

# Ignite UI New Features (last 3 years)

## 2014 Vol.1

### General

- [New Visual Studio templates](#) - You can find a new set of Infragistics templates in the File - New Project dialog of Microsoft® Visual Studio®.
- [New theme \(CTP\)](#) - A new theme named iOS 7 has been added. The theme is inspired by Apple's iOS 7 design.

### igDataChart

- [New default style](#) - This style features multiple visual changes making the charts look more impressive and streamlined.

### igColorPicker

- [New control \(CTP\)](#) - The igColorPicker™ control allows users to select pre-defined colors or to define their own color palettes.

### igGrid

- [Column Fixing works with hidden columns](#) - Now you can have both fixed and hidden columns in the grid.
- [Feature state persistence](#) - Feature state persistence means persisting states of the grid features between re-bindings.
- [Improved delete row on touch devices](#) - The delete row user experience on touch-enabled devices has improved.

### igHierarchicalGrid

- [Feature state persistence](#) - Feature state persistence means persisting states of the hierarchical grid features between re-bindings.
- [Improved delete row on touch devices](#) - The delete row user experience on touch-enabled devices has improved.

### igHtmlEditor

- [New Default Style](#) - A new look-and-feel of the toolbar and the buttons.

### igPivotGrid, igPivotDataSelector, igOlapXmlaDataSource

- [KPIs support](#) - The igOlapXmlaDataSource™ has now built-in support for displaying KPIs defined in a cube. The KPIs supplied by the data source are visualized in the igPivotDataSelector™ and igPivotGrid™.
- [Remote ADOMD.NET data provider support](#) - The igOlapXmlaDataSource now supports one more remote configuration where ADOMD.NET is used for communication with the SSAS server.

### igPopover

- [New control \(RTM\)](#) - The igPopover™ control, now RTM, adds tooltip-like functionality to DOM elements.

### igRadialMenu

- [New control \(RTM\)](#) - The igRadialMenu™ control is a context menu presenting its items in a circular arrangement around a center button.

#### igSplitButton

- [New control \(CTP\)](#) - igSplitButton is a drop-down button with which the user can select a default value bound to a primary button, or select from a list of values displayed in a drop-down list bound to a secondary button. It is useful when you want to provide a default action/command for a button but also need to supply other, secondary options.

#### igToolBar

- [New control \(CTP\)](#) - The igToolBar™ control allows you to create custom toolbars like those in the igHtmlEditor™.

#### igUpload

- [Support for Web Farms / Web Gardens](#) - The igUpload™ control now supports Web Farm / Web Garden Internet Information Services (IIS) configurations.

## 2014 Vol.2

### General

- [AngularJS directives](#) - Now Ignite UI controls feature custom directives for AngularJS.

### Ignite UI Page Designer

- [WYSIWYG for HTML5](#) - New drag-n-drop UI design surface for Modern Web using Ignite UI controls.
  - Responsive Web Design (RWD) - Visualize and manage breakpoints to make responsive design easier.
  - Clean Code Editor - See, edit, and copy clean code to incorporate into your projects.
  - Easier Data Access - Easily configure Ignite UI data source components to connect your controls to your data.
  - Integrated API Help - See help for API members in both the component editor and in the code editor.

### Client-Side Excel Library

- [New Library \(CTP\)](#) - 100% pure JavaScript client-side Excel library that can be used for creating, loading, and editing Excel documents in the browser.

### igGrid

- [Column Fixing works with row virtualization](#) - Now you can enable both Column Fixing and row virtualization in the grid.
- [Append Rows on Demand \(RTM\)](#) - Load on Demand feature is RTM and renamed to Append Rows on Demand.
- [Selection feature improvements](#) - Selection feature codebase is completely reworked.

### igTreeGrid

- [New Control \(CTP\)](#) - The igTreeGrid™ control allows you to visualize hierarchical data with common data schema into a single set of columns.

### igPivotGrid

- [Tree layout](#) - The igPivotGrid™ control now allows you to visualize the row hierarchies in a tree-like structure.

### Theming

- [Bootstrap theming](#) - Ignite UI controls now support Bootstrap theming.
- [New theme \(RTM\)](#) - The iOS 7-style theme is now RTM and renamed to just iOS theme—replaces prior iOS6-style theme. The theme also added support for the jQuery Mobile 1.4 + controls.
- [Updated themes to support jQuery UI 1.11+](#) - New theme files are added in order to support jQuery UI 1.11+ own controls.

