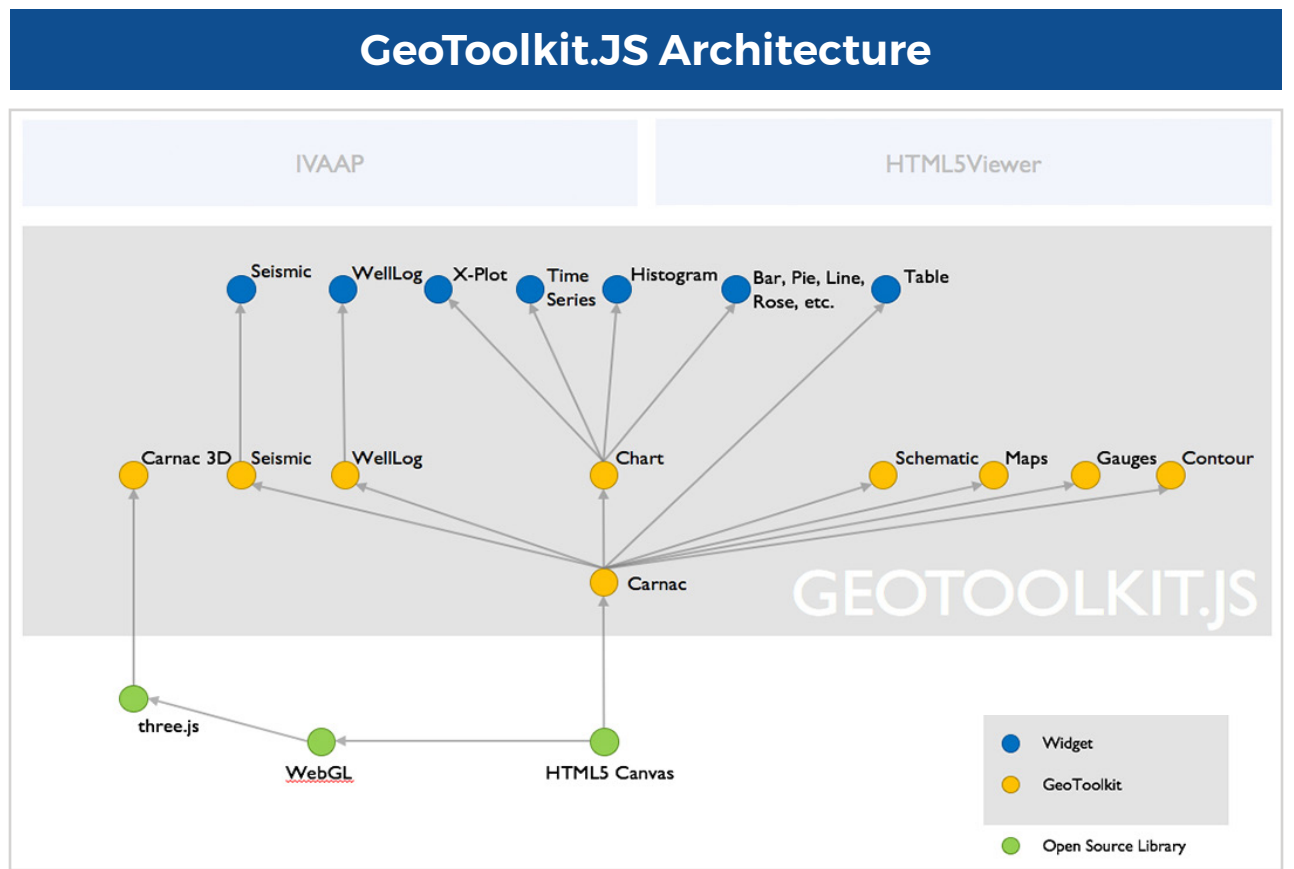


GeoToolkit.JS Features and Architecture Overview

Version 2.4



E&P Libraries and Widgets

WellLog	Seismic	Schematics	3D		
<p>Well Log Visuals</p> <ul style="list-style-type: none"> Log curve Discrete curve Tick curve Value curve Gradient curve Fill between two curves or base line Gradient fill Marker (tops) Lithology Annotations Array log Tadpole Rose diagram Density log Image log Waveform (requires seismic module) Custom/third-party visuals <p>Tracks</p> <ul style="list-style-type: none"> Linear Logarithmic Axis Navigation 	<p>Well Log Widget</p> <ul style="list-style-type: none"> Display single well log data Vertical or horizontal view Template support Interactive tool support Time or depth-based data Real-time support <p>Headers</p> <ul style="list-style-type: none"> Curve Fill Lithology histogram Track Custom/third-party <p>Correlation Widget</p> <ul style="list-style-type: none"> Display multiple wells Supports header/footer <p>Deviated View</p> <ul style="list-style-type: none"> Deviated view of existing visuals <p>Data Formats</p> <ul style="list-style-type: none"> Local LAS2/LAS3 reader 	<p>Widgets</p> <ul style="list-style-type: none"> Seismic widget Seismic widget with trace header table <p>Data Processing</p> <ul style="list-style-type: none"> Interpolation (linear, quadratic, step) Normalization (maximum, average, RMS, specific limits) Taper filter Automatic gain control <p>Display Features</p> <ul style="list-style-type: none"> Wiggles Positive and negative fill Variable density with custom color map Trace headers Decimation and clipping Vertical/horizontal display Trace headers table Time slices in base maps Auxiliary graph Overlay support 	<p>Data Formats</p> <ul style="list-style-type: none"> Local SEG-Y reader Memory data source Remote data source INTGeoServer integration with trace decimation and data compression <p>Real-time Support</p> <ul style="list-style-type: none"> Real-time traces Waveform DTS acquisition Shot monitoring 	<p>Display Features</p> <ul style="list-style-type: none"> Linear or compressed Vertical or deviated L-shaped Multi-string Labeling and annotations Real-time Lithology Well log track Options to integrate with your own schematics elements library (SVG) <p style="text-align: center; background-color: #004a87; color: white; padding: 5px;">Contour</p> <p>Display Features</p> <ul style="list-style-type: none"> Isolines with labels Colormap-based fill Faults <p>Headers</p> <ul style="list-style-type: none"> Regular rectangular grid Arbitrary triangular grid 	<p>Display Features</p> <ul style="list-style-type: none"> Grid Compass Three.js library integration Different cameras Well trajectory Log curve: cylinder or 2D Log fill Array log Well annotations Surfaces Height maps Seismic slices: basic & fancy Seismic overlays Pointset (microseismic) 2D map Animations Picking Reservoir grid VTK format support

Generic Libraries and Widgets (CARNAC Modules)

Base 2D Graphics	Charts	Gauges/Alarms	Maps	
<p>Scene Graph: Graphical Primitives</p> <ul style="list-style-type: none"> Line/polyline Polygon Rectangle Ellipse Arc Arrow Generic path (bezier) Spline Symbol Text Image Tiled image Groups <p>Node Layout</p> <ul style="list-style-type: none"> CSS Vertical/horizontal Grid Annotated 	<p>Table Widgets</p> <ul style="list-style-type: none"> Large dataset Sort Cell editing Custom cells <p>Export Options</p> <ul style="list-style-type: none"> Image PDF <p>Misc</p> <ul style="list-style-type: none"> Color bar Legends Color providers Scrollbars Support of CSS styles Persistence JSON schema Units Internationalization/Localization 	<p>Display Features</p> <ul style="list-style-type: none"> Area Bar Box plot Bubble Doughnut Histogram Pyramid Line Pie Radar Rose Scatter plot Tornado XY Line Heat map Multiseries Real-time support for all charts and widgets <p style="text-align: center; background-color: #004a87; color: white; padding: 5px;">Time Series</p> <p>Display Features</p> <ul style="list-style-type: none"> Time axis Annotations Overlays 	<p>Display Features</p> <ul style="list-style-type: none"> Circular (10 types) Half-circular (3 types) Linear (4 types) Numeric (3 types) Traffic (2 types) Custom gauges <p style="text-align: center; background-color: #004a87; color: white; padding: 5px;">Time Series</p> <p>Display Features</p> <ul style="list-style-type: none"> Time axis Annotations Overlays 	<p>Display Features</p> <ul style="list-style-type: none"> Support for different layers WMTS services: Google, MapQuest, ESRI, OpenStreet map GeoJSON support Overlays Contour layer (requires Contour module)