Progress®

Modern Desktop with Telerik UI for WinForms

Hristo Merdjanov

Software Engineering Manager

3 June 2025

Full-featured, themeable, developer friendly UI components for modern desktop apps

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Agenda

- Standard WinForms
- Telerik UI for WinForms
- Document Processing
- Q & A Session

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Standard WinForms

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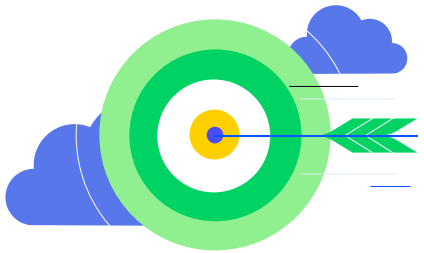
Standard WinForms



How is it built?

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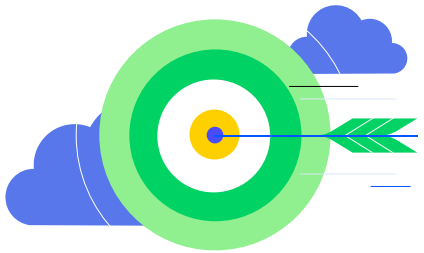
Standard WinForms



How is it built?

Why is it so good?

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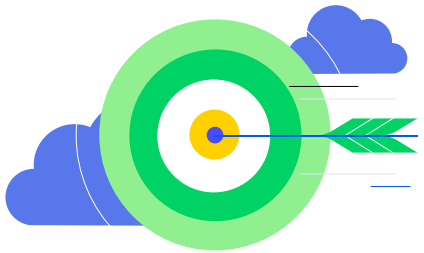
Standard WinForms



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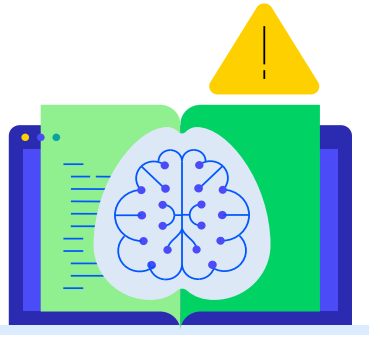

Pitfalls

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Standard WinForms

How is it built?

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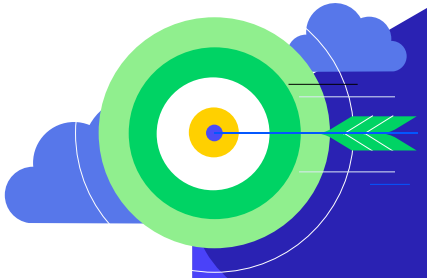
Standard WinForms

How is it built?

- Win32
- Control Wrappers
- Message Loop
- Rendering
- Event Model
- Interop



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Standard WinForms

Why is it so good?

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Standard WinForms

Why is it so good?

- Fast to Learn and Use
- Productive Visual Designer
- Deeply Integrated to Windows
- Mature and Stable

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Standard WinForms

Pitfalls

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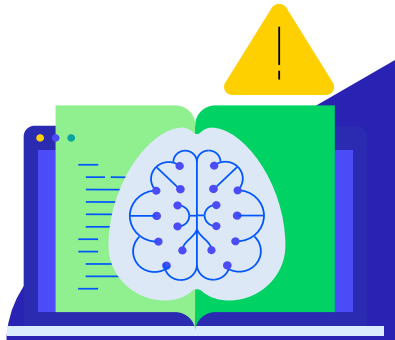
Standard WinForms

Pitfalls

- Control Set and Features
- UI/UX
- Customizations
- Scaling
- .NET Framework vs .NET



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Telerik UI for WinForms to the Rescue…

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…Delivering More Than Expected Since 2006

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Microsoft
Foundation

- Control Set & Features
- UI/UX
- Customizations
- Scaling
- Visual Designer
- Accessiblity
- Community Support

Telerik
Added Value

- → Extensive Component Library
- → Themes
- → Telerik Presentation Framework
- → High DPI & Vector Graphics
- → Enhanced Editors and Wizards
- → UI Automation Everywhere
- → Technical Support

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Control Set → Extensive Component Library

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Extensive Component Library

Data Management

GridView
PivotGrid
VirtualGrid
ListView
TreeView
FilterView
PropertyGrid

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Extensive Component Library

Data Management

- GridView
- PivotGrid
- VirtualGrid
- ListView
- TreeView
- FilterView
- PropertyGrid

Data Visualization & Scheduling

- Map
- Diagram
- Chart View
- Scheduler
- GanttView
- TaskBoard
- TreeMap
- Gauges

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Forms and Interactivity

- Forms
- Docking
- Flyouts
- Task Dialog
- Virtual
- Keyboard
- Webcam
- Image Editor

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- Flyouts
- Task Dialog
- Virtual
- Keyboard
- Webcam
- Image Editor

Document Viewers

- RichText Editor
- Spreadsheet
- PDF Viewer
- Syntax Editor

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Extensive Component Library

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- Virtual
- Keyboard
- Webcam
- Image Editor

Document Viewers

- RichText Editor
- Spreadsheet
- PDF Viewer
- Syntax Editor

AI

- AI Prompt
- PDF AI
- Insights
- TBD

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Data Management

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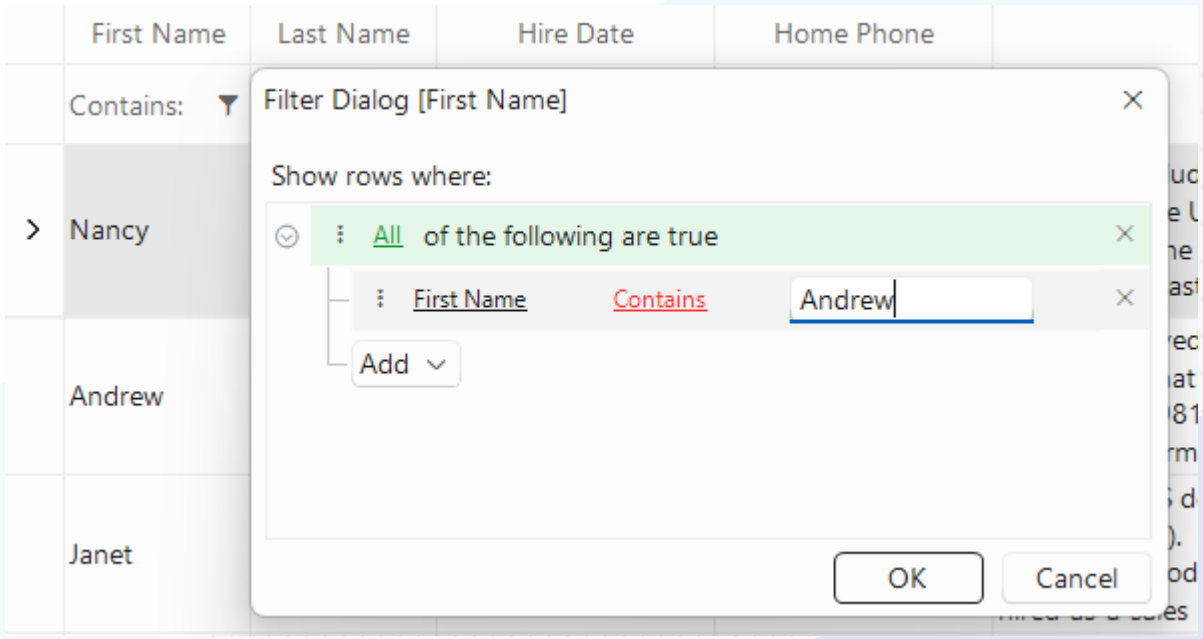
Data Management

RadGridView

- Sorting, Filtering, Grouping, Paging
- OpenEdge BypassFilter & BypassSort mode
- Hierarchical Data Display
- Summary Rows
- UI Virtualization
- Easily Customizable
- Exporting data



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Data Visualization

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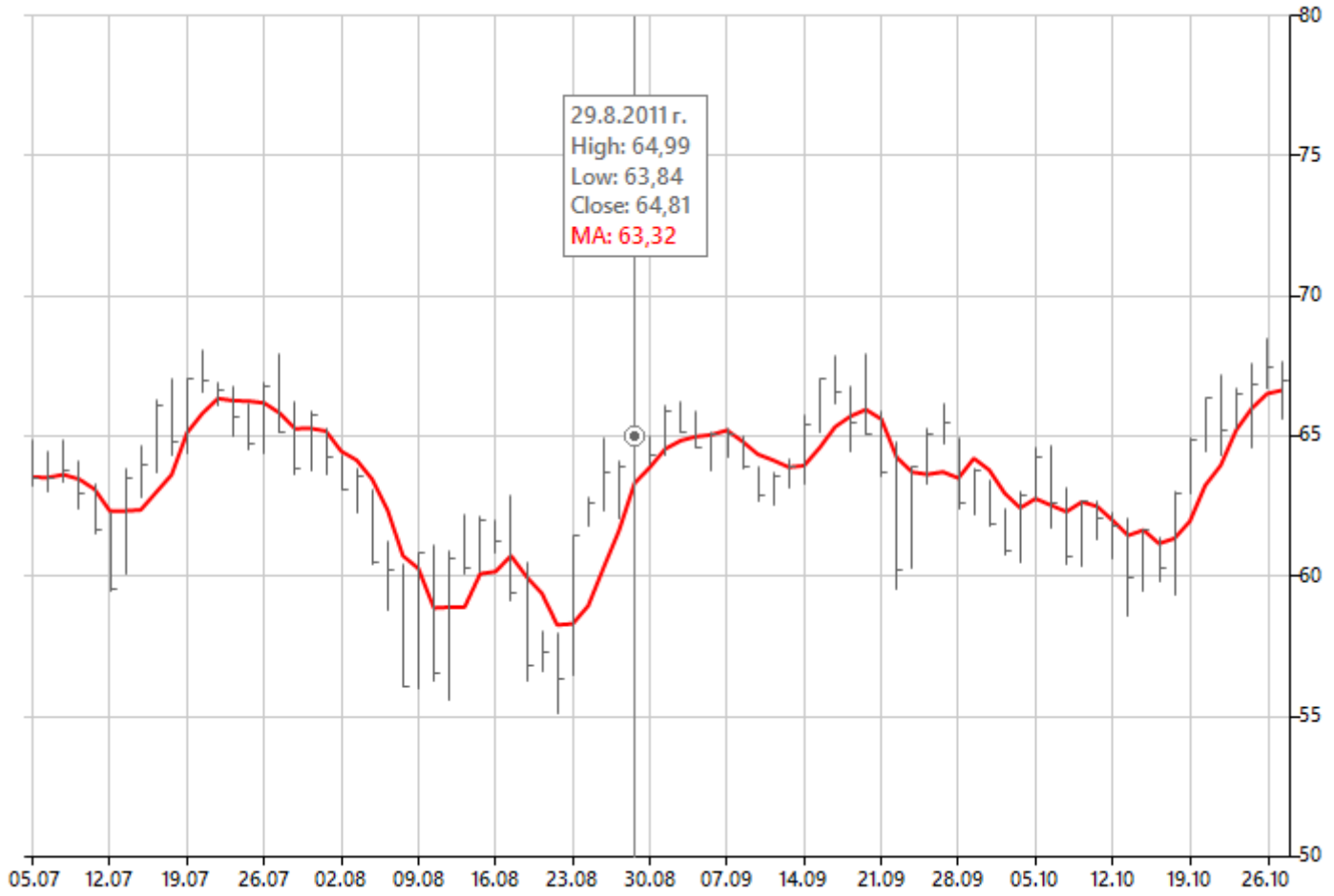
Data Visualization

RadChartView

- Cartesian Area



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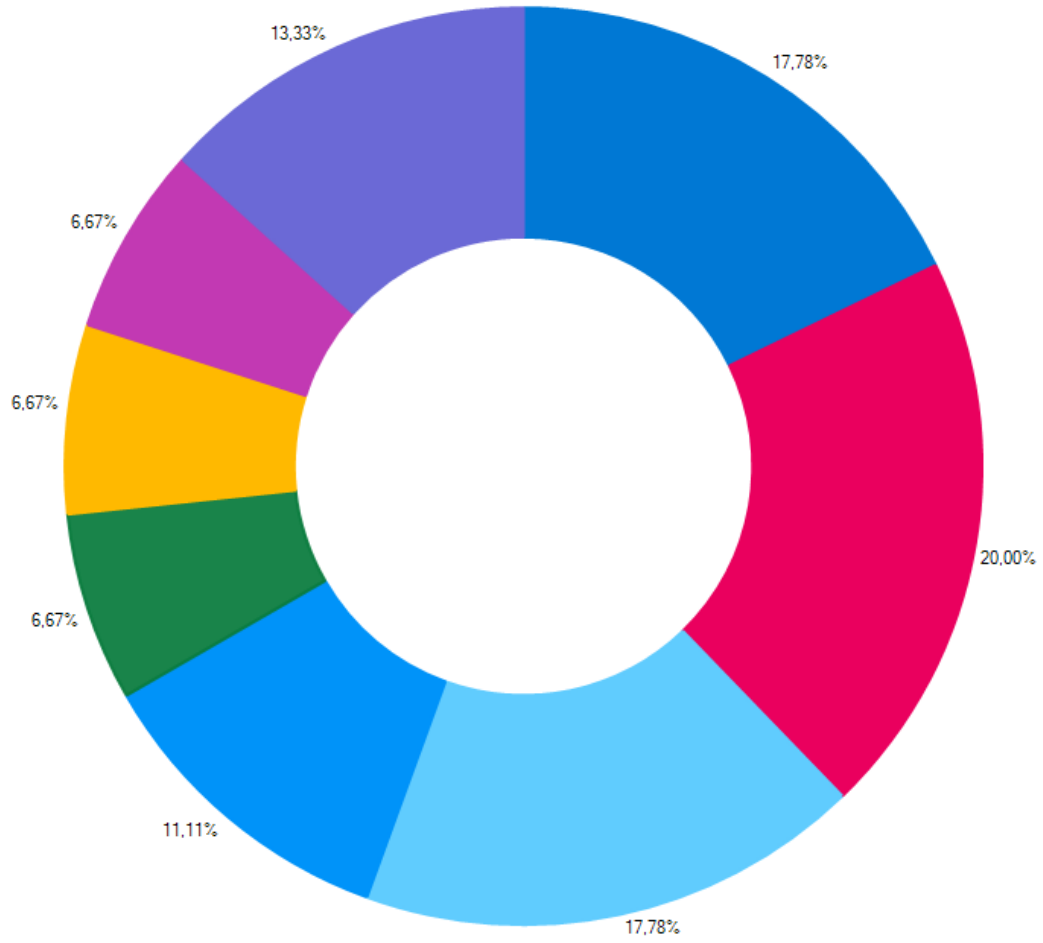
Data Visualization