# 2015 Vol.1

## General

- [New Ignite UI Help Viewer](#) - We have a brand new, modernized help viewer for Ignite UI.

## Ignite UI Page Designer

- [Out-of-the-Box Theming Support](#) - Added support for other Ignite UI themes and common Bootstrap-based themes that you can easily select with the built-in theme picker.
- [Improved Data Sources Experience](#) - Added explicit support for JSONP data source and local data source as well as a new data source editor.
- [Intellisense support for Ace](#) - Added support for showing intellisense when the designer is in code view and the user starts typing
- [Remote data source – user friendly errors](#) - Web designer now has user interface for showing detailed information for the possible problem, while connecting to the remote data source

## Infragistics JavaScript Excel Library

- [New Library \(RTM\)](#) - 100% pure JavaScript client-side Excel library that can be used for creating, loading, and editing Excel documents in the browser.

## igGrid

- [JavaScript-based Excel Grid Exporter \(CTP\)](#) - You can export what users are looking at into an Excel file without any round-tripping to the server.
- Column Fixing works with Column Moving - Now you can enable both Column Fixing and Column Moving in the grid.
- Improved Column Fixing API - Now you can fix a column at specific position in the grid by supplying the target key of the column to its destination position in the grid.
- More Flexibility in the Selection Feature - Multiple region selection is now possible with the Ctrl + Mouse Drag action. Selection regions may be non-contiguous.
- Paging Persistence - The persist option is now added to the Paging feature.
- [Responsive Feature Improvements](#) - A new single column template mode is added.
- [Column Styling](#) - We've added a new settings so that you can specify custom header and column CSS classes for igGrid columns configuration.

## igTreeGrid

- [New Control \(RTM\)](#) - The igTreeGrid™ control is now RTM. The igTreeGrid™ control allows you to visualize hierarchical data with common data schema into a single set of columns.
- [Tree-Specific Filtering](#) - The igTreeGrid features a specialized filtering visualization that clearly shows context in filter results in the grid.
- Tree-Specific Paging - When paging data in the grid, you have the option to page either visible data at just the root level or all visible levels.
- Enhanced Expansion Options - In order to maintain flexibility, the tree grid features a configurable expansion indicator, which can be rendered inline in the first data column or in a standalone column. The expansion indicator can also be customized with a different look-and-feel to achieve custom visualizations.

- Virtualization - The igTreeGrid includes continuous virtualization which allows you to bind the grid to large sets of hierarchical data while maintaining a high-performance experience.
- [Remote Load on Demand](#) - Sometimes large sets of data are rendered in the grid and you only want to supply the page with small sets of data at a time. By using remote load on demand, the igTreeGrid is able to add portions of the overall data to the grid as requested by the user.
- Local Load on Demand - To further maintain a high-performance grid, the igTreeGrid features local load on demand which ensures that only expanded nodes are rendered in the browser. As a user expands a parent node, then new elements are created on-the-fly in the page to support new data shown to the user.

#### igCombo

- [Rewritten Control](#) - In 15.1, we are shipping a brand new combo that is built with great UX and reliability as top priority.
- Improved Styling - The new combo does not use inline CSS styling for positioning and sizing, which means it can rely on browser rendering optimizations more.
- Improved Defaults - In some areas we have changed the defaults to provide a better UX out of the box, which also reduces the code necessary on your part to get to those optimal experiences for your end users.
- New Keyboard Interactions - The old combo had the basics, but we have dramatically expanded what you can do with the keyboard, which makes it more efficient and natural for end users to navigate, select, expand, etc. without having to switch back and forth between the mouse and keys.
- Improved Reliability - We've stripped down the size of the Combo with 44% reducing the code complexity as well as increasing the automation code coverage much higher.
- API Improvements - We also took this opportunity to revisit some less-than-optimal API choices to improve discoverability and understandability of the API.
- [Knockout Extension Improvements](#) - Now the igCombo has a fully functional Knockout Extension which supports two-way data binding between a Knockout observable collection and the igCombo list, as well as two-way data binding for selected items in the combo.

#### Mobile Controls

- jQuery Mobile 1.4+ Support - Ignite UI mobile controls are now compatible with the most recent version of jQuery Mobile, 1.4+.

