

Tabular data in web apps

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Tabular data in web apps

Grid options

- Framework grids

TWebStringGrid, TWebTableControl, TWebDBGrid

- FNC grid

TMS FNC DataGrid

- MIT AG Grid wrapper

TWebDataGrid, TWebDBDataGrid



Tabular data in web apps

Framework grids: TWebStringGrid, TWebTableControl, TWebDBGrid, TWebDBTableControl

- VCL TStringGrid, TDBGrid inspired
- Highly compatible class interface
- Easy conversion of VCL apps, low learning curve
- TWebTableControl, TWebDBTableControl is wrapper for HTML
<TABLE><TR><TD></TD></TR>/<TABLE>
- TWebTableControl offers paging
- Always consists of HTML element hierarchy and thus CSS style-able

Demo : TWebStringGrid, TWebDBGrid, TWebTableControl



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FNC Grid: TTMSFNCDatagrid



















- 100% feature, interface code compatible FNC grid solution
- Powerful feature set
- Handles large amounts of data, both DB-aware and not DB-aware
- Rendered on a HTML CANVAS element, no direct CSS control
- FNC built-in extensive appearance & theme control
- Master/detail, grouping, embedded grids, ...

Demo : TMSFNCDataGrid

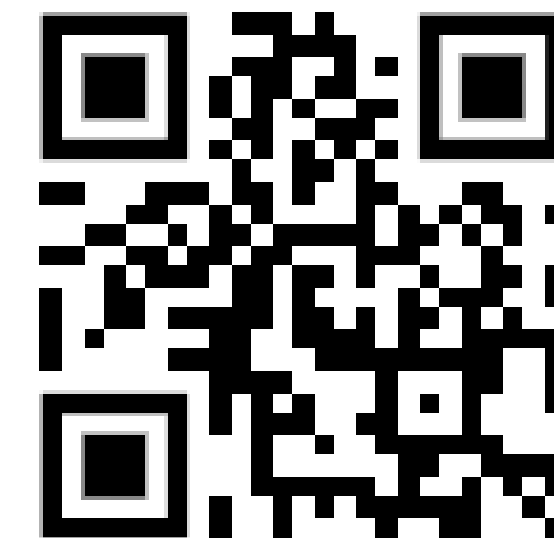


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AG Grid

Ticker	Timeline	Instrument	P&L	Total Value
 US10Y U.S. Treasury 10-Year Bond		Bond	↑342.55 492.62	↑34,255.32 49,261.83
 CAD30Y Canada 30-Year Government Bond		Bond	↓39.98 167.9	↓3,838.04 16,118.69
 MUB iShares National Muni Bond ETF		ETF	↓0.79 25.88	↓90.58 2,976.19
 BTC-USD Bitcoin		Crypto	↓0.02 0.16	↓491.87 4,700.17
 T AT&T Inc.		Stock	223.57	4,471.49
 FRN2027 France Government Bond 2027		Bond	↑84.59 140.79	↑8,628.64 14,360.36
 ADI Analog Devices, Inc.		Stock	↑4.68 6.9	↑748.61 1,103.66
 AIG American International Group		Stock	↓1.22 38.89	↓63.39 2,022.15
 DAL Delta Air Lines, Inc.		Stock	↓0.46 78.54	↓48.6 6,888.85

Rows: 134 Total Rows: 134

**90%**

Of the Fortune 500 use AG Grid

5M+

Weekly NPM downloads

13k+

GitHub Stars

40K+

Commits



Tabular data in web apps

AG Grid wrapper

- MIT AG Grid wrapper TWebDataGrid, TWebDBDataGrid
- Pascal classes wrapping AG Grid JavaScript library
- Web UI: built from hierarchy of HTML elements
- Strong feature set built upon years of expertise, used in production by companies world-wide
- Non DB-aware version and DB-aware Pascal wrapper class
- CSS style-able & themes provided
- Viewing, sorting, filtering, paging, editing, JSON I/O, CSV I/O ...

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TWebDataGrid vs TWebDBDataGrid

- TWebDBDataGrid descends from TWebDataGrid
- TWebDBDataGrid binds to dataset via TWebDataSource
- Codeless databinding via TDataSet interface
- TWebDataGrid still provides binding to back-end (custom, XData, StellarDS.io) with DataAdapter component

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TWebDataGrid architecture

- ColumnDefs collection
 - CellDataType (cdtText, cdtBoolean, cdtDate, cdtNumber, cdtObject, ...)
 - Editable
 - EditModeType (cetDefault, cetText, cetComboBox, cetCheckBox, cetMemo, cetNumber, ...)
 - Resizable
 - Filter, SearchFilter
 - ViewModeType (crtDefault, crtText, crtURL, crtEmail, crtImage, ...)
 - ...
- Databinding possible via TDGCustomDataAdapter, TDBStellarRestDataAdapter, TDBXDataRestDataAdapter

Demo : TWebDataGrid basic setup



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TWebDBDataGrid architecture

- DataSource property
- Field property in ColumnDefs collection
- Codeless databinding
- Viewing, sorting, filtering, paging and editing DB-aware data
- Bind via TWebDataSource to TWebClientDataSet, TXDataDataSet, TWebStellarDataStoreClientDataSet