RadChartView

- Cartesian Area
- Pie Area



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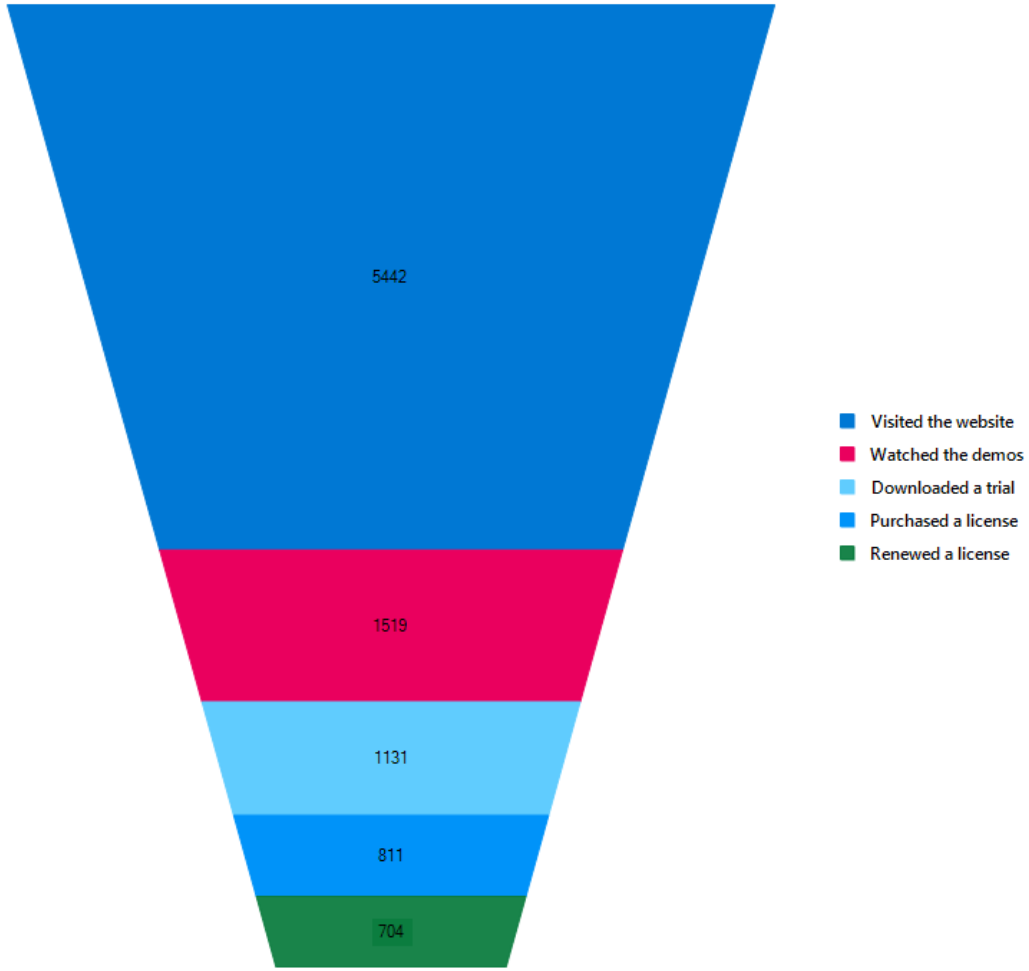
Data Visualization

RadChartView

- Cartesian Area
- Pie Area
- Funnel Area



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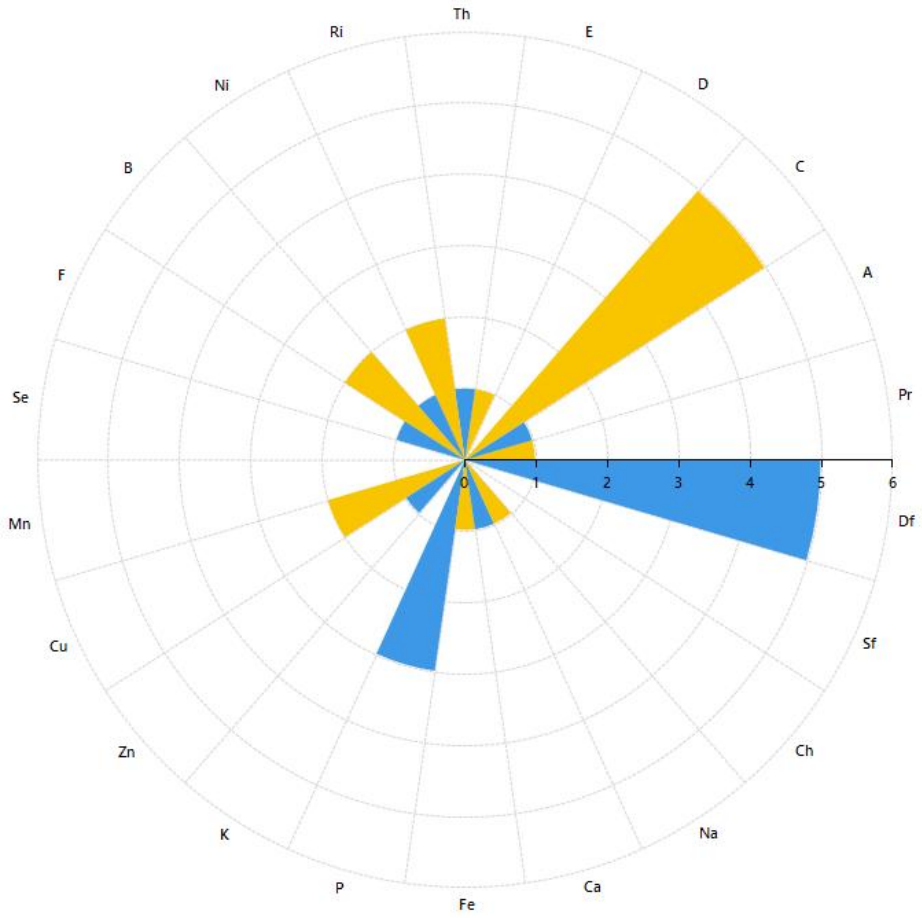
Data Visualization

RadChartView

- Cartesian Area
- Pie Area
- Funnel Area
- Polar Area



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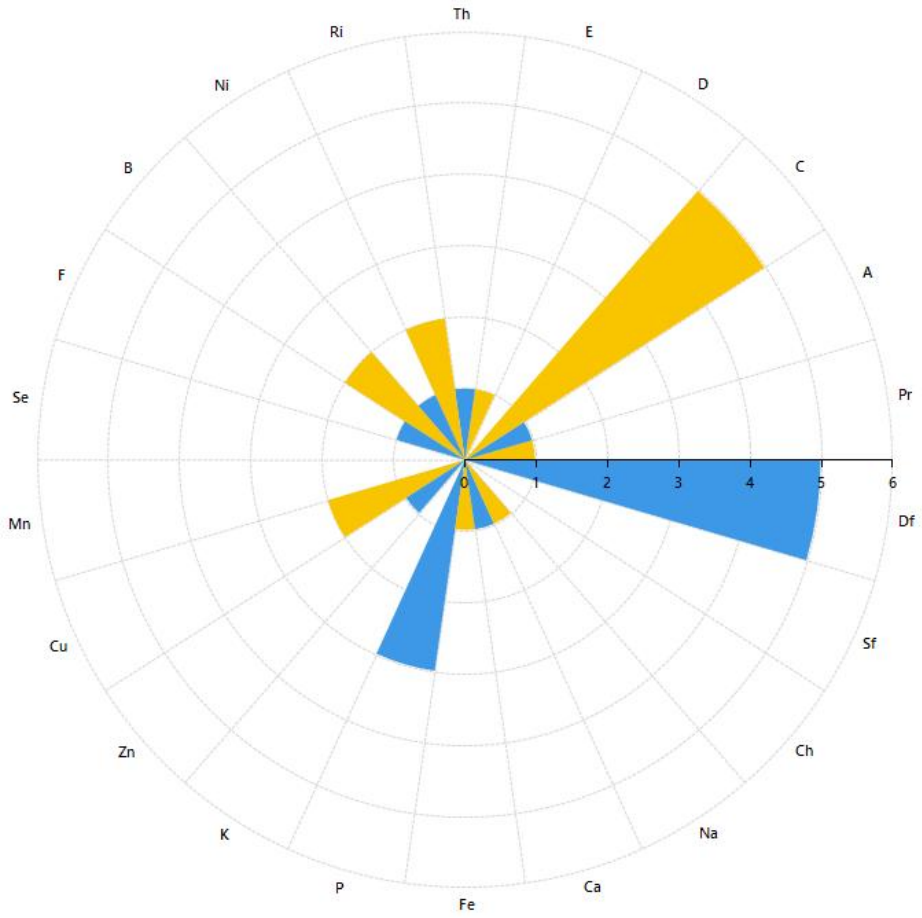
Data Visualization

RadChartView

- Cartesian Area
- Pie Area
- Funnel Area
- Polar Area
- Features: Scroll & Zoom, Drill-Down, Trackball, Smart Labels, and many more in our docs



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Scheduling

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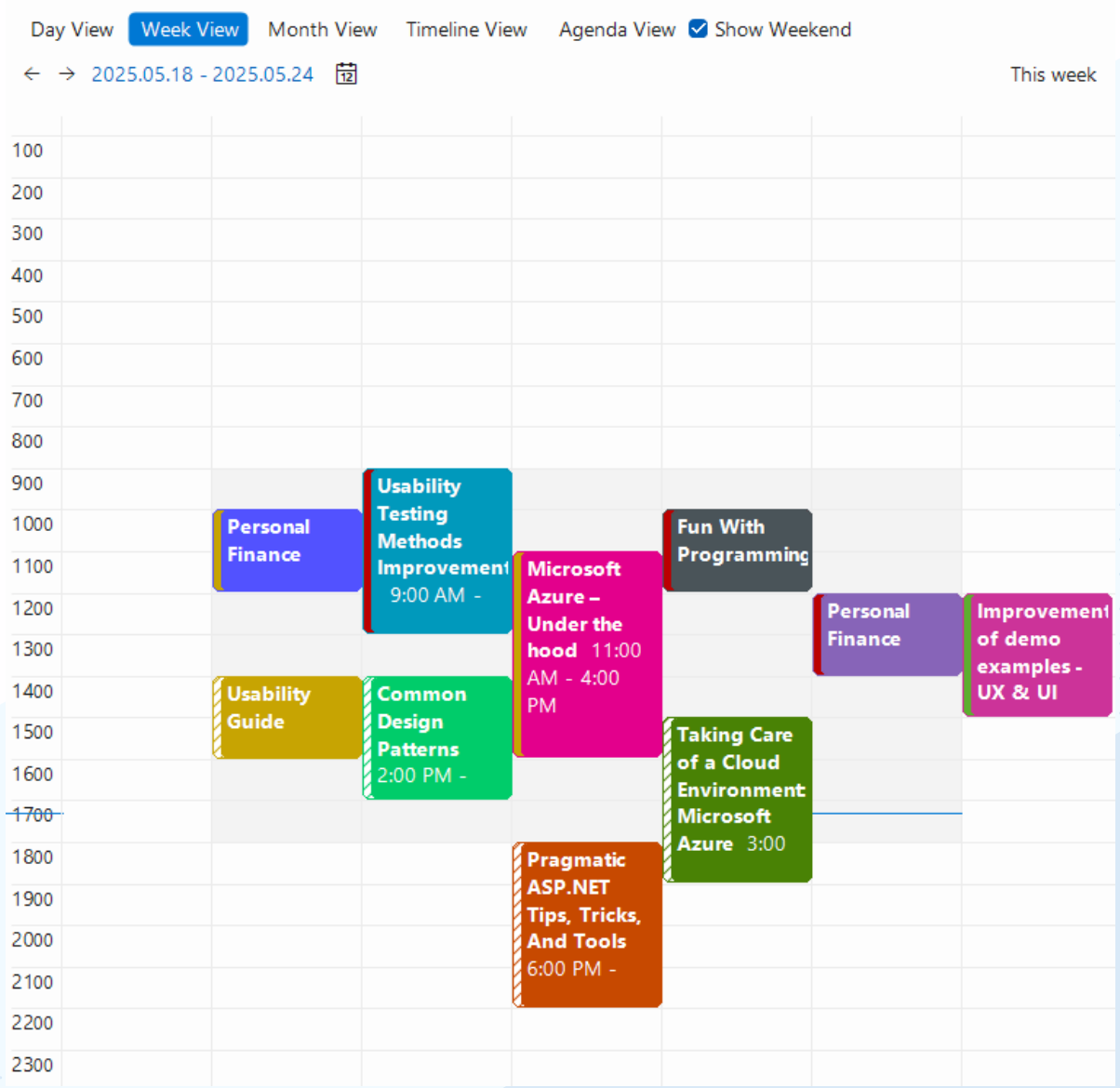
Scheduling

