



9.2 Release Notes

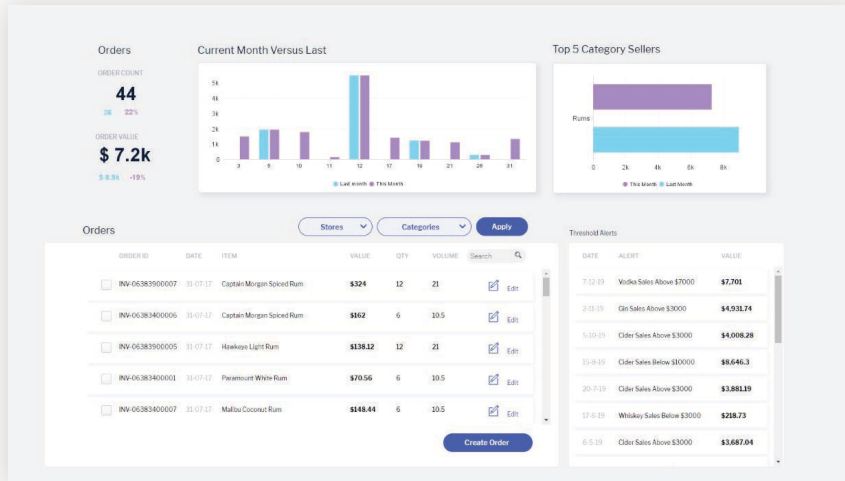
June 2020

Main Highlights

JavaScript API v3

A new and improved JavaScript API that allows users to perform complex integrations of Yellowfin into other applications. This new version contains an updated UI, and a richer set of functions and events. The new API can be used for embedding Yellowfin content, and can also be used within Dashboard Code Mode in order to extend and customize your Dashboards.

Note that v3 of the API supersedes and replaces v2. The legacy API will continue to be supported however we encourage all new Customers to use the new API, and existing Customers to plan a migration across to v3 in order to enjoy the new features and improved UI.



The top 2 charts are embedded into an external application using JavaScript API.

Integration with JavaScript

The new JavaScript API can be used to embed and manipulate Yellowfin content in your web application. Along with Reports, entire Dashboards can be integrated.

JavaScript in Code Mode

The same API can be used to create customized user experiences or to embed application logic in a Code Mode Dashboard within Yellowfin.

Multiple ways to embed

Embed content with the JavaScript API using one of two methods: Embed Links and Advanced API.

- Embed Links - Retrieve an embed link from the Yellowfin application and embed a report, chart, or dashboard into your application. Further control the look and behaviour of the embedded content by using various parameters.
- Advanced API - Use a rich set of advanced API functions for more dynamic and flexible control over embedded content.

Learn more

Documentation for the JavaScript API v3 is available [here](#).

Major enhancements introduced in Yellowfin 9.2:

- New JavaScript API
- Rest API
- Multi tab usage
- Step Changes Signals

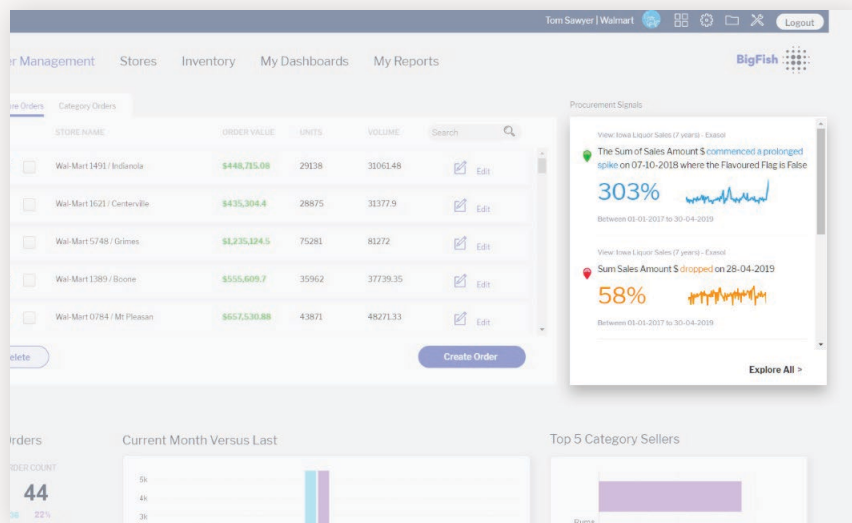
Main Highlights

Rest API

The new REST API makes its debut in 9.2, providing support for administrators that want to automate back-end processes, perform administrative tasks and manage content programmatically. Importantly, the REST API also provides access to Yellowfin content for developers, enabling them to build custom experiences incorporating Yellowfin Signals, Stories, Timeline Notifications and more.

