API

API

API

APIYellowfin API

Chart IDChart ID

chartIdchartUUIDchartIdchartUUIDchartIdchartUUIDchartIdchartUUID

chartId

ID

IDIDgetFieldId(fieldName)IDfieldIdfieldId

1.
2.
3.

YellowfinAgency TypeAgency NameAgency TypeAgency Name

SQL

```
SELECT DISTINCT
      "TRAVELAGENCY"."AGENCYTYPE" AS C1
FROM "TRAVELAGENCY"
```

AgencySQLAgency TypeAgency Type

```
SELECT DISTINCT
      "TRAVELAGENCY"."AGENCYNAME" AS C1
FROM "TRAVELAGENCY"
WHERE (
     "TRAVELAGENCY"."AGENCYTYPE" = 'Agency'
)
```

API

---

name

String

reportUUIDUUID

String

UUID

entityUUIDUUID

String

null

filters

API

API API API

fields

Array[ReportField]

charts

Object{String, ReportChart}

UUID

reportKey

String

API

API

useDefaultAssistedInsightsPanel

true

displayAssistedInsightsDatafalse

```
let reportElement = this.apis.canvas.select('Performance by Region');
reportElement.onReportLoad.then(() => {
let reportAPI = reportElement.reportAPI;
reportAPI.useDefaultAssistedInsightsPanel = true;
});
```

preventDefaultAssistedInsights

false

runAssistedInsights

UI

```
let reportElement = this.apis.canvas.select('Performance by Region');
reportElement.onReportLoad.then(() => {
let reportAPI = reportElement.reportAPI;
reportAPI.preventDefaultAssistedInsights = true;
});
```

---

getFieldId(fieldName)ID

Number

fieldNameIDnull

InvoicedID

```
let fieldId = report.getFieldId('Invoiced');
```

getFieldName(filedId)

String

fieldIdnull

```
report.addListener('drilldown', function(event) {
    console.log(report.getFieldName(event.eventData.fieldId) + " just had a drill value applied to it");
})
```

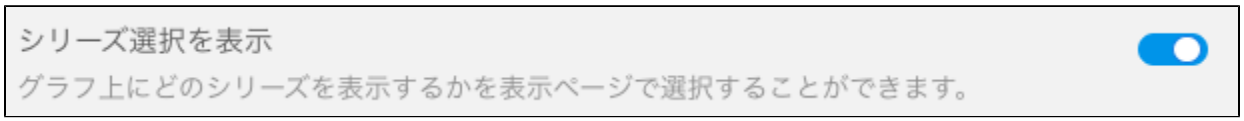
getChartId(chartId)ID

Number

UUIDIDIDIDnull

applySeriesSelection(series, chartId)

ID



fieldId**applySeriesSelection**fieldId

Series - Array[Number]

ID

chartId - String, Number

IDIDID

```
let fieldsToAdd = ['Invoiced', 'Cost', 'Profit'];
report.applySeriesSelection(fieldsToAdd );
```

ID

```
report.applySeriesSelection(5);
```

```
report.applySeriesSelection('Invoiced');
```

createReportElement(elementOptions)

HTML

API

elementelementelementOptionselement

BaseAPI.loadereportreportId, instanceNamefilterValuescreateReportElement

1element

HTML

```
<div id=”reportContainer”></div>
```

CSS

```
div.reportContainer app-report {
    width:500px;
    height:500px;
}
```

JS

```
let reportUUID = ‘a-report-uuid’;
yellowfin.loadReport({
    reportId: reportUUID
}).then(report => {
    let charts = report.charts;
    Object.values(charts).forEach(chart => {
        report.createReportElement({
            element: document.querySelector(‘#reportContainer’),
            displayType: ‘CHART’, //Tell the report to render as a chart
            chartUUID: chart.uuid, //Tell the report which chart you wish to render
            displayToolbar: false //Tell the report not to render any toolbar
        });
    });
});
```