RadScheduler

- Appointment Management
- Variety of Data Sources
- Resources and Grouping
- Reminders and Notifications
- Time Zones and Globalization
- ICal compatible
- Easily Customizable



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Interactivity
Forms

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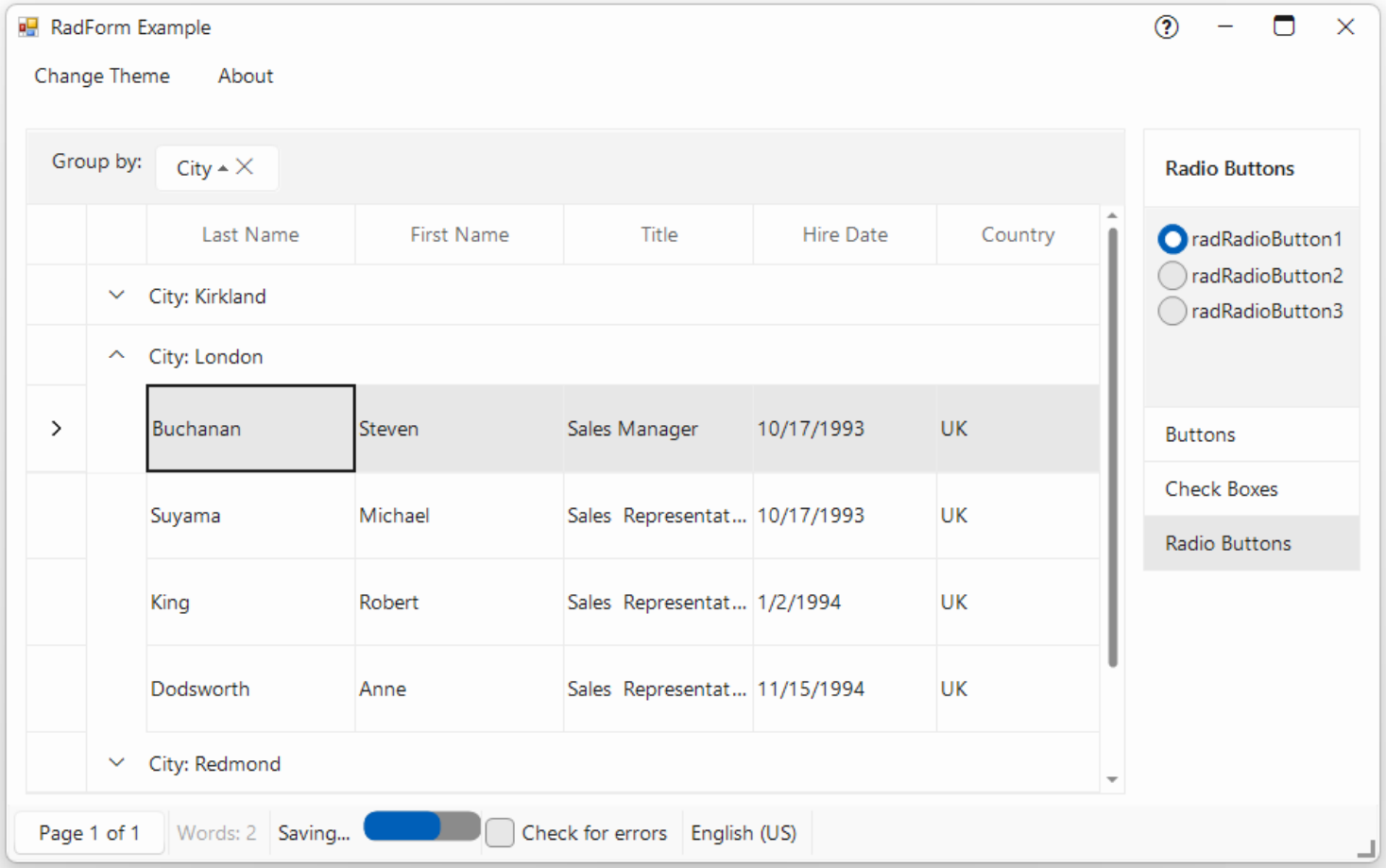
Interactivity
Forms

- Form



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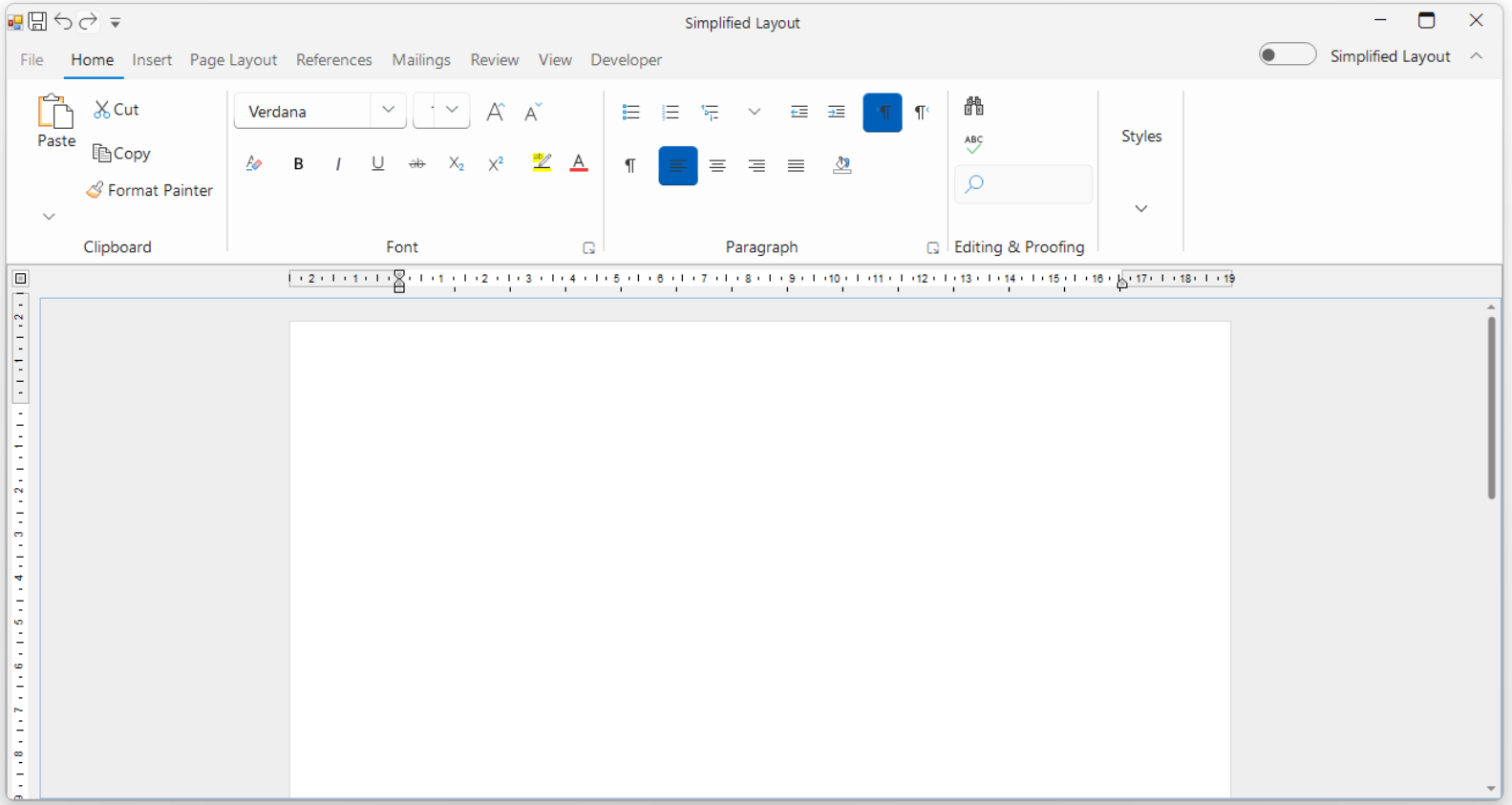
Interactivity
Forms

- Form
- Ribbon Form



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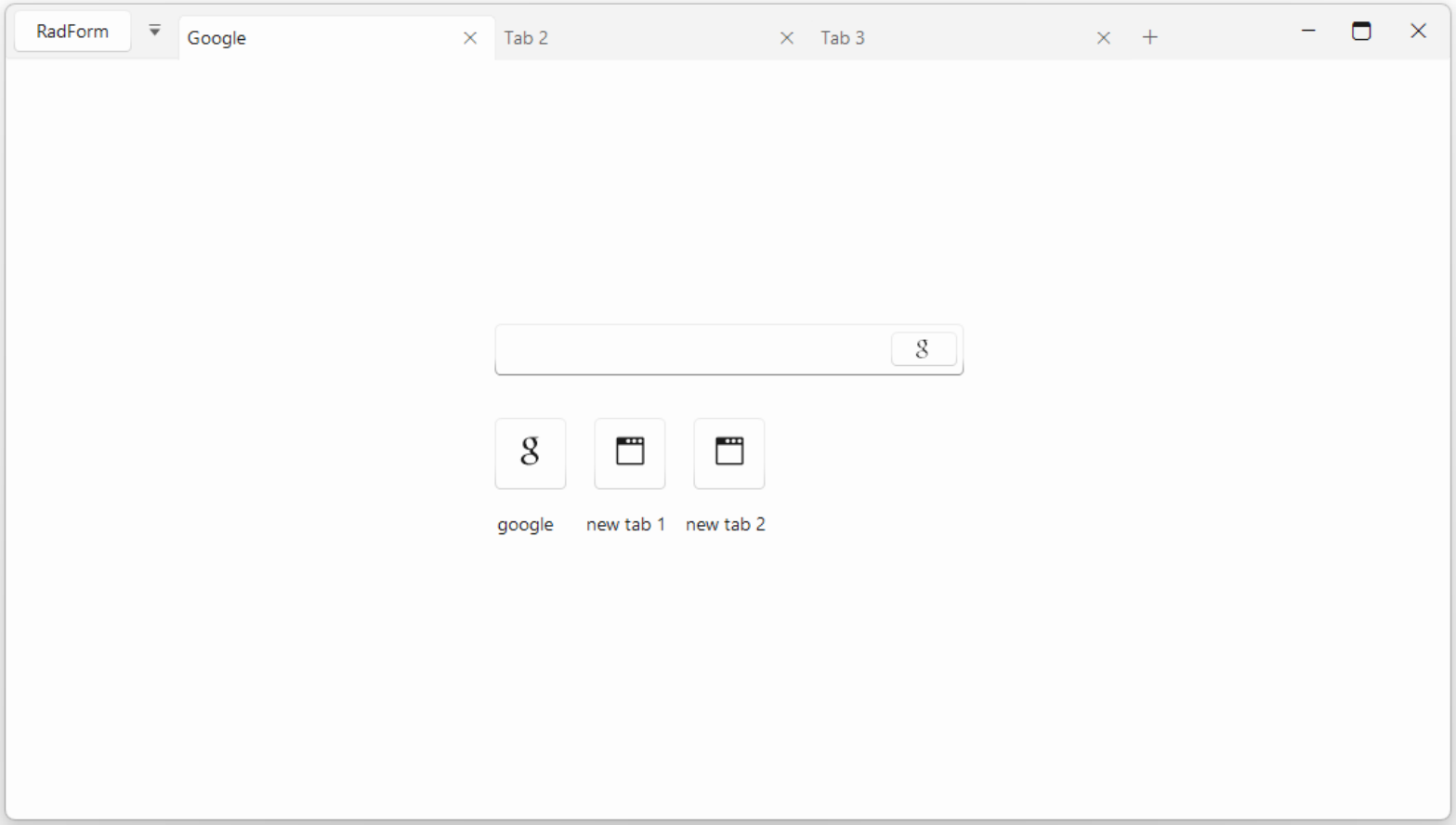
Interactivity
Forms