New REST services will be added progressively in the coming releases.

Documentation for the current set of services is available [here](#).



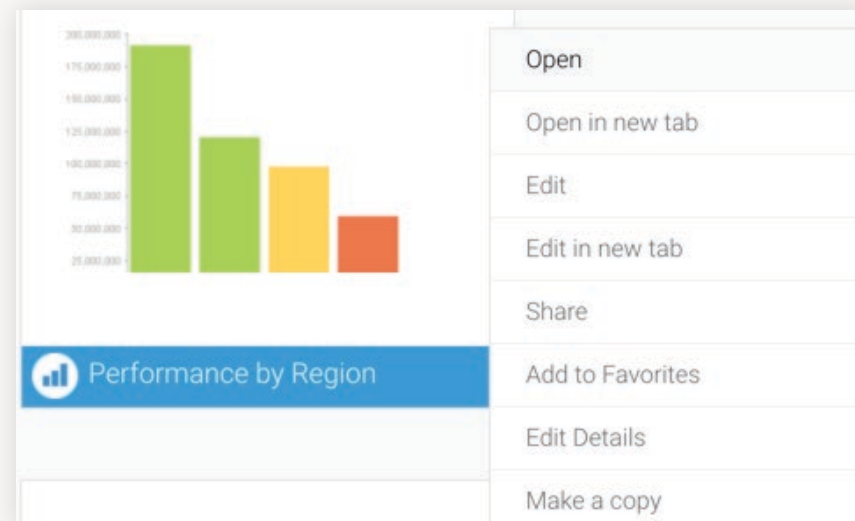
An example of Yellowfin Signals embedded into an external application using Rest API.

Multi Tab Functionality

Multi tab allows a user to use Yellowfin across multiple tabs and windows within the same browser. This means you can open and use content across many tabs simultaneously. To protect data from getting corrupted, measures have been put in place to ensure that content being edited in one tab, cannot be edited in another tab.

We have added options within the UI that enable a user to open or edit content in a new tab. For example, by accessing popup menus on content items in the browse page or the timeline.

Further information to use and enable support for multi tab usage is available [here](#).

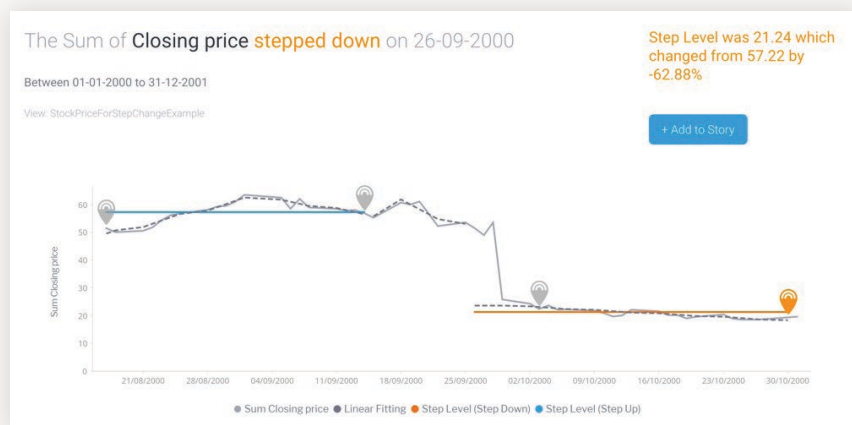


Main Highlights

Step Changes Signals

The overarching goal of Signals is to automate the process of discovering relevant changes in your data. These changes can take many shapes and forms, each signifying an insight that may be useful to your business. Each of these changes has a specific pattern, and the job of the algorithm is to identify those patterns in any data. Adding more algorithms allows Signals to find more of those different patterns and thus alert users to potential new insights.

Step changes are the newest algorithm in the Signals product - joining fellow algorithms that detect outliers such as spikes, drops and breakouts, volatility changes, changes in total and average, trend changes, and new or lost attributes. A step change occurs when a time series moves from one 'stable' state to another. If that state is higher, we call that a *step up*, if it is lower, we call it a *step down*.