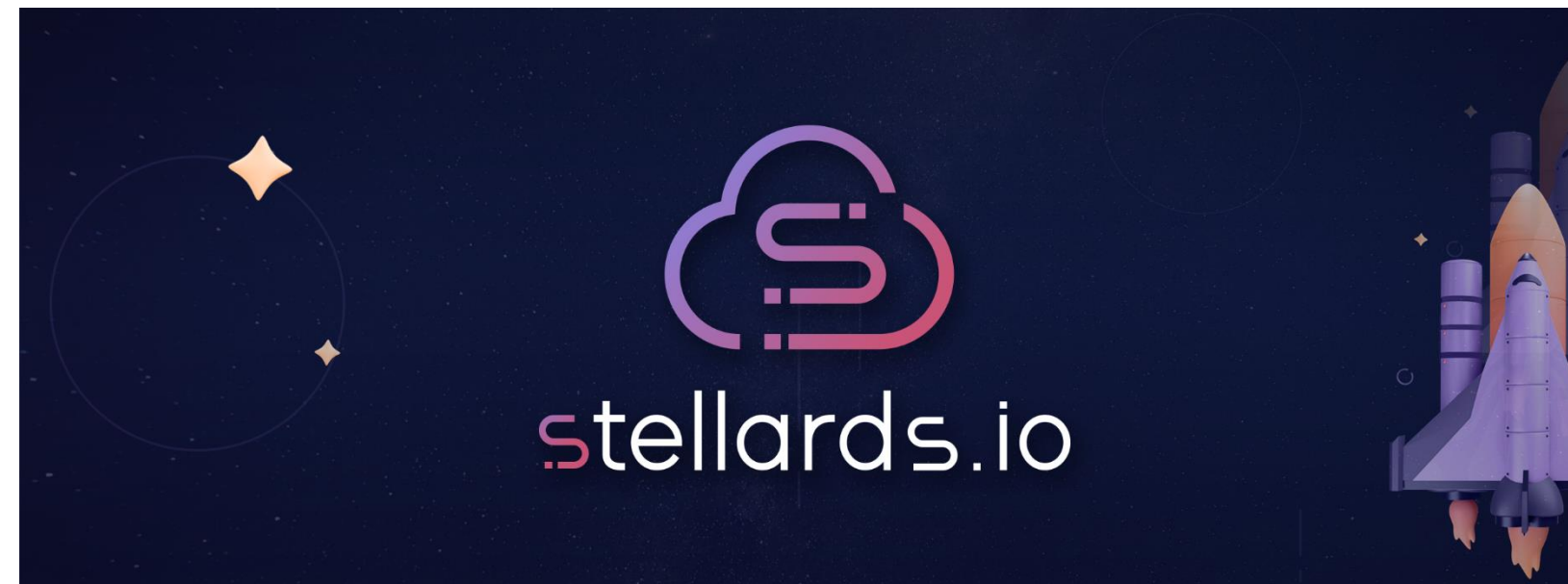
Demo : TWebDBDataGrid DB databinding



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TWebDBDataGrid binding to TWebStellarDataStoreClientDataSet

- Design-time configuration of StellarDS.io
- Automatic databinding
- Codeless CRUD on StellarDS.io data in the back-end



Demo : StellarDS.io databinding



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Conclusion

- TWebStringGrid, TWebDBGrid

Heavily VCL inspired, low-learning curve, business logic reuse

- TTMSFNCDatagrid

Powerful, feature-rich, business logic reuse

- TWebDataGrid, TWebDBDataGrid

Web-native powerful & feature-rich

Q&A



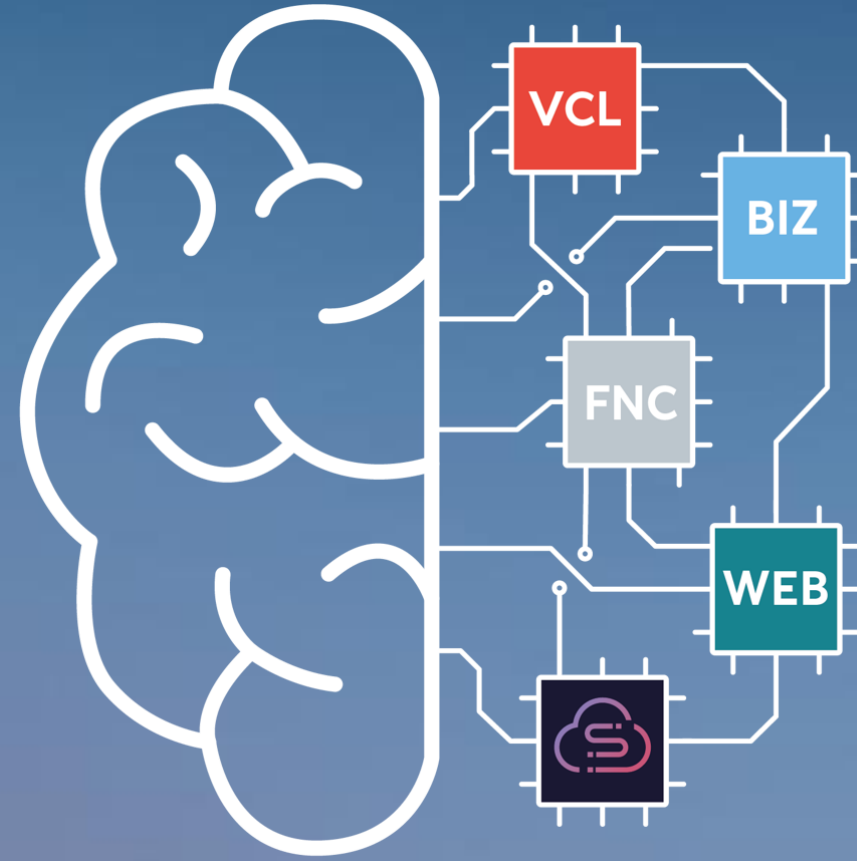
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- TMS WEB Core : Delphi powered front-end
- TMS FNC products : Delphi powered controls for VCL, FMX and WEB
- TMS BIZ : Delphi powered TMS WEB Core backend

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