- Form
- Ribbon Form
- Tabbed Form



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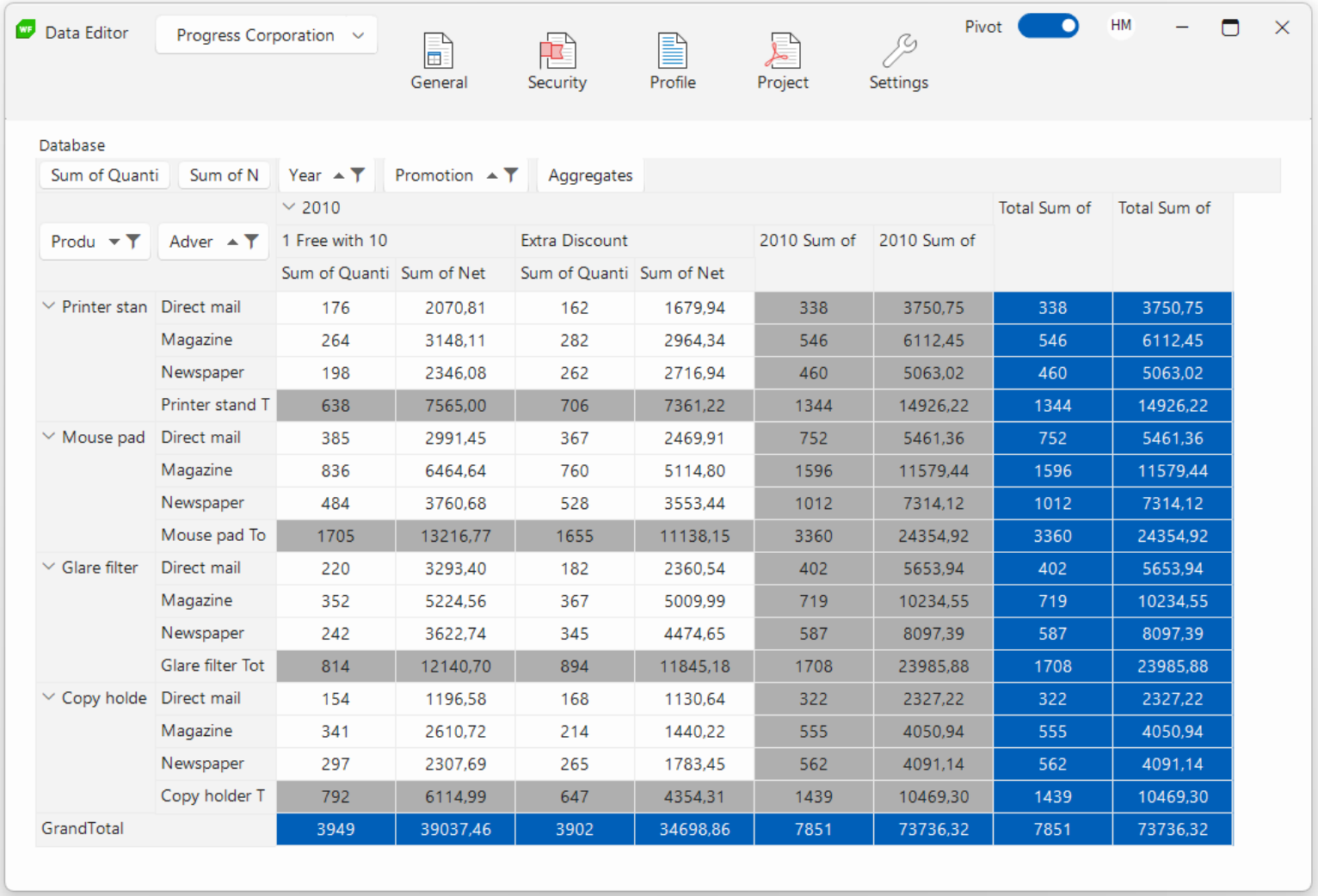
Interactivity
Forms

- Form
- Ribbon Form
- Tabbed Form
- Toolbar Form



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Interactivity

Virtual Keyboard

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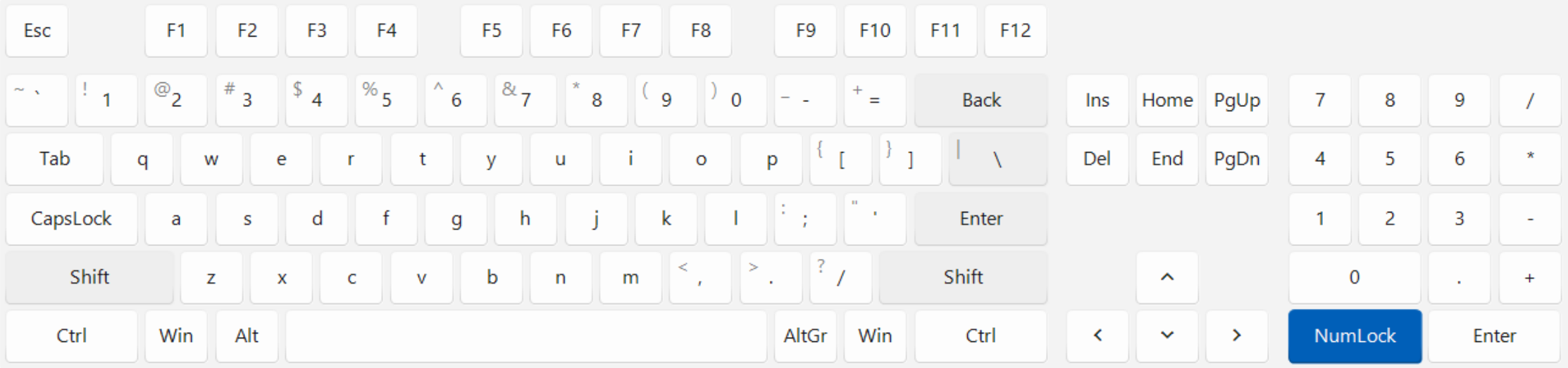
Interactivity

Virtual Keyboard

- No Need of a Physical Keyboard
- Predefined Layouts - QWERTY
- Custom Layouts: AZERTY, Dvorak
- System Synchronization



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Document Viewers

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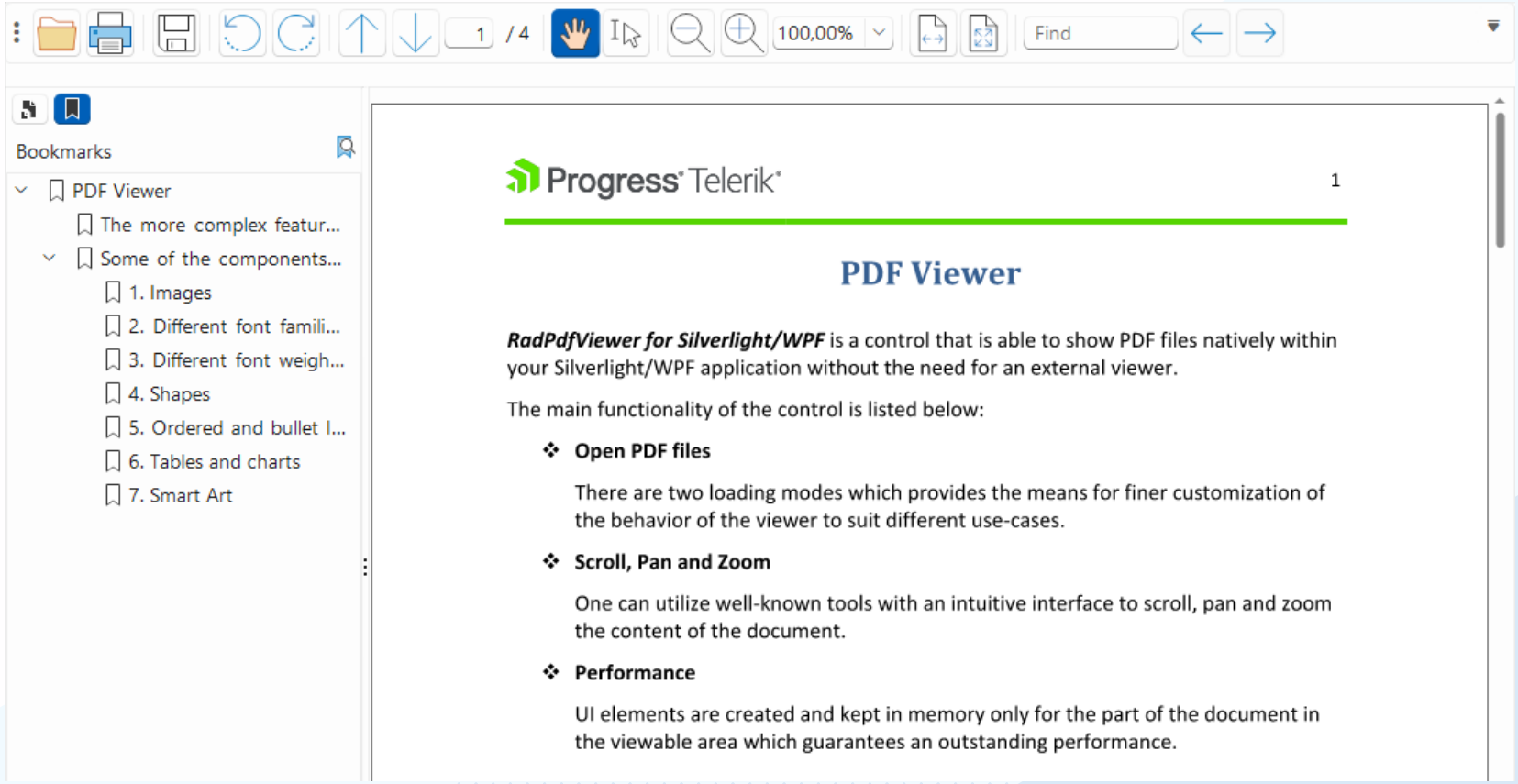
Document Viewers

- RichText Editor
- Spreadsheet
- PDF Viewer
- Syntax Editor



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UI/UX → Themes

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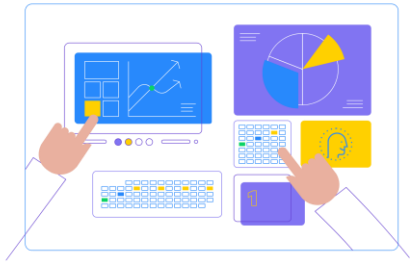
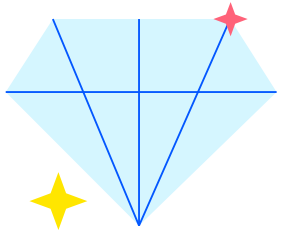
Themes



Modern



Classic

Dark

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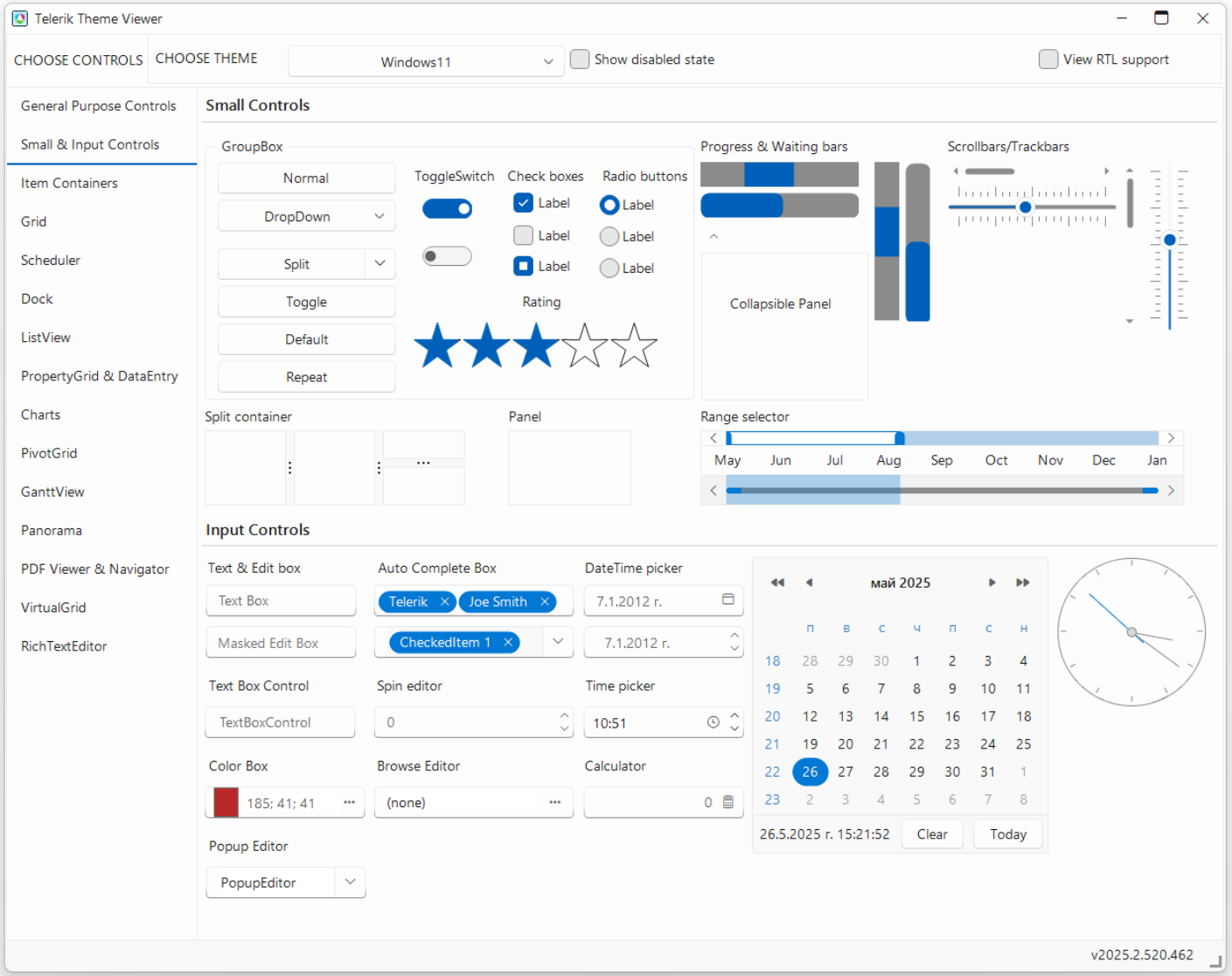
Themes

Modern

- Windows 11 →
- Material
- Fluent
- Crystal
- Visual Studio 2022
- Office 2019
- Telerik Metro



