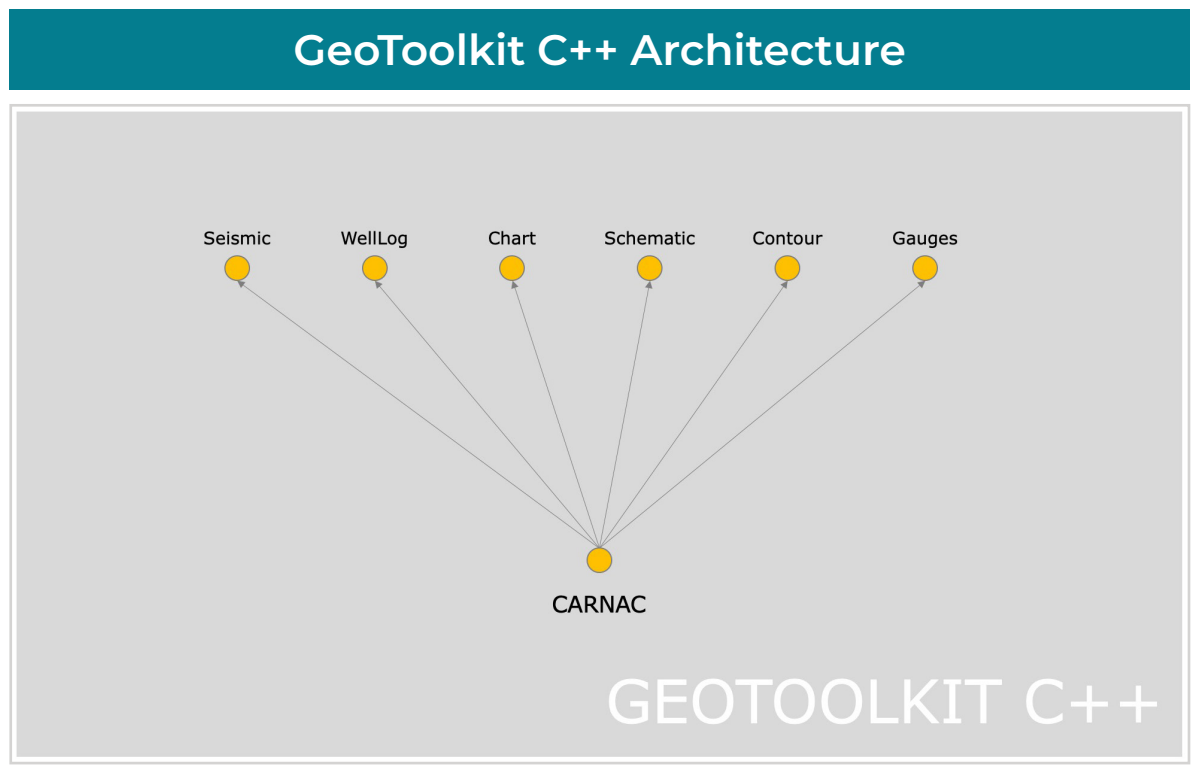


GeoToolkit C++ Features and Architecture Overview

Version 4.7



WellLog		Seismic		Schematic	
Widgets Single welllog Vertical or horizontal Templates Interactive tools Time- or depth-based data Real-time support Correlation Multiple wells Header and footer Cross-section Multiple wells with same vertical space WellLog Visuals Log Curve Fill between two curves or base line Gradient curve Gradient fill Marker (tops)	Lithology Annotations Array Log Tadpole Rose Diagram Density log Image log Waveform (requires seismic module) Custom/third-party visuals Headers Curve Fill Lithology histogram Track Custom/third-party visuals Tracks Linear Logarithmic Annotated	Axis Collapsed Tools Ghost Marker editor Curver samples editor Annotation Lithology interval editor Drag & Drop Well tracks Zoom Tool Tool Tip Tool Views Deviated Data Formats DLIS reader LAS2 reader/writer LAS3 reader	Data Formats Local SEG-Y reader Memory data source Seismic Unix format Indexed SEG-Y Indexing compatible with INTViewer Remote reader to read INTGeoServer and IVAAP data Widgets Seismic Widget Trace headers table FK display Spectrum Analyzer Data Processing Interpolation (linear, quadratic, step) Normalization (maximum, average, RMS, specific limits) Taper Filter Automatic Gain Control Compression / decompression data support (ZFP and Wavelet based) Support vectorization	Display Features Wiggles Positive and negative fill Variable density with custom color map Trace headers Decimation and clipping Vertical and horizontal display Trace headers table Base map Auxiliary graph Overlays support Variable trace spacing Gaps support Trace and samples selection Wiggles width Real-Time Data Acquisition and Display Export to Native CGM+ Seismic Format	Display Features Linear or Compressed Vertical or Deviated Labeling and annotations Lithology Options to integrate with your own schematics elements library (SVG) Schematic in WellLog track Contour Data Formats Regular rectangular grid Arbitrary triangular grid Contour grid interpolation support Display Features Isolines with labels Colormap-based fill Z-map and Gocad format support Faults

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Base 2D Graphics		Base Widgets		Gauges	
Graphical Primitives Line Polyline Polygon Rectangle Ellipse Arc Arrow Generic path (Bezier) Spline Symbol Text Image	Axes and Grids Regular interval Adaptive (depending on current zoom factor) Logarithmic Time-based Interactive Tools Cross-hair Rubber-band Shape editors Point and area selection Models and Scene Container memory scene Drawings scene Paged scene	Export Image PDF CGM Postscript Misc Color bar Legends Persistence SVG Parser Internationalization/localization	Charts Area Bar Plot Box Bubble Doughnut Histogram Line Pie Rose Scatter plot Tornado Polar Polar Heat Cob XY Line MultiSeries Legends Linked Supports multiple selection	Widgets Annotated (XY plot with multiple axes) XY plot QLayout Container BoxLayout Container PrintPreview QGraphicsScene Support Maps WMTS services: Google, MapQuest, ESRI, OpenStreet Map GeoJSON support Support of different layers Vector Tiles WFS services support Overlays ArcGIS tile service and ArcGIS feature service support	Gauges Circular Half-circular Linear Numeric Traffic Custom Generic Supported Platform Linux x86/x64, Mac OS, Windows 7, 10 Qt Framework Qt 4.7.4 & up, Qt 5.02 & up Qt6 support Compilers gcc 4.11-7.2.0, Visual Studio 2008-2017, clang, icc, mingW Python wrappers for some API