500×500

2

HTML

```
<div id=”reportContainer”></div>
```

CSS

```
div.reportContainer app-report {
    width:500px;
    height:500px;
}
```

JS

```
let reportUUID = ‘a-report-uuid’;
yellowfin.loadReport({
    reportId: reportUUID
}).then(report => {
    report.createReportElement({
        element: document.querySelector(‘#reportContainer’),
        displayType: ‘CANVAS’, //Tell the report to render as a chart
        displayToolbar: false //Tell the report not to render any toolbar
    });
    report.createReportElement({
        element: document.querySelector(‘#reportContainer’),
        displayType: ‘REPORT’, //Tell the report to render as a chart
        displayToolbar: false //Tell the report not to render any toolbar
    });
});
```

Yellowfin

elementelementelementelementelementelement

false

animation

annotations

brushing

drillAnywhere

drillBreadcrumbs

drillDown

drillThrough

unitSelection

timeSlider

seriesSelection

annotations

creatReportElement

```
report.createReportElement({
    interactions: {
        animation: false,
annotations: false,
brushing: false,
drillBreadcrumbs: false,
drillDown: false,
 drillAnywhere: false,
drillThrough: false,
unitSelection: false,
timeSlider: false,
seriesSelection: false,
    }
});
```

sortAscending(fieldId)

ID

fieldId: Number, String

ID

sortDescending(fieldId)

ID

fieldId: Number, String

ID

runReport()

runReport

5

```
//Add a listener for the reportComplete event
report.addListener('reportComplete', () => {
        //Add a 5000ms delay before triggering runReport again
       setTimeout(() => {
              report.runReport();
       }, 5000)
});

report.runReport();
```

runAssistedInsights

Promise

PromiseassistedinsigntsCompleted

assistedInsigntsRequestedByChart eventData

Options{object}

- loader{DOM }
- reportTitle{String}

options object

- type{String} - compareexplain
- metricField
- metricDescription
- categoryField
- value1{String Number}:

explainString

- dateValue
- timeSeries
- discreteTimeSeries
- granularity

compareString

- categoryFieldId
- categoryKey
- value2{String Number}:
- valueOneFormattedvalue oneAustralia

- valueTwoFormattedvalue two

- timeSeries
- discreteTimeSeries
- timeGranularity

runAssistedInsightsassistedInsightsRequestedByChart

```
let assistedInsightsData = {
    categoryField: 60629,
    categoryFieldId: 1,
    categoryKey: "61039",
    dashboardName: "Sales Performance",
    dashboardUUID: "e7409ff2-f846-44e1-a603-b78ec51b20b9",
    metricDescription: "KPI",
    metricField: 60686,
    reportTitle: "Comparing KPI for Europe to Asia",
    parentReportId: 61035,
    sourceId: 54700,
    type: "compare",
    value1: "Europe",
    value2: "Asia",
    valueOneFormatted: "Europe",
    valueTwoFormatted: "Asia",
    viewId: 60543
};
reportAPI.runAssistedInsights(assistedInsightsData);
```

openComaprePanel(value, comparableValues, metricDescription)

compareValuesSelected compareValuesSelected

openComaprePanelpreventDefaultAssistedInsightstruerunAssistedInsightsopenComaprePanel

- value{Object}: valueObject
    - value/rawValuedescription/formattedValue

```
{
    value: “EU”,
    description: “Europe”
}
```

```
{
    rawValue: "EU",
    formattedValue: "Europe"
}
```

assistedInsightsRequestedByChart valueeventDatavalue 1comparableValuespossibleValues

- comparableValues{Array}: valueObjects
    -

```
[{
    value: “AUS”,
    description: “Australia”
},
{
    value: “NA”,
    description: “North America”
}]
```

- metricDescription{String}KPIUI

```
reportAPI.addListener('assistedInsightsRequestedByChart', event => {
let runAssistedInsightsData = event.eventData;
if (runAssistedInsightsData.type === 'compare' && runAssistedInsightsData.value2 == null) {
reportAPI.openComparePanel(runAssistedInsightsData.value1, runAssistedInsightsData.possibleValues, runAssistedInsightsData.metricDescription);
}
});
```

displayAssistedInsightsData(assistedInsightsData)