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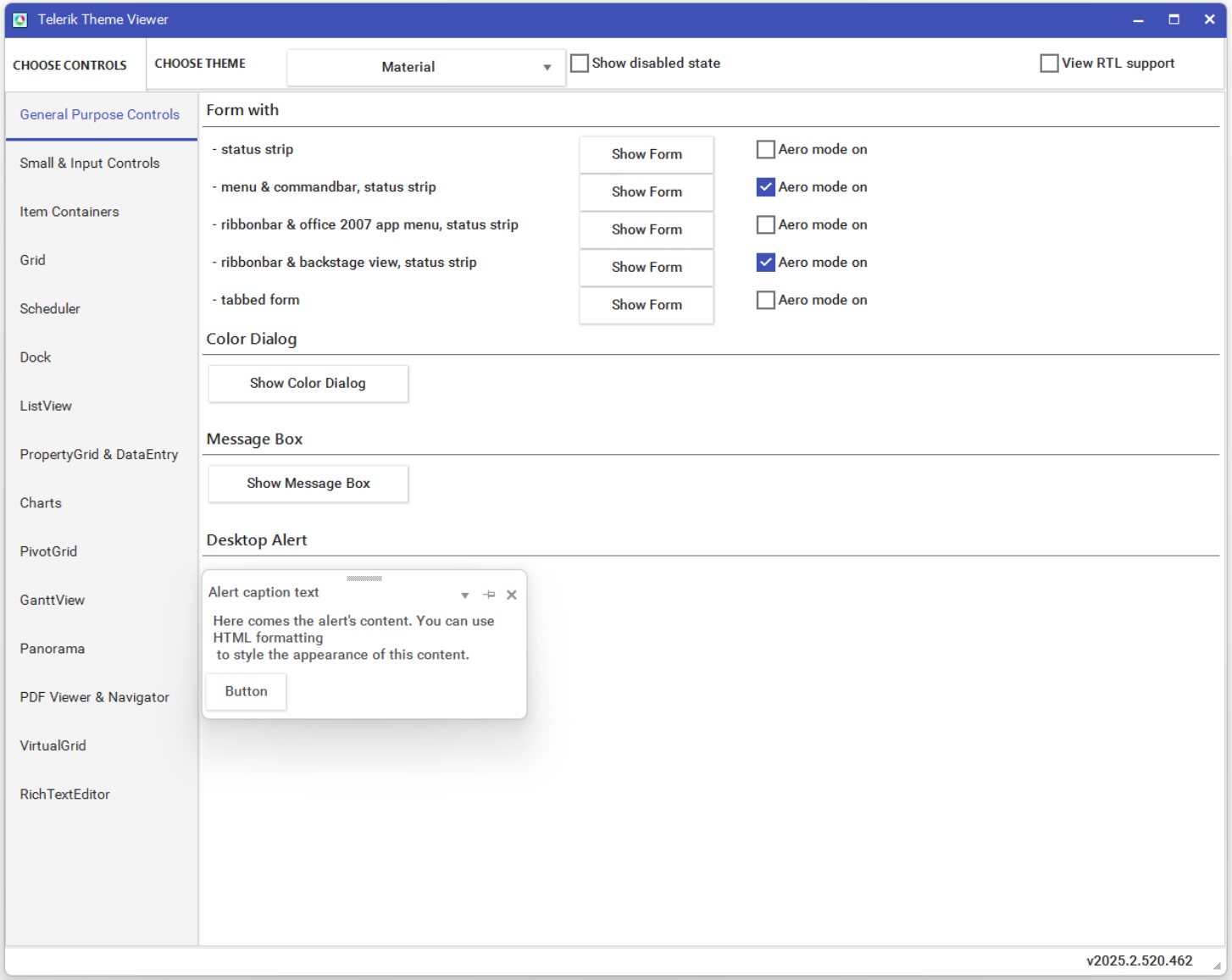

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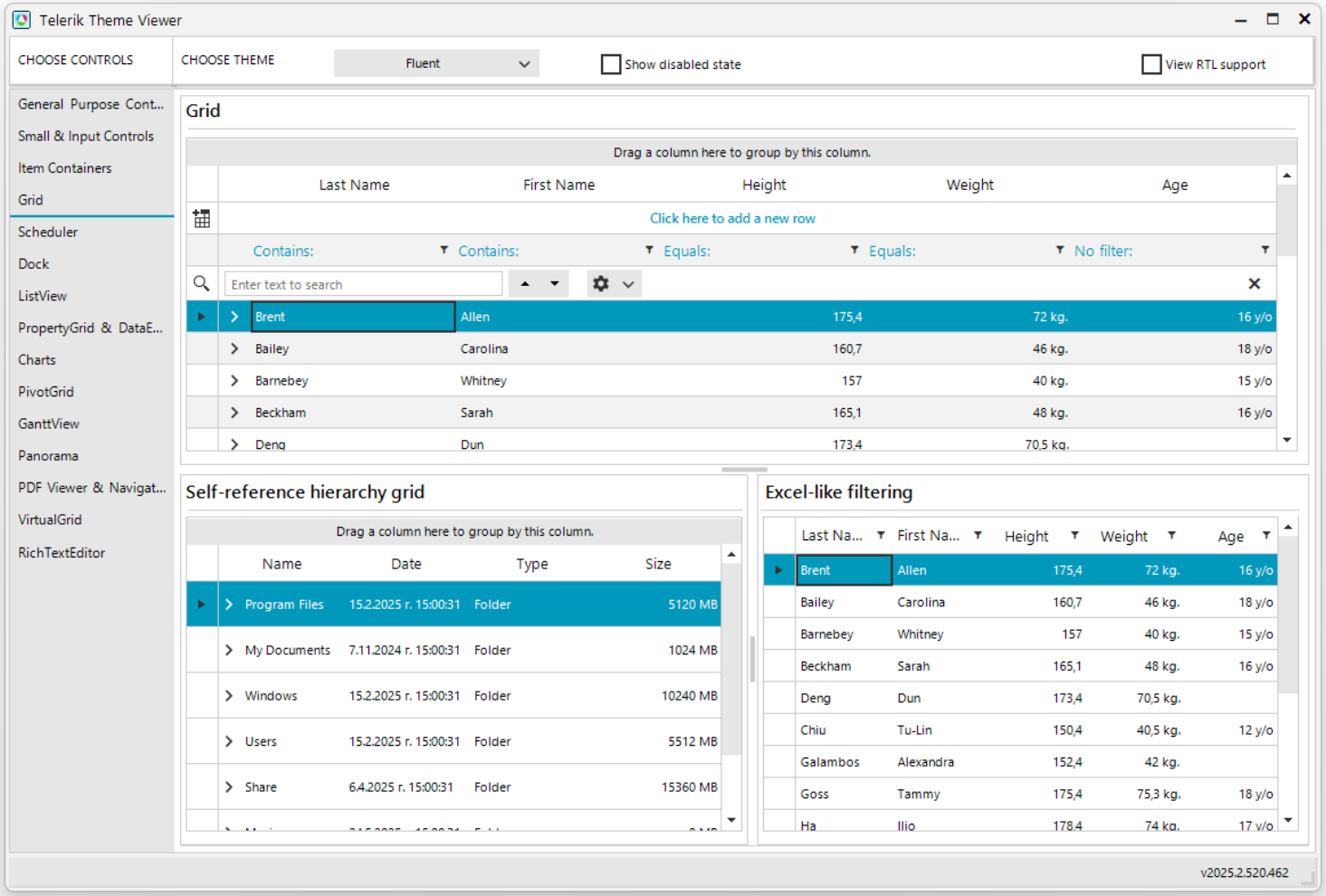

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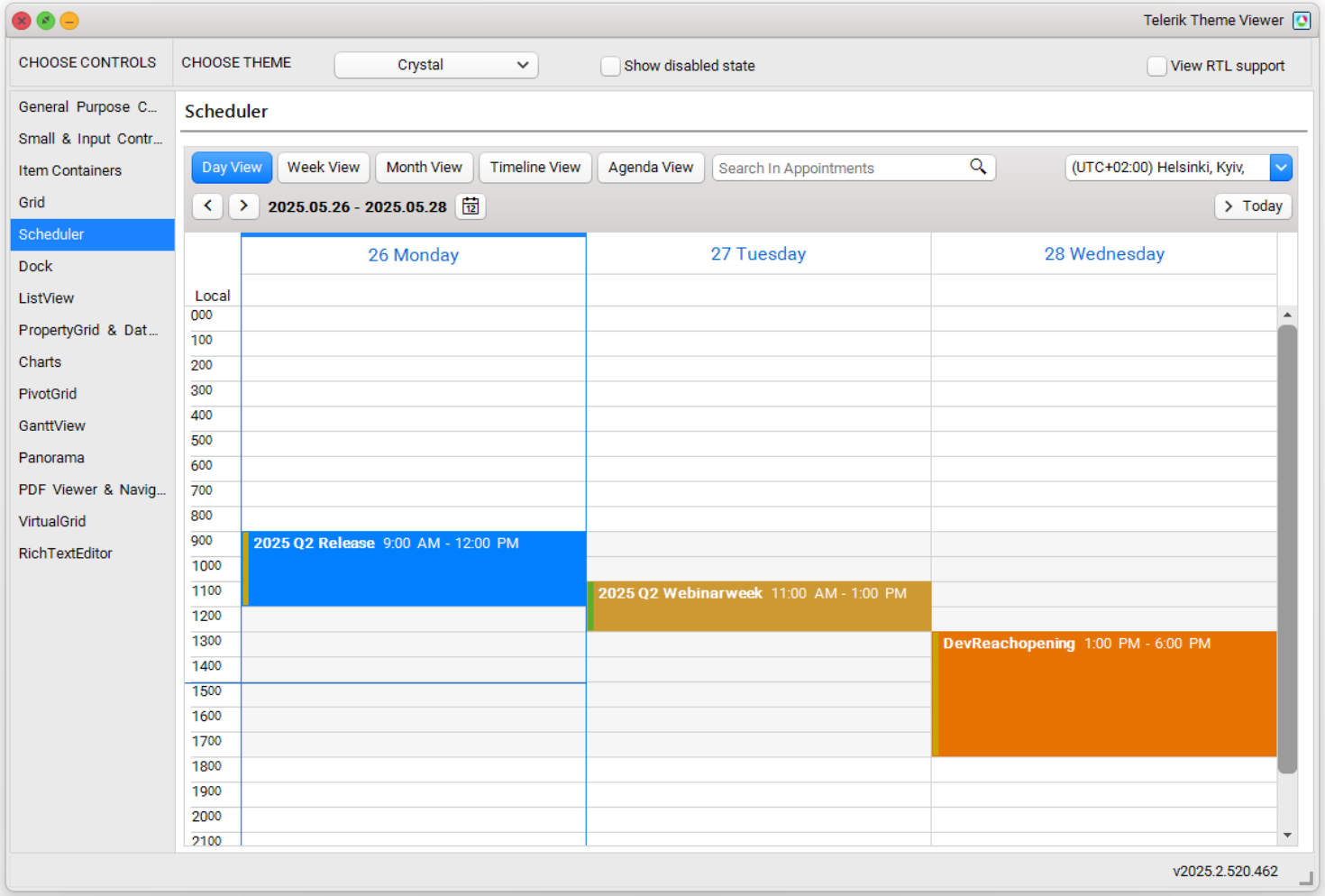

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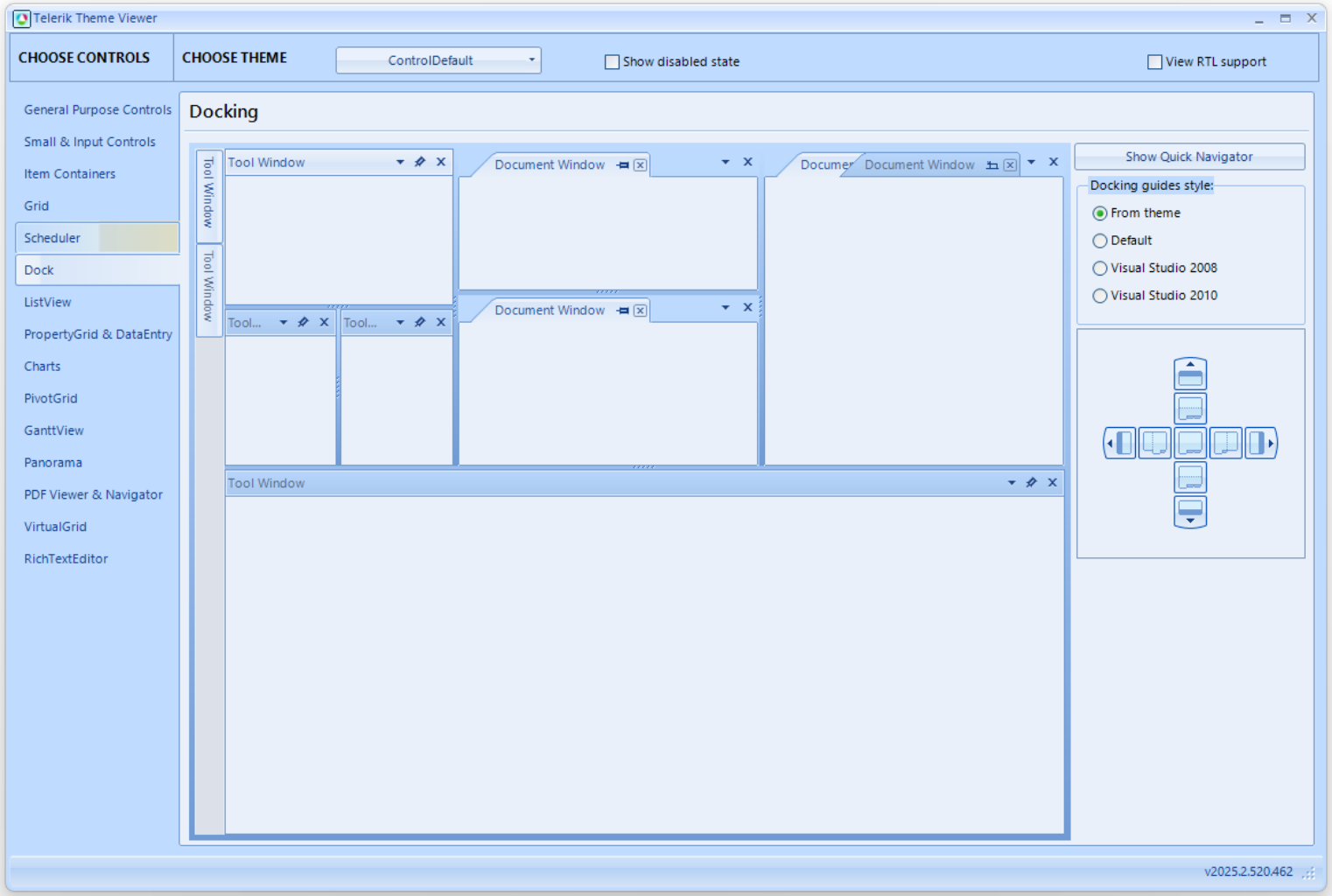
Themes

