GeoToolkit.JS

Features and Architecture Overview

Version 2.4

Well Log Visuals

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

Well Log Widget

Display single well log data
Vertical or horizontal view
Template support
Interactive tool support
Real-time support

Headers

Curve
Fill
Lithology histogram
Track

Correlation Widget

Display multiple wells
Supports header/footer

Deviated View

Deviated view of existing visuals

Data Formats

Local LAS2/LAS3 reader

E&P Libraries and Widgets (CARNAC Modules)

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Waveform (requires seismic module)
Custom/third-party visuals

Tracks

Linear
Logarithmic
Axis
Navigation

Seismic

Seismic widget
Seismic widget with trace header table

Data Processing

Interpolation (linear, quadratic, step)
Normalization (maximum average, RMS specific limits)
Taper filter
Automatic gain control

Display Features

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

Seismic

Local SEG-Y reader
Memory data source
Remote data source
INTGeoServer integration
with trace decimation and data compression

Real-time Support

Real-time traces
Waveform
DTS acquisition
Shot monitoring

Seismic

Grid
Compass
Three.js library integration
Different cameras
Log trajectory
Log curve: cylinder or 2D
Log fill
Array log
Well annotations
Surfaces
Height maps
Seismic slices; basic & fancy
Seismic overlays
Pointset (microseismic)
2D maps
Animations
Picking
Reservoir grid
VTK format support

Maps

Display Features

Circular (10 types)
Half circular (5 types)
Linear (4 types)
Numeric (3 types)
Traffic (2 types)
Custom gauges

Time Series

Display Features

Time axis
Annotations
Overlays

Gauges/Alarms

Area
Bar
Box plot
Bubble
Donut
Histogram
Pyramid
Line
Pie
Radar
Rose
Scatter plot
Tornado
XY Line
Heat map
Multiseries
Real-time support for all charts and widgets

Data Formats

Local SEG-Y reader
Memory data source
Remote data source
INTGeoServer integration
with trace decimation and data compression

3D

Display Features

Grid
Compass
Three.js library integration
Different cameras
Log trajectory
Log curve: cylinder or 2D
Log fill
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Well annotations
Surfaces
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Pointset (microseismic)
2D maps
Animations
Picking
Reservoir grid
VTK format support

Base 2D Graphics

Axes and Grids

Regular interval
Adaptive (depending on current on zoom factor)
Logarithmic

Interactive Tools

Cross hair
Rubber-band
Point and area selection
Shape Editor

Data Source

Data Series: represent a single series of values
Data Table: a group of data series organized as table
Data View: read-only sub view of data series/table

Table Widgets

Large dataset
Sort
Cell editing
Custom cells

Export Options

Image
PDF

Misc

Color bar
Legends
Color providers
Scrollbars
Support of CSS styles
Persistence
JSON schema
Units
Internationalization/Localization

Charts

Display Features

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Gauges/Alarms

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INT

Empowering Visualization

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