

# GeoToolkitJS 2.6 Release Notes

## Release Highlights

- Added support of ArcGIS Webmap
- Added responsive style to support level of details
- Added transition animation
- Added line and fill shadows
- Added SVG animation
- Redesigned Map package to support different services and layers
- Added stylesheet reference for all classes
- Reduced CPU usage for Plot
- Added support of DOM events for individual nodes

## Carnac

- Added option to use TTF fonts symbols as a pattern element to fill area
- Added a new painter implementation to CarnacJS to render font symbols
- Added support for HTML text formatting tags and styles to text shape
- Added a cursor to the color bar to track the 3rd axis value
- Added CSV writer
- Added geometry region to support clipping
- Added option to scale line width and specify line width in different units
- Added margins and padding to node
- Added two events to plot to send before rendering and after rendering
- Added event to check if image is not loaded
- Added completion events flag on PDF rendering
- Added mode for opaque PNG images fast rendering to PDF
- Added support of animation to SVG
- Added support of multicanvas plot
- Added implementation of max-width of LayoutStyle
- Added filters to rendering context and AbstractNode
- Added option to control infinite auto update in the Plot
- Added hierarchy diagram in API reference
- Added geotoolkit.responsive.ResponsiveStyle to support level of details

## Map

- Added analog of MapImageLayer for ArcGIS
- Added support of layers of ArcGIS map feature source
- Added WMS Layer
- Added support of ArcGIS GeoServices
- Added Map Service

- Added Feature Service
- Added support of maxFeatures parameter to WFS
- Added support WFS services which load provided data for bounding box and zoom level
- Added support of on Demand mode for WFS and GeoJSON as result
- Aggregated symbols on map can now be expanded
- Added EPS support for coordinate systems
- Added CSV layer
- Added BingMap layer
- Added VectorTile Layer
- Added support of ArcGIS Webmap
- Improved performance
- Added KML Layer
- Added GeoRSS Layer
- Added Stream Layer
- Added support of Limited Error Raster Compression format

## Charts and Widgets

- Added horizontal Histogram
- Added Peity Charts (5 types)
- Added Activity Chart tutorial
- Created a tool to move legend from/to inside plot area
- Added area chart range fill support
- Added Stacked area chart
- New Support for Values on time series curves, similar to LogCurve
- Added option to center timeseries title text
- Added shadow effect for line and bar charts
- Added offset for PolarGrid labels
- Added optimization for line chart
- Added animation for line chart
- Removed deprecated API
- Improved strategy of scaling labels in new gauges
- Added clone and get/setProperties for Layout manager
- Created save map layer as GeoJSON
- Improved map scale tool
- Added option to adjust height or width of the axis for rotated text
- Optimized view cache double buffer
- Optimized export images to pdf
- Improved timeseriesgroup unit logic
- Added method disconnect for axes in AnnotatedWidget
- Improved all exportable widgets return Promise
- Improved moved unit conversion down to ScaledData to prevent LogCurve compute every time
- Optimized memory in text shape

- Optimized double-buffer rendering
- Improved drawing exponential regression line
- New demos and tutorials added:
  - Tutorial map with pie charts
  - Layout tutorial
  - Added a section to multicrossplot tutorial to show logarithmic mode
  - Level of details tutorial for gauges
  - Charts tutorial to show responsive style

## **Carnac3D module**

- Switched to three.js rev. 99
- Added Vector object
- Added orthographic Resize mode to plot
- Added RangeColorProvider can be used in 3d as ColorProvider
- Added a constant zoom mode for Orbit controller
- Fixed Picking when using logarithmic depth buffers
- Added ability for pointset not to scale with plotscale
- Added measure tool
- Added Abstract Tools add Mouse Down events
- Added selectionTool onHover
- Added Pyramid to pointsets default shapes
- Added null check on text overlap boxes
- Added OrthoResize mode
- Added Null check screenbox
- Added additional options for CompassArrow and CompassAxis
- Improved map Implements MinLOD for Bing quads support
- Improved pipeline clear function add clear to slicematerial
- Added dispose to SliceMaterial
- Improved parse fracturing dataset, associate color providers
- New schematic models: added animation
- New fracturing add deviation
- Improved Seismic Volume
- Updated TS for ThreeJS
- New Planarmovetool tool, allow a pre-filter for picking
- Improved planarmovetool to act on the object's position plane, not on a circle around the camera
- Disabled logdepthbuffer when in OrthographicCamera
- Added plot before render and after render events
- Updated shaders to allow logdepthbuffer to be true