Classic

- ControlDefault →
- Desert
- Breeze
- Aqua
- Windows 7
- Windows 8
- Office 2010/2013



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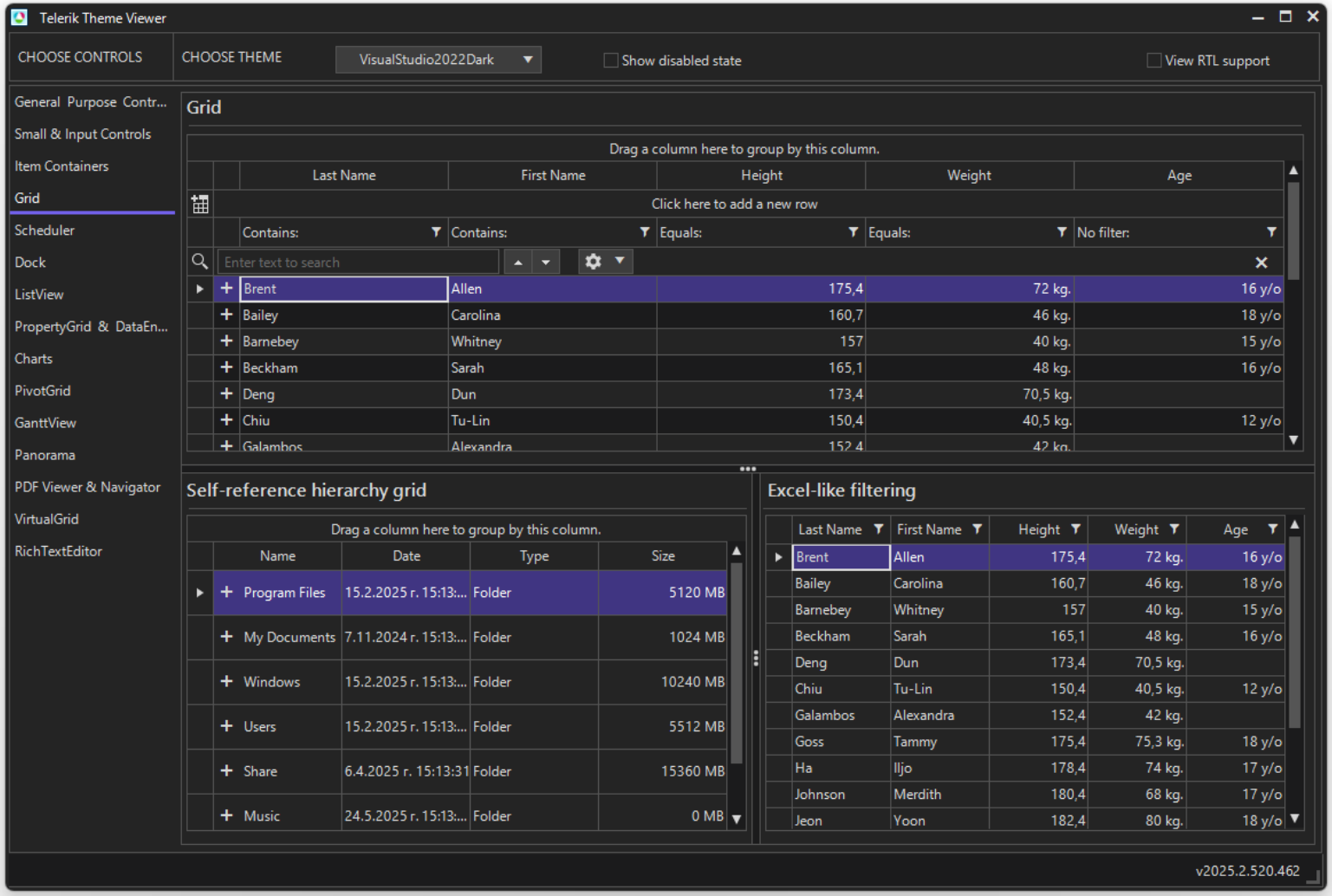
Themes

Dark

- Windows 11
- Visual Studio 2022 →
- Fluent
- Crystal
- Visual Studio 2012
- High Contrast Black



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Themes

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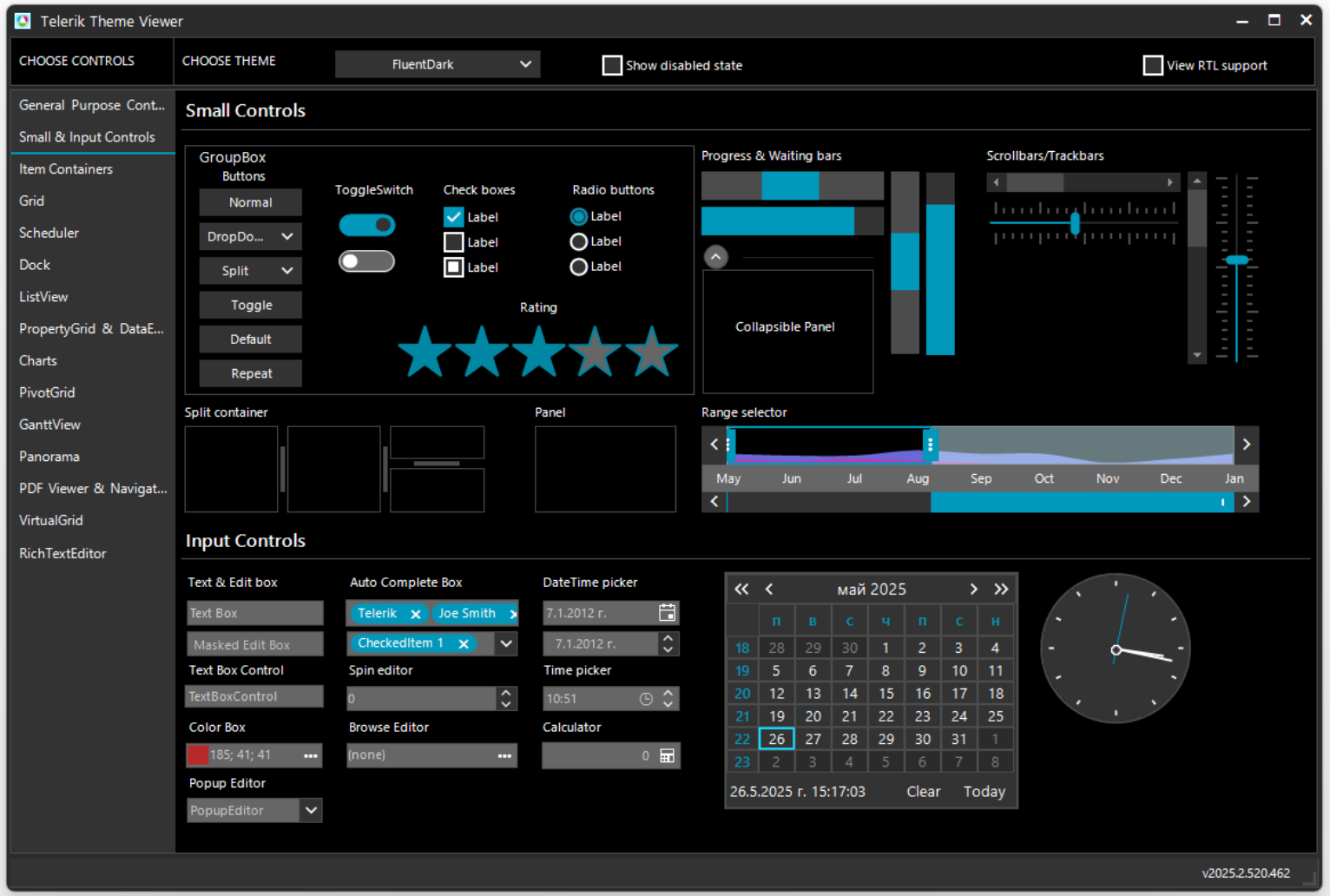

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Customizations → Telerik Presentation Framework (TPF)

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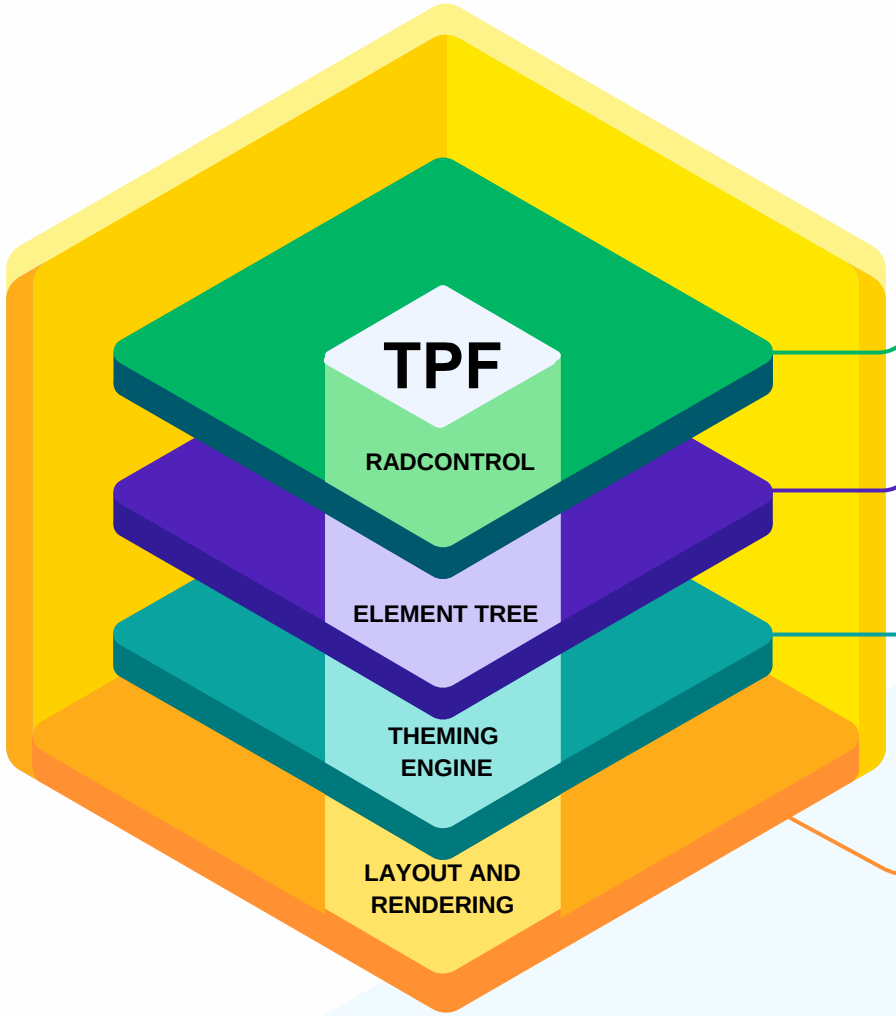
Telerik Presentation Framework (TPF)



RADCONTROL

- Inherit Control
- Process Messages
- Expose API
- Handle Input

ELEMENT TREE

- RootRadElement
- RadItem
- Event Tunnelling
- RadElement
- Primitives

THEMING ENGINE

- Precedence
- Animations
- Dependency Properties

LAYOUT AND RENDERING

- Layout
- Painting
- Text Rendering

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Scaling → High DPI & Vector Graphics

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High DPI & Vector Graphics

- In-House High DPI Engine
- Vector Images (SVG)
- Glyph-Based Fonts
- Scaled Fonts And Sizes
- No More Pixelization

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Glyph-Based Fonts
TelerikWebUI