APIuseDefaultAssistedInsightsPanelfalse

deleteTemporaryAssistedInsightsReport

```
let runAssistedInsightsPromise = reportAPI.runAssistedInsights(data);
runAssistedInsightsPromise.then(assistedInsightsData => {
// Display the report results
reportAPI.displayAssistedInsightsData(assistedInsightsData);
});
```

cancelAssistedInsights(assistedInsightsUUID)

UUIDassistedInsightsProgress eventData

```
reportAPI.addListener('assistedInsightsInProgress', event => {
let assistedInsightsTaskUUID = event.eventData;
reportAPI.cancelAssistedInsights(assistedInsightsTaskUUID);
});
```

deleteTemporaryAssistedInsightsReport(assistedInsightsReportId)

Yellowfin

- assistedInsightsReportId{Number}: IDrunAssistedInsights promiseassistedInsightsCompleted

```
let runAssistedInsightsPromise = reportAPI.runAssistedInsights(data);
runAssistedInsightsPromise.then(assistedInsightsData => {
let reportId = assistedInsightsData.assistedInsightsReportId;
reportAPI.deleteTemporaryAssistedInsightsReport(reportId);
});
```

registerOutputType(outputOptions, callback)

Number

outputType

reportComplete

Yellowfin 9.2

- **rawValue**
- **formattedValue**
- **htmlFormattedValue**HTML

Gender

```
{
        rawValue: 'FEMALE', //In the SkiTeam database the Gender code is all caps
        formattedValue: 'Female', //After it has been formatted as a refcode it becomes a more readable version
        htmlFormattedValue: 'Female' //For this case, they are exactly the same.
}
```

formattedValuehtmlFormattedValue

formattedValuehtmlFormattedValueHTMLGender As LinkURL

Gender	Gender As Link
Female	FEMALE

```
[{
        formattedValue: "Female"
        htmlFormattedValue: "Female"
        rawValue: "FEMALE"
},
{
       formattedValue: "FEMALE"
        htmlFormattedValue: "<a href="localhost:8080/myTestSite/FEMALE" target="_blank" rel="nofollow noopener noreferrer">FEMALE</a>"
        rawValue: "FEMALE"
}]
```

htmlFormattedValueformattedValue

outputOptions: String, Object

ObjectStringString

callback: Function

```
report.registerOutputType('dataset', function(reportDataset) {
        console.log(reportDataset);
});
```

outputInformation

```
report.registerOutputType({ resultType: 'dataset' }, function(reportDataset) {
        console.log(reportDataset);
});
```

removeOutputType(outputKey)

outputKeyYellowfin

outputKey: Number

outputKey

```
let outputId = report.registerOutputType('dataset', function(data) {
        console.log(data);
        report.removeOutputType(outputId);
});
```

reset()

filter.resetFiltersToDefault()filters.clear()

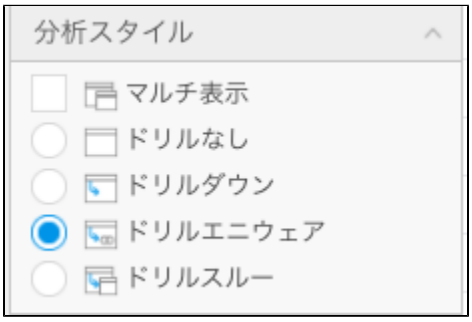
```
let resetButton = document.querySelector('div#resetReportButton');
resetButton.addEventListener('click', function(e) {
        report.reset();
});
```

Add a reset button that can reset the reports interactions and its filters back to their default values

```
let resetButton = document.querySelector('div#resetReportButton');
resetButton.addEventListener('click', function(e) {
        report.reset();
        report.filters.resetFiltersToDefault();
});
```