## 2015 Vol.2

### General

- [New Ignite UI Scaffolder for MVC](#) - New scaffolder for Ignite UI widgets.
- Full support for ASP.NET MVC 6 for all Ignite UI widgets - The Infragistics.Web.Mvc.dll now includes version build against ASP.NET MVC 6.
- Ignite UI TypeScript 1.5 definitions - The Ignite UI TypeScript definitions now support TypeScript 1.5. Intellisense is added for widget methods.

### igCombo

- Auto complete - Typing in the combo will now suggests the first matching result from the list. [View sample](#)
- [Grouping](#) - You can now group items in the combo list. [View sample](#)
- Header and Footer Templates - Header and footer can now be configured in the combo using templates. [View sample](#)
- RTL Support - Added support for right-to-left languages.
- [Dropdown Orientation](#) - By default the dropdown list will automatically display on top or bottom depending on the available space. You can also explicitly configure its behavior with the dropDownOrientation option.
- Custom Values - The option allowCustomValue to set custom values in combo's text input was dropped in 15.1, but we listened to your feedback and we are enabling this back in this release. [View sample](#)
- Performance Improvements - We ensure all interactions with the combo work smoothly with more than 10 000 records. Initial loading time, dropdown opening and closing animations, selection, typing with auto complete and auto select – it all works blazing fast.

### igDataChart

- [New Axis Intervals](#) - The Major and Minor intervals feature of the igDataChart control allows you to apply intervals with the specified color and thickness to the x and y axes of the igDataChart control.

### Editors

- [New editors](#) - In 15.2, we are shipping a brand new editors that are more robust, feature rich and performant.

### igGrid

- [Refactored Updating](#) - The refactored grid Updating feature takes advantage of the new editors and validation mechanisms and offers a re-designed dialog edit mode experience.
- Column Auto Sizing - Grid columns now support automatic resizing based on the width of cell content. To enable auto-sizing use the \* as a value of a column's [width](#) option.
- [Filtering Improvements](#) - You can now add a custom filter condition and choose the filtering conditions for a specific column.
- Improved KnockoutJS support - Responsive Vertical Column rendering is now supported with KnockoutJS.

- JavaScript-based Excel Grid Exporter (RTM) - JavaScript-based Excel Grid Exporter is now RTM and supports igGrid, igTreeGrid and igHierarchicalGrid.
- ARIA support - We now comply with the W3C WAI-ARIA specification to ensure our customers can provide their disabled users with satisfactory experience.
- [RowSelectors Improvements](#) - You can now enabled selection across all pages when Row Selectors with checkboxes and Paging are enabled.

#### igHierarchicalGrid

- JavaScript-based Excel Grid Exporter (RTM) - JavaScript-based Excel Grid Exporter is now RTM and supports igGrid, igTreeGrid and igHierarchicalGrid.
- ARIA support - We now comply with the W3C WAI-ARIA specification to ensure our customers can provide their disabled users with satisfactory experience.

#### igTreeGrid

- [Row Selectors](#) - TreeGrid Row Selectors feature inherits the functionality from the igGrid Row Selectors feature and add additional tri-state mode.
- [Remote Sorting, Paging, Filtering and Load on Demand in the TreeGrid MVC Wrapper](#) - All the standard sorting, paging, filtering and load on demand functionalities now work out of the box within the MVC wrapper in a remote scenario.
- Column Moving - TreeGrid now features Column Moving feature which inherits from its igGrid counterpart.
- Resizing - TreeGrid now features Resizing feature which inherits from its igGrid counterpart.
- Keyboard Navigation - Keyboard navigation in TreeGrid is improved.
- [Paging Context Row](#) - Paging context row is added to communicate the context of a leaf level row.
- JavaScript-based Excel Grid Exporter (RTM) - JavaScript-based Excel Grid Exporter is now RTM and supports igGrid, igTreeGrid and igHierarchicalGrid.
- ARIA support - We now comply with the W3C WAI-ARIA specification to ensure our customers can provide their disabled users with satisfactory experience.

#### igNotifier

- [New component](#) - The Notifier component is an extension of the popover component, which specializes in providing the end user with notification information.

#### igValidator

- [Refactored Validator](#) - The Validator is reworked to allow flexible validation on an array of Ignite UI components, as well as standard input form elements

#### igUpload

- Sending additional data between the client and server during file uploading - You can now transmit data between client and server during the file uploading process.

