellipsoid (a, flattening) experimental

| Name | Type | Descripton |
| :--- | :--- | :--- |
| a | Munber | Major radius |
| Flattening |  | Flatering |

Methods

Returns the distance from ct oc c2 using Vincenty.
$\begin{array}{lll}\text { Name } & \text { Type } & \text { Description } \\ \text { c1 } & \text { ol.coordinate } & \text { Coordinate 1 }\end{array}$
${ }_{c 2}$ alcoordinate Coordinate 1.
-
Minneltatarabia Nunter Minimum detialambda for convergence.
maxiterations number Maximumiterations.
Returns:
Vincenty distance
Documentation generated by JSDoc 4.0.0-beta. 1 on Wed Nov 182015 21:38:00 GMT +o100 (CET)