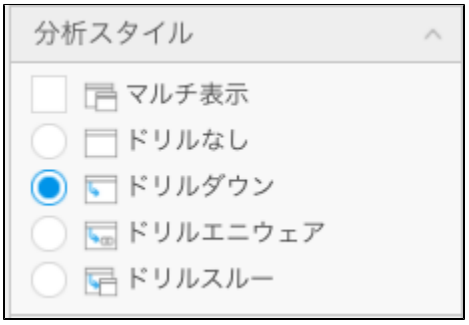
isDrillAnywhere()

Boolean



isDrillDown()

Boolean



isDrillDownApplied()

Boolean

```
console.log(report.isDrillDownApplied()); //Will return "false" as no drilling has been applied
report.drill(1, 'Agency');
console.log(report.isDrillDownApplied()); //Will now return "true" now that has drill down has been applied
```

isDrillAnywhereApplied()

Boolean

drill(fieldId, value, toField)

ID

toFieldfieldIdtoField

fieldId: Number, String

value: Number, String

toField: Number

ID

IDAgency TypeAgency

```
report.drill(1, 'Agency');
```

ID

```
report.drill('Agency Type', 'Agency');
```

drillUpLevels(fieldId, levels)

fieldId

report.drillUpLevels(fieldId, 1)

report.drillUpLevels(fieldId, 5)

field: Number, String

levels: Number

fieldId 1

```
report.drillUpLevels(1, 1);
```

drillUpOneLevel()1

1

```
let drillUpButton = document.querySelector('div#drillUp');
drillUpButton.addEventListener('click', function() {
        report.drillUpOneLevel();
});
```

drillReset(fieldId)

fieldIdfield Id

fieldId: Number, String

```
report.drillReset();
```

Agency Region

```
report.drillReset('Agency Region');
```

IDAgency Region

```
report.drillReset(1);
```

timeSlider(from, to, chartId)

fromtoID

from: Number

to: Number

chartId: Number, String

ID

August 201420148November 2014201411

```
//Create the date objects for the days we care about and get their time values
let fromDate = new Date('2014-08-01').getTime();
let toDate = new Date('2014-11-01').getTime();
report.timeslider(fromDate, toDate);

//Set the slider value based on the ChartUUID
let fromDate = new Date('2014-08-01').getTime();
let toDate = new Date('2014-11-01').getTime();
report.timeslider(fromDate, toDate, '0b808dd1-2114-42bc-a358-5fe7bf2ec052');
```

unitSelection(unit, chartId)

ID

unit: String

- MILLSECOND
- SECOND
- MINUTE
- HOUR
- DAY
- WEEK
- MONTH
- YEAR

MONTH

```
report.unitSelection('MONTH'); //No chart Id passed so the default chart will be used

let chartUUID = 'b779c293-a8ac-44cb-82f5-0c64da385333';


report.unitSelection('MONTH', chartUUID ); //Apply with a specific chart uuid

let chartName = 'Chart One';


repo*rt.unitSelection('MONTH', chartName); //Pass the chart name to determine which chart to use*
```

convertDrillDownToArray()&convertDrillAnywhereToArray()

Array[Object]

- **fieldId**
- **reportId**ID
- **reportKey**
- **reportUUID**UUID
- **templateId**ID
- **value**

2NN

123

- **eventData**
- **matadeta**
  - **reportId**ID
  - **reportUUID**UUID
  - **reportKey**
- **eventName**

seriesSelection

- **series**(Array[Number])ID
- **chartId**ID

sort

- **fieldId**
- **sortDirection**ASCENDINGDESCENDING

reportStart

reportComplete

registerOutputType

```
{ //Example Empty Dataset
        8399975157147:  [//A random ID for the output type
              [] //Report Dataset data
       ]
}
```