- Glyphs Reference Sheet

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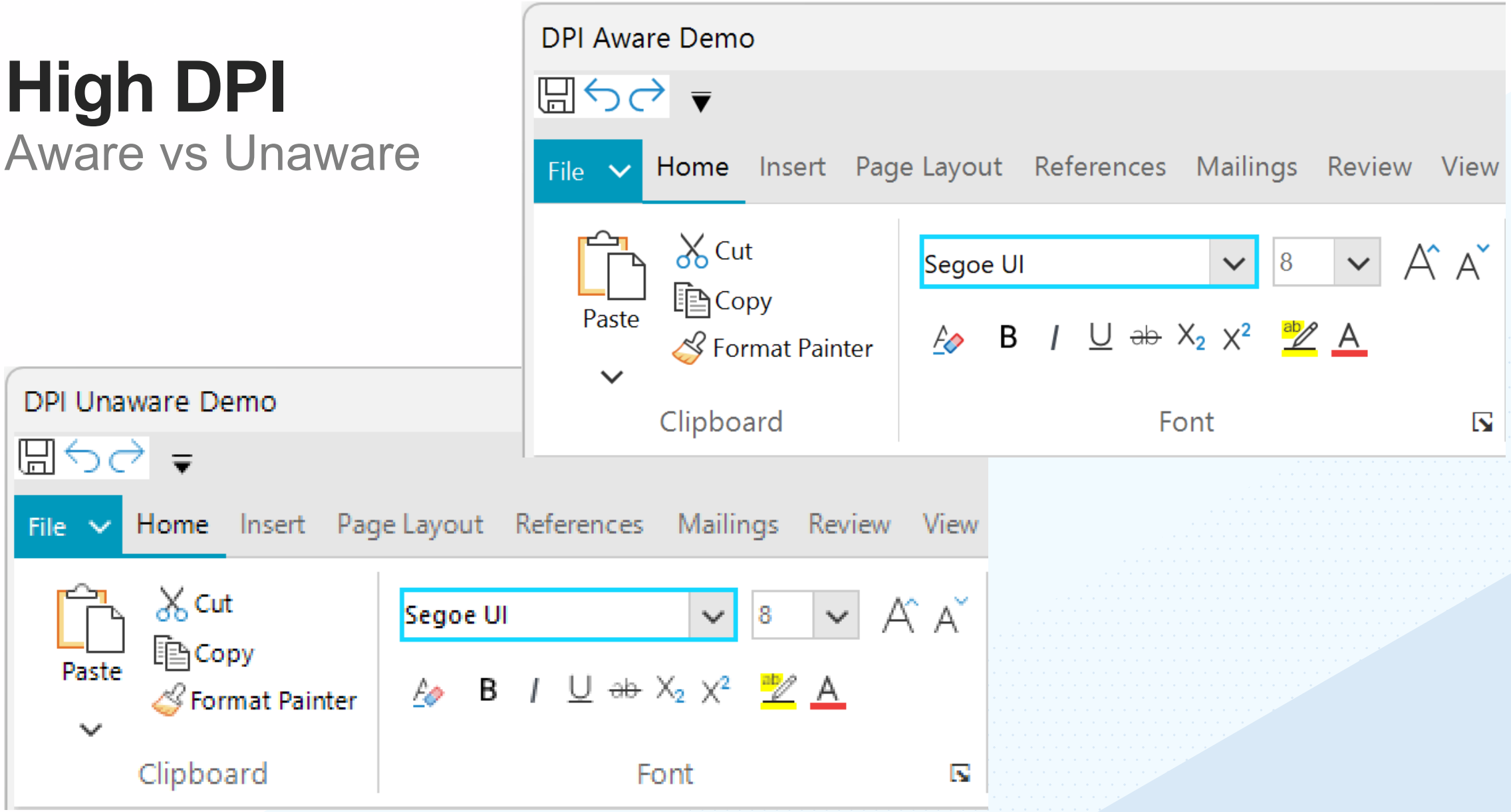
High DPI

Aware vs Unaware



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Accessibility → UI Automation

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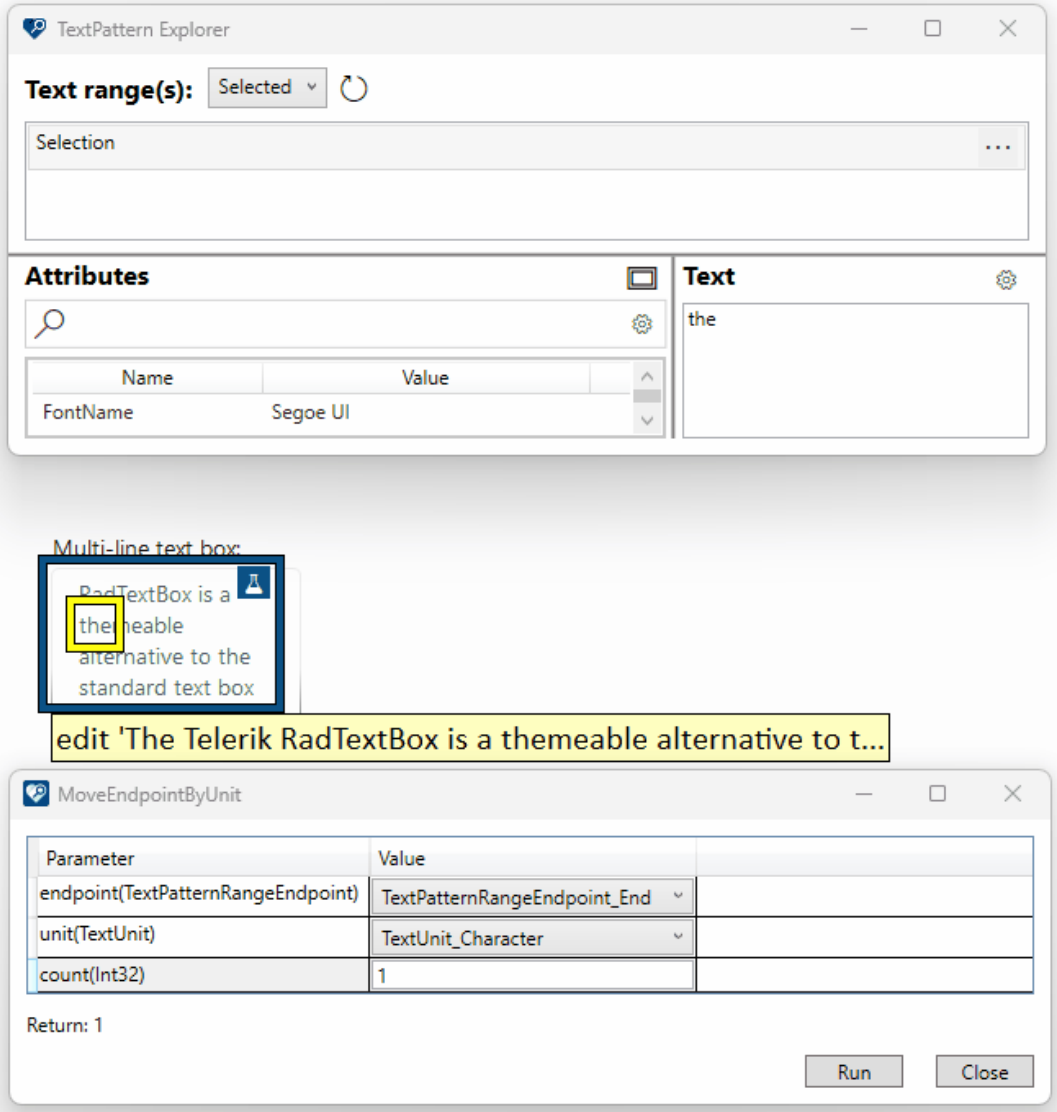
Accessibility

- Microsoft Active Accessibility (MSAA)
- UI Automation (UIA)
- Accessible Themes



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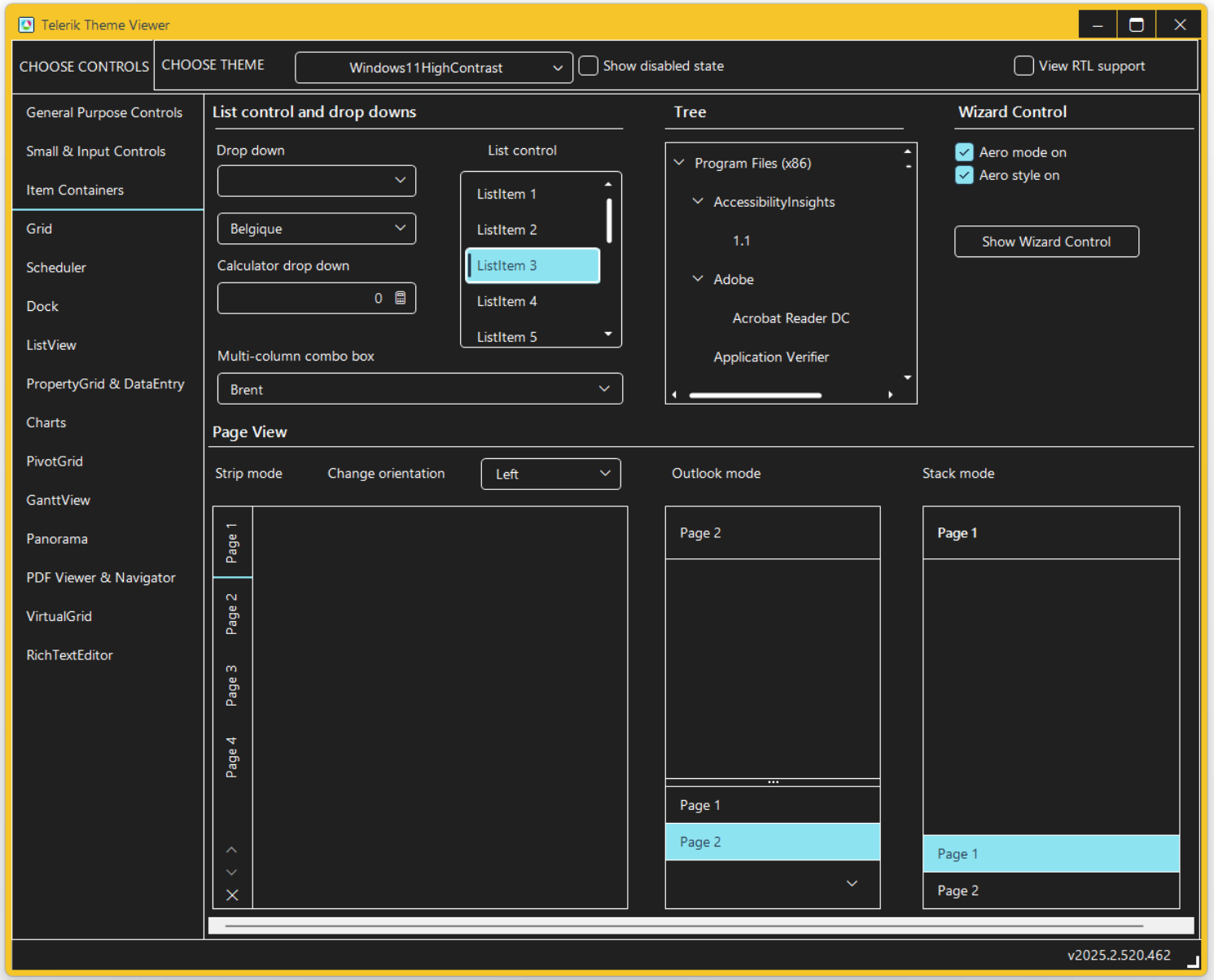
Accessibility

Windows 11
High Contrast



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Visual Designer → Enhanced Editors and Wizards

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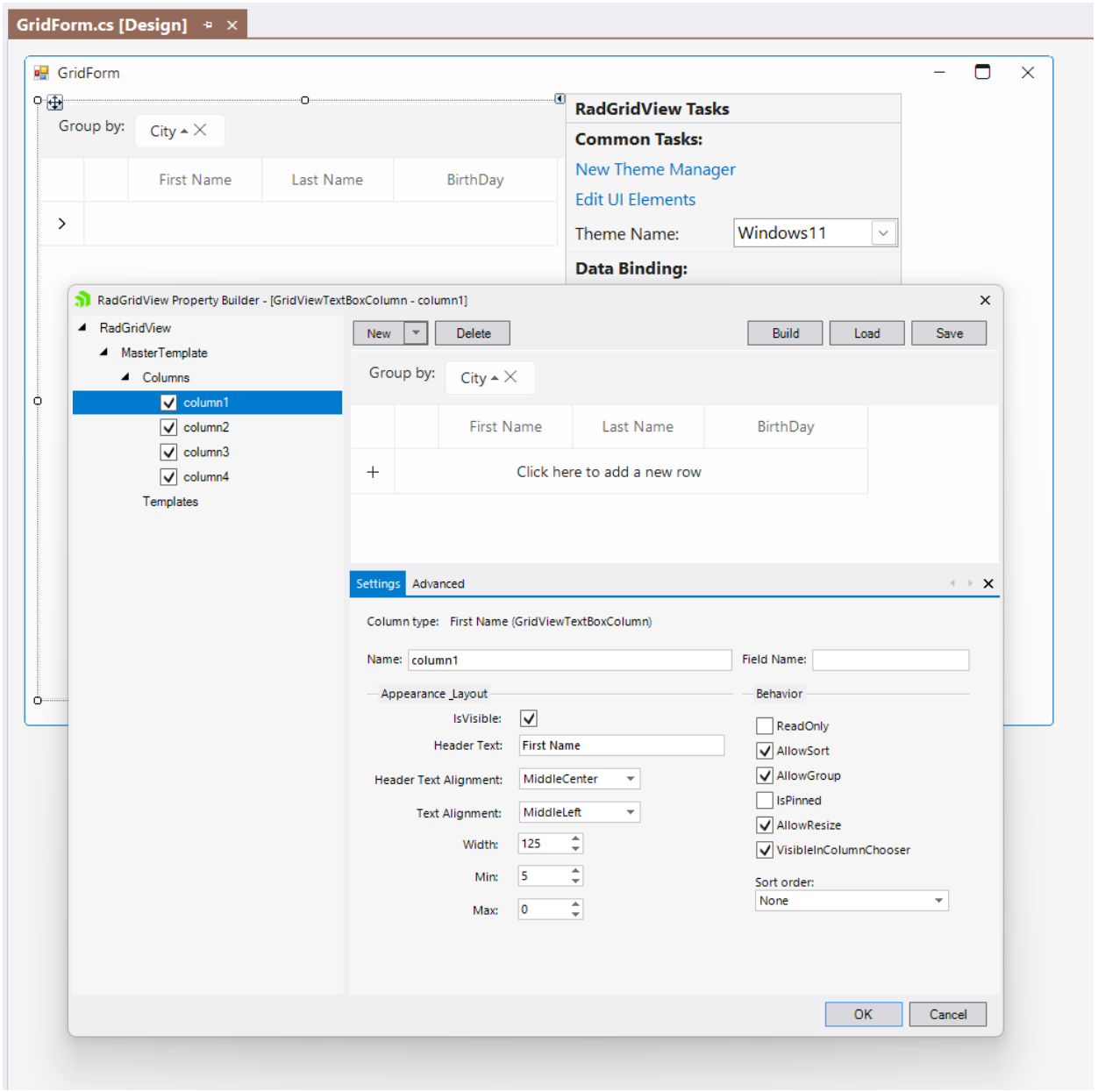
Enhanced Editors & Wizards