Step changes identified in the stock price of Apple during the dot com crash.

“Yellowfin was always designed from the ground up to support Software Companies who wanted to embed modern analytics capabilities. This is not capability that we have tacked on to our stack, it’s in our DNA,” said Brad Scarff, CTO of Yellowfin.

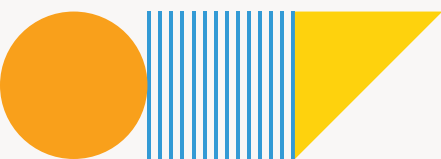
“With version 9, we delivered unparalleled capabilities to our Software Company clients – stunning action-oriented dashboards, truly automated insight discovery, engaging data storytelling and collaboration, all backed with sound governance and security, as well as all the other features needed to bring your embedded solution to market.

The 9.2 release raises the bar again – developers now have the full range of tools at their disposal to create compelling embedded analytics experiences for their customers with minimum amount of effort and coding. And for those that want a little more, all components of the Yellowfin platform are fully extensible and can be tailored to exactly meet your needs.”

Enhancements and Improvements

A complete list of enhancements and changes in Yellowfin 9.2

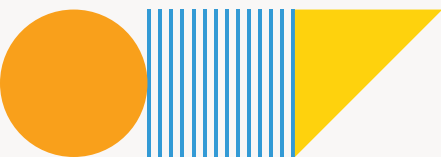
APIs	
JavaScript API	Introduced in Yellowfin 9 as beta, the new JavaScript API is now fully supported in 9.2. Rich in features, the API contains an updated UI, and a richer set of functions and events. The new API can be used when embedding Yellowfin, or used within Yellowfin in Dashboard Code Mode.
Rest API	The new REST API makes its debut in 9.2, providing support for administrators that want to automate back-end processes, perform administrative tasks and manage content programmatically. Importantly, the REST API also provides access to Yellowfin content for developers, enabling them to build custom experiences incorporating Yellowfin Signals, Stories, Notifications and more.
User Experience	
Usage across multiple browser tabs and windows	New functionality has been added to allow Yellowfin to be used across multiple tabs or windows of the same browser. Safety checks have been put into place to protect against data corruption. This prevents the same content from being edited in multiple tabs concurrently.
Timeline event card menu	Timeline cards that mention Yellowfin content or contain links, now have a menu icon. This menu offers options to open the content in the same or separate tabs.
Yellowfin Dashboards & Present	
Associated reports	We have reimplemented the Associated Reports functionality. Users are able to add reports as links in their dashboards, rather than displaying full reports.



Trigger events with dashboard widgets	We've expanded the Action Buttons functionality to all other dashboard canvas widgets. Widgets are dashboard objects, such as text, graphical shapes, images, filters, that can be added to the dashboard. It is now possible to make any dashboard widget actionable. This means that an event can be triggered when a widget is clicked. The types of events include: navigating to specific sub tabs, resetting dashboards or filters, jumping to a report or even an external link.
New action events	New events have been introduced for action buttons and all other widgets. These include: 'Go to URL' that navigates to an external page, and 'Go to Sub Tab' that navigates to any sub tab within the dashboard.
Show report menu	New settings have been added to control the visibility of menus that pop up on report objects. These settings can be set to always show report menus, never show them, or only show them when a user hovers on them. Users can use these settings to display or hide menus that pop up on dashboard reports.
Report column sorting	Report columns can now be sorted in ascending or descending order in dashboard report tables.
Filter reset control	A new dashboard property toggle that changes the control of the Filter Widget's Reset button to reset the entire dashboard.
Retain filter when jumping to report	We have reintroduced filter functionality that allows filter values applied in a dashboard to be retained when opening a report page. Furthermore, we have added navigational buttons to return to the dashboard.
Filter entry style	The ability to change the display style of report filters within a dashboard has been added to the dashboard builder. This allows the entry style to be changed to checkboxes, lists, pop-ups, dropdowns or radio buttons.
Text Widget URLs	Users can link Text widgets to external or internal URLs in the revamped dashboard builder.
Default filter bookmarks	Users can now save personalized default filter bookmarks that will automatically be applied to the dashboard when first loaded, or if the filters are reset.
Full screen mode for Dashboard and Present	Published Dashboards and Presentations can now be opened in full screen mode.