assistedInsightsRequestedByChart

useDefaultAssistedInsightsPanelfalserunAssistedInsights

eventDatarunAssistedInsights

eventData

- categoryField
- categoryFieldId
- categoryKey
- dashboardName:
- dashboardUUID: UUID
- metricDescription
- metricField
- parentReportId: ID
- possibleValuesvalue 1
- reportKey
- sourceIdparentReportID
- typeexplaincompare
- value1
- value2
- viewIdparentReportID

```
reportAPI.addListener('assistedInsightsRequestedByChart', chartData => {

// This already contains all of the data we need to run Assisted Insights so we don’t need to make any additional changes to it

let newData = Object.assign({}, chartData.eventData);

let promise = this.reportAPI.runAssistedInsights(newData);

});
```

assistedInsightsStarted

runAssistedInsights

```
reportAPI.addListener(assistedInsightsStarted, () => {
console.log(“Assisted Insights has started”);
};
```

compareValuesSelected

eventData

- value1{StringNumber}: value oneopenComparePanelvalue/rawValue
- valueOneFormatted{StringNumber}: value oneopenComparePaneldescription/formattedValue
- value2{StringNumber}: value twonopenComparePanelvalue/rawValue
- valueTwoFormatted{StringNumber}: value twoopenComparePaneldescription/formattedValue

```
this.reportAPI.addListener('compareValuesSelected', event => {
let comparisonValues = event.eventData;
// Combine them with the existing Assisted Insights data
let allData = Object.assign({}, assistedInsightsData, comparisonValues);
// Generate the assisted insights report
reportAPI.runAssistedInsights(allData);
});
```

assistedInsightsInProgress

eventData

- UUIDcancelAssistedInsights

UUIDUUIDrunAssistedInsights promiseassistedInsightsCompleted ID

```
reportAPI.addListener(‘assistedInsightsInProgress’, event => {
let assistedInsightsTaskUUID = event.eventData;
reportAPI.cancelAssistedInsights(assistedInsightsTaskUUID);
});
```

assistedInsightsUpdate

eventData

- progressText{String}:
- state{String}:

```
reportAPI.addListener(‘assistedInsightUpdate’, event => {

let progressData = event.eventData;

let customLoader = document.getElementById("myCustomLoader").

customLoader.innerHTML(progressData.progressText);

});
```

assistedInsightsCompleted

runAssistedInsightsprocess

runAssistedInsights promise

eventData

- assistedInsightsReportId{Number}: IDdeleteTemporaryAssistedInsightsReport
- chartData{Object}:
    - assistedInsightsImage{base64 String}:
    - assistedInsightsZoomedImage{base64 String}:
    - chartId{Number}: ID
    - narratives{Array}:

```
reportAPI.addListener('assistedInsightsCompleted', data => {

// Display the report results

reportAPI.displayAssistedInsightsData(data.eventData);

});
```

assistedInsightsCancelled

cancelAssistedInsights

eventData

UUID

```
reportAPI.addListener('assistedInsightsCancelled', event => {
console.log("Task " + event.eventData + " has been cancelled");
});
```

assistedInsightsError

eventData

- getMessageText{function}:

```
reportAPI.addListener('assistedInsightsError', event => {
console.log(event.eventData.getMessageText());
});
```

assistedInsightsExceptionError

eventData

- errorMessage:

```
reportAPI.addListener('assistedInsightsExceptionError', event => {
console.log(event.eventData.errorMessage);
});
```

drilldown

- **fieldId**
- **added**(Array)
- **drillState**(Array)convertDrillDownToArray

drillanywhere

- **added**(Array)
- **drillState**(Array)convertDrillAnywhereToArray

drillUp

- **removed**(Array)
- **drillState**(Array)convertDrillAnywhereToArrayconvertDrillDownToArray

reportRunAlreadyInProgress

```
report.addEventListener("reportRunAlreadyInProgress", function() {
alert("report is already running");
});
```

resetDrill

- **removed**(Array)
- **drillState**(Array)convertDrillAnywhereToArrayconvertDrillDownToArray

reset

slider

- **from**(Number)
- **To**(Number)
- **chartId**(Number)

unitSelection

- **unit**(String)
- **chartId**(Number)