## **Contour**

- Added ability to display one isoline from contour

- Added support of multi-color isolines
- Deleted multi area support in contour
- New demos and tutorials added: Contour on map demo

## Schematics

- Added Auxiliary Chart as widget to Seismic
- Added Cubic interpolation between traces
- Added API to configure annotations in Seismic Widget
- Added Deviated schematics labeling
- Added LShapedSchematicsWidget
- Added support for Non-symmetrical components
- Added support of inner diameter for SVG components
- Added a new ViewMode.KeepAspectRatio mode support to vertical schematics
- Added factory registry to setOptions
- Improved deviated well log performance
- New schematics elements should have access to the line style and color
- New demos and tutorials added:
  - Added a new schematics tutorial to show track schematics

## Seismic

- Added Auxiliary Chart as widget to Seismic
- Added Cubic interpolation between traces
- Added API to configure annotations in Seismic Widget
- Support UByte type of the header for remote seismic reader
- Created remote data source adapter for new IVAAP seismic API
- Added API to configure annotations in Seismic Widget
- Added option for SeismicWidget to specify location for title and horizontal colorbar location
- Added option to control an amount of traces to be requested from seismic reader in the section
- Added option direction to SeismicViewWidget to layout trace headers
- Added title to seismic widget
- Added support for 'uint64\_t' type value of the trace header
- Added floating annotations to seismic widget
- Added support of title, layout in pixels and other units
- Moved scrollbars in Seismic Widget to be aligned with data area.
- Optimized header table in seismic widget
- Improved Tick Generator for Variable Trace Spacing
- New demos and tutorials added: Add tutorials to show layers support

## WellLog

- Added StackedTrack as a container of tracks

- Added Annotation overlay to MultiWellWidget
- Integrated level of details using responsive styles for WellLog
- Optimized real-time LogCurve to reduce memory usage
- Added RasterLog
- Added core image tutorial
- Added composite header for WellLog visuals
- Added Stacked curve and fill
- Added reference curve to LogCurve and CompositeLogCurve
- Added support of text orientation and angle or rotation for discrete curve's text
- Added ghost tool
- Added field description to LogCurve
- Added support image deviation
- Added composite header for WellLog visuals
- Added vertical header type for lithology
- Added gap support for LogCurve
- Added option to move visuals forward, backward in the track
- Added Raster Log
- Added option to keep wells and tracks width fixed during horizontal scale
- Added support for core images (bitmap or other format) tied up with depth index to display into WellLog Track
- Added support of Log2D in deviated track.
- Removed deprecated API
- Optimized LogCurve and LogFill with optimized data
- Improved marker editor tool
- Improved marker text alignment and positions.
- Improved curve editing tool
- Changed StackedLogFillHeader to be adaptive
- Added enhancement on Log2D header to support color providers
- Added option to automatically shift labels for value curve if they intersect track borders
- Improved DataGapInterpolation logic
- Enabled clipping of handles to the visible area of the track containing the curve which is being manipulated
- Added padding options for all adaptive headers
- Widget accepts binding either `geotoolkit.data.DataBinding` OR `geotoolkit.data.DataBindingRegistry`
- Added min-width support for LogTrack
- New demos and tutorials added:
  - CrossSection demo with server-side
  - Updated Correlation demo
  - Added tutorial to show cutoff value for curve
  - Added tutorial to show how to display images and raster log in the track.
  - Added marker editing tutorial.