# 2016 Vol.1

## General

- New Bootstrap 4 theme-A new Bootstrap 4 compatible theme is now shipped with Ignite UI - [view sample](#).
- Angular 2 Components (CTP) - Ignite UI widgets have component wrappers for Angular 2. For detailed information visit [Ignite UI Angular 2 GitHub](#) page.
- New scalable font icons - The default Infragistics theme now uses [jQuery UI font icons](#) instead of image icons.
- Modernizr 3.x support - Ignite UI uses Modernizr library to detect touch environments (see [Touch Support for Ignite UI Controls](#)). [Modernizr 3.x](#) is now supported along with older Modernizr versions.

## igTileManager

- Splitter Options - splitterOptions now replaces the showSplitter option. Besides showing and hiding, additional functionalities are added. You can configure the splitter to be collapsible as well as attach to its collapsed/expanded events. Since showSplitter option will no longer be available, you can refer to the following sample to see how the new option can be used - [view sample](#).

## igDataSource

- New field option - mapper-For field with dataType="object" we now allow setting a [mapper](#) function, which can be used for complex data extraction from complex objects, whose return value will be used for all data operations executed on the specific field.  
You can find more detailed information in the following topic: [igDataSource Overview](#)-

## igGrid

- New column option - mapper-For columns with dataType="object" we now allow setting a mapper function, which can be used for complex data extraction from complex objects, whose return value will be used for all data operations executed on the specific column. [view sample](#).  
You can find more detailed information in the following topic: [Columns and Layout](#)-
- The ColumnFixing feature now works with grid width set in percentage - The ColumnFixing feature now works when the grid width is set in percentage.  
**Note:** The column widths should still be defined in pixels units (either explicitly or using the [defaultColumnWidth](#) option).
- [Multi-Row Layout feature](#) - The Multi-Row Layout feature enables you to create complex grid record layouts, that contain multiple rows with cells in them spanning multiple columns and rows.
- [Checkbox Appearance](#) - Checkbox column visual appearance have changed to indicate that the checkmarks are not interactable in display mode.
- Paste from Excel sample - A new sample is added that demonstrates pasting Excel clipboard data into igGrid - [view sample](#).

## igTreeGrid

- [Improved Updating feature](#) - igTreeGrid Updating feature now adds the UI for adding root and child level rows.

## TypeScript Support

- Starting with 16.1 release Ignite UI the minimum supported TypeScript version is 1.4.
  - [Support for union types](#) - widget members now support union types which greatly improves type checking.
  - [Intellisense improvements](#) - Intellisense is improved for options and methods.
  - [Member descriptions](#) - All members now have a description

## 2016 Vol.2

### General

- Ignite UI OSS-A big part of the Ignite UI toolset is now open source. Checkout the repository on [GitHub](#)-
- Ignite UI directives for Angular 2 (RTM) - Ignite UI widgets have component wrappers for Angular 2. For detailed information visit [Ignite UI Angular 2 GitHub](#) page.
- Ignite UI Components for React (CTP) - Ignite UI widgets have component wrappers for [React](#). For detailed information visit [Ignite UI Components for React](#) page.
- ASP.NET Core 1.0 MVC Helpers - Ignite UI MVC Helpers now support ASP.NET Core 1.0. Checkout the [Using Ignite UI controls in ASP.NET Core 1.0](#) topic.
- ASP.NET Core 1.0 MVC Tag Helpers - Ignite UI now provides Tag Helpers for ASP.NET Core 1.0. Checkout the [Using Ignite UI Tag Helpers](#) topic.
- [New Javascript file breakdown](#) - The goal is to reduce the amount of code required in order to load a specific feature.
- DPI Scaling - High DPI Scaling is enabled by default now which makes the components look much sharper and crisper than before. Components that have the DPI Scaling by default now are - igDataChart, igPieChart, igFunnelChart, igDoughnutChart, igRadialGauge, igLinearGauge, igBulletGraph, igSparkline, igRadialMenu.
- Standard moduling support - All of IgniteUI JavaScript files contain AMD module definitions. Therefore these files can be loaded using standard module loaders such as RequireJS, SystemJS etc.
- [Ignite UI NuGet packages](#) - New Ignite UI NuGet packages are available, including a package for creating .NET Core applications.

### igCategoryChart

- [New Control](#) - With a simplified API this control can be easily configured to display category data.