Present toolbar	A new Present toolbar has been added to published presentations, with options that show users who have favorited the Presentation, as well as options to configure user access and share the presentation with others.
Filter button location	The setting to choose the location of the 'Apply' button in a filter panel has been reintroduced. Users can choose to keep the button, and other filter control options, at the top or bottom of the panel, or in both locations.
Yellowfin Data Prep	
Column restrictions in View access levels	The 'Read Restricted' access level provides further restrictions to access View columns. This allows only those with nominated permissions to write reports with restricted columns and view these columns in reports. No other users will ever be able to see these columns.
View access level rename	The 'Restricted' access level under view builder settings, has been renamed to 'Author Restricted'.
InterSystems IRIS data connection	Yellowfin now provides support for the InterSystems IRIS database.
Yellowfin Signals	
Step Changes Signal	The new Step Changes Signal is now generally available. Part of the Outliers detection group, a Step Change occurs when a time series moves from one 'stable' state to another. These states can be higher (called Step Up) or lower (Step Down). Advanced parameters related to this Signal are also introduced to configure the algorithm to the users' needs.
Renamed Signal parameter	The 'Old Signal Notifications' parameter used for configuring Outlier algorithms has been renamed to 'Prevent Notifications of Older Signals'.
Yellowfin Data Discovery	
Save to Disk Broadcast	A new Broadcast schedule type has been introduced. 'Save to Disk' broadcast allows users to schedule reports to be saved on the local server path.
Calculated field descriptions	A new column formatting setting has been provided for calculated fields that allows users to clearly describe the field's purpose and content to aid report writers.

Calculated field result type	<p>It is now possible to define the datatype of a calculated field's resulting column, such as Numeric, Boolean, Text or Date. In this case, the system will not perform a validation test.</p> <p>The option to allow the system to determine the data type is also still possible by choosing the Auto Detect option.</p>
Report preview and active row default limits	<p>New administration configurations have been added to define default limits for the number of rows to preview data as it's built in the report builder, and the number of resulting rows returned in the active reports. These settings allow default limitations to be applied to all reports, which can be changed at the report level.</p>
Dynamic filter values	<p>A new setting has been introduced for report filters where the first value is selected for a dimension filter. This is useful for situations where a user does not have the default value available to them, for example in case of access filter restrictions.</p>
Scheduled historic runs	<p>Functionality has been added to display multiple previous executions of scheduled tasks.</p>
Broadcast recipients and status	<p>Scheduled tasks that deliver content, such as report broadcasts, now maintain a list of recipients. Each execution tracks users who successfully received the content and who did not. It is also possible to view the error in case of a failed delivery.</p>
SQL error preview	<p>The SQL generation functionality in the Report builder has been enhanced to display SQL statements even if the report has generated an error.</p>
Version history in content folders	<p>Version History for all new content folders will now default to 'Current Version Only', where no historical records are kept, to avoid large amounts of data from building up.</p>
Global Configuration for Axis Formatting	<p>The Axis Formatting column setting for charts, can now be specified at the admin configuration level. Administrators can choose if numeric axis units will be summarized or define custom formatting. This setting will be applied in charts if Axis Formatting is set to 'Default'.</p>
Edit charts from report canvas	<p>Functionality to edit a specific chart from the Report's design canvas has been re-introduced.</p>
Sharing private reports	<p>A new user role function has been introduced to restrict report authors from sharing private reports with other users.</p>



Default formatting on imported charts

In Yellowfin 9, we introduced a revamped look and feel for charts and reports with new formatting applied by default. Now, functionality has been added to ensure imported charts retain the default formatting of the version the report was exported from.

SOAP Web services**GETUSERGROUPS web service**

A new GETUSERGROUPS web service has been added. The purpose of this web service is to retrieve information on groups a user belongs to.

Signal Session Options

New Session Option parameters have been added to make a Signal page the entry point after an SSO login.

Retrieve Content ID with web services

Changes have been made to the GETCONTENT web service. It now also retrieves the Content's ID.

Change access level to content folders

Two content managing web services, ADDTOACL and DELETEFROMACL have been enhanced to support access levels. This means that users will be able to specify the exact access level they wish to add or remove from content folders.



Things change. Know why.

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