- Property Builders and Wizards
- Drag-and-Drop UI Building
- Code Generation
- Extended Smart Tags
- Theming



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Community Support → Technical Support

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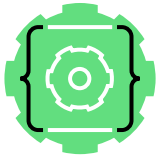
Technical Support

Proven Customer Service



- 96% customer satisfaction rate
- 55%+ first response resolution score

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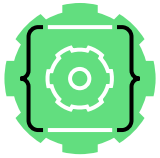
Technical Support

Proven Customer Service



- 96% customer satisfaction rate
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Large Telerik Community

- 4.6M forum members
- 285K problems solved

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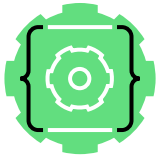
Technical Support

Proven Customer Service



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Phone and Remote Web Assistance

- Resolve complex problems
- Demonstrate in client environment

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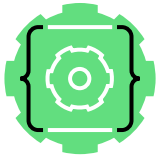
Technical Support

Proven Customer Service



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Video Onboarding

- Telerik Video Courses
- Seamless onboarding experience

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Getting Started

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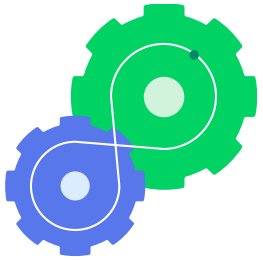
Getting Started

Get Telerik UI for WinForms

Resources

Telerik Licensing



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Get Telerik UI for WinForms

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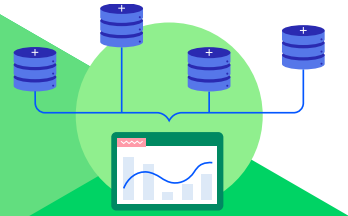

- NuGet
- Web Installer
- MSI Installer

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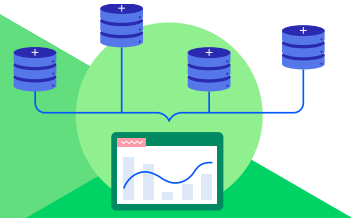

- NuGet
- Web Installer
- MSI Installer
- Manually on: https://www.telerik.com/account/

PUBLIC VERSIONS

License Type: Purchase | Version: 2025.2.520 | Search: Search for category, file...

Installation → Release notes

FILE NAME	MD5 SIGNATURE	TYPE	SIZE
Telerik_UI_For_WinForms_2025_2_520.msi	View Hash	msi	431 MB

Other Setup Files → Release notes

FILE NAME	MD5 SIGNATURE	TYPE	SIZE
Telerik_UI_For_WinForms_2025_2_520_Dlls.zip	View Hash	zip	320 MB
Telerik_UI_For_WinForms_2025_2_520_Nuget.zip	View Hash	zip	353 MB
Telerik_UI_For_WinForms_2025_2_520_PDBs.zip	View Hash	zip	90 MB

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Resources

- Documentation & Knowledge Base
- Sample Apps
- GitHub WinForms SDK
- Smart AI Components

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Resources

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- Smart AI Components

S23

	A	B	C	D	E	F	G	H	I
1	Year	Winner name	Number of wins						
2	2000	Michael Schumacher	9						
3	2001								
4	2002								
5	2003								
6	2004								
7	2005								
8	2006								
9	2007								
10	2008								
11	2009								
12	2010								
13	Total	Average wins	9.00						

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Telerik Licensing

- License Key Files in Telerik and Kendo UI Products
- New Subscription Packages for Telerik & Kendo UI
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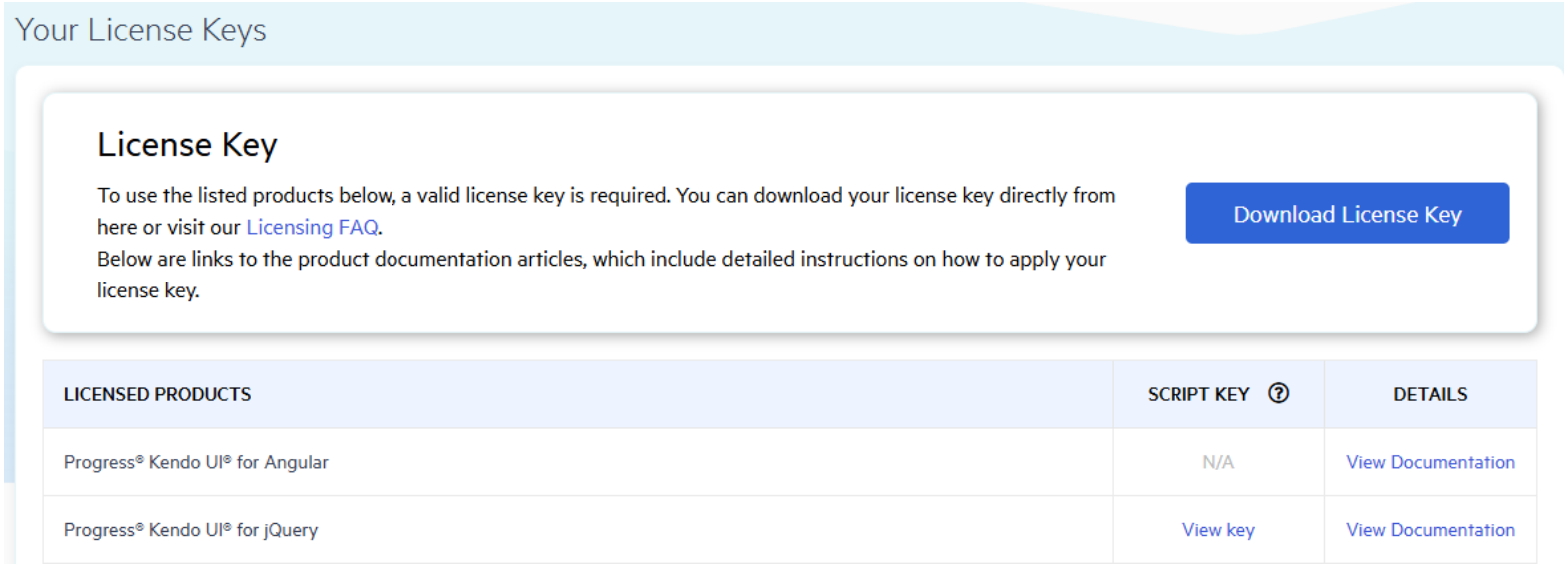

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Telerik Licensing

- [Telerik Licensing & OpenEdge]

```
[assembly:
global::Telerik.Licensing.EvidenceAttribute("eyJhbGciOiJSUzI1NiIsInR5cCI6IlRlbGVya
WsgTGljZW5zZSBFdmlkZW5jZSJ9.eyJjb2RlIjoiUkNXRiIsInR5cGUiOiJwZXJwZXR1YW
wiLCJleHBpcmF0aW9uIjoxODc3ODM1NjAwLCJ1c2VySWQiOiJlOTMzNTIzMS1kY2Qy
LTQyN2UtODNjMi0yODVkNzVkZDI1ZjliLCJsaWNlbnNlSWQiOiI4NjQxNjE4Mi0xOTM
3LTQ2ZjItYjcxNi1jYzgzNTE5NmM2ZGQifQ.dGkGQW0nEMXUIXtaayZvK2orcl_C04Fdc
```

```
CONSTRUCTOR PUBLIC Form1 (  ):
        // ActivePerpetual script key
        Telerik.Licensing.TelerikLicensing:Register("Your License Key").

        InitializeComponent().

        THIS-OBJECT:ComponentsCollection:Add(THIS-OBJECT:components).
        CATCH e AS Progress.Lang.Error:
                UNDO, THROW e.
        END CATCH.

END CONSTRUCTOR.
```

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Roadmap

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Roadmap

- AI Enablement
- Data Annotations in RadGridView
- Extended UI Automation Support
- Azure Provider in RadMap
- High DPI Improvements
- .NET 10 Support

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Document Processing Libraries

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Document Processing Libraries

- PDF Processing
- Words Processing
- Spread Processing
- Spread Stream Processing
- ZIP Library

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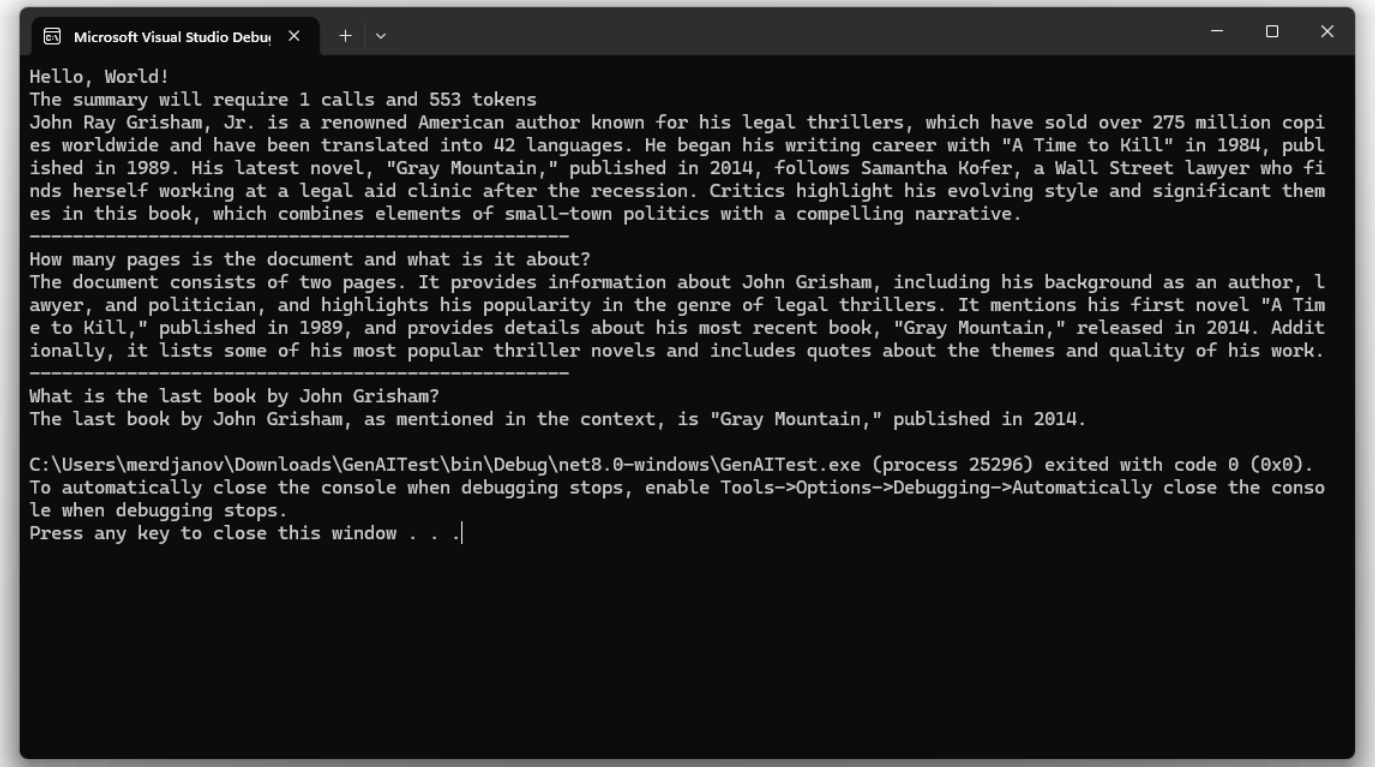
PDF Processing

AI Document Insights

- Information Retrieval
- Token Optimization
- Multiple LLM Support



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Microsoft Foundation		Telerik Added Value
Control Set & Features	→	Extensive Component Library
UI/UX	→	Themes
Customizations	→	Telerik Presentation Framework
Scaling	→	High DPI & Vector Graphics
Visual Designer	→	Enhanced Editors and Wizards
Accessiblity	→	UI Automation Everywhere
Community Support	→	Technical Support
❌	→	Document Management

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Thank You

Q & A
Let’s discuss

Slides
winforms-sdk/pug

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