### igDataChart

- [New property](#) - A new property ConsolidatedColumnVerticalPosition is added, which determines the positioning logic to use for columns which have been consolidated into a single visual element.
- [Performance Enhancements](#) - In the Infragistics 2016 volume 2 release, we significantly improved the performance of the igDataChart control.
- [Design Changes](#) - We redesigned the defaults of the igDataChart, igPieChart, igFunnelChart, igDoughnutChart, igRadialGauge, igLinearGauge, igBulletGraph, and igSparkline control.
- [File Size Reduction](#) - The size has been reduced for loading a category chart, and we also modularized the igDataChart control.

### igDataSource

- New grouping functionality - The igDataSource now handles grouping and persists the grouping expand and collapse state.
- Sorting performance optimizations - Local sorting is now up to 10x faster.

## igFunnelChart

- [Label Styling](#) - You can now specify the color of the funnel chart's inner and outer labels.

## igGrid

- [Group By Improvements](#) - Group By now features improved Virtualization support and APIs to expand/collapse rows.
- Sorting performance optimizations - Local sorting is now up to 10x faster.
- [Inline editing for Multi-Row Layout](#) - The Multi-Row Layout feature now supports inline row and cell editing.
- Multi-Column Headers collapsible column groups - Collapsible Column Groups is a feature that provides an option to collapse/expand a Multi-Column Header to a smaller set of data.
- Column setter - Column collection now can be changed at runtime.
- igGrid Modal Dialog extensibility - Grid features that include dialogs (Updating, Filtering, Sorting, Hiding, GroupBy, Column Moving) now add a new dialogWidget option allowing for custom dialog implementations - [view sample](#) and [topic](#).
- Binding Real-Time Data sample - A new sample is added that demonstrates binding igGrid to real-time data - [view sample](#).
- Performance Options sample - A new sample is added that demonstrates the performance options provided by the igGrid - [view sample](#).

## igPieChart

- [Slice Selection](#) - You can now select a pie slice on the igPieChart control.
- [New Event](#) - New event that fires when a label is clicked.
- [Label Coloring](#) - You can now specify the color of the pie's inner and outer labels.
- [Data Path Options Renamed](#) - The valueMemberPath and labelMemberPath options are renamed.

## igScroll

- [New Control](#) - The igScroll™ control unifies scrolling experience between browsers and devices.

## igZoombar

- Integration with Custom Components - The igZoombar now exposes a pluggable integration mechanism for third-party custom components. Checkout the [igZoombar Integration with Custom Components](#) topic.

## 2017 Vol.1

### igSpreadsheet

- [New control igSpreadsheet](#) - The igSpreadsheet is a jQuery widget that visualize excel documents in all modern browsers.

### igScheduler

- [New control igScheduler](#) - The igScheduler is a jQuery widget that provides a common scheduling solution for presenting and managing time periods and the associated activities.

### igDataSource

- [Filter By Text](#) - The igDataSource component provides a way to search for a specific words or phrases in all of its fields.

### igGrid

- [Date Handling](#) - The igGrid provides a way to control the display and edit of date values for clients in different time zones.
- [More Flexible Caption](#) - igGrid's new caption is designed to be more flexible and customizable.
- [GroupBy Summaries](#) - The GroupBy feature now allows a summary row to be displayed below and/or above each group data island.

### igCombo

- [Knockout Disable Handler](#) - Knockout Disable binding handler has been implemented for the combo.

### Editors

- [Knockout Disable Handler](#) - Knockout Disable binding handler has been implemented for the editors.

### igNumericEditor

- [Round Decimals](#) - The numeric editor introduces new option [roundDecimals](#) that allows to round values with decimal point.

### igDateEditor/igDatePicker

- [Date Handling](#) - New editors' settings are needed when handling date transfers.

### igDatePicker

- [Date Picker Options MVC wrapper](#) - When using DatePicker MVC wrapper, now additional wrapper for the date picker options is available.

### igDataChart

- [Zoom Enabling Options](#) - New options called [isHorizontalZoomEnabled](#) and [isVerticalZoomEnabled](#) have been added which control whether zooming is allowed on either the horizontal or vertical axis.

### igMap

- [OpenStreet Tile Path](#) - The option called [tilePath](#) has been added to the [backgroundContent](#) option for the OpenStreet tile source.

### igRadialGauge, igLinearGauge, igBulletGraph

- [Design Changes](#) - The visuals for the gauges have been updated.