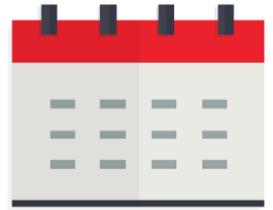


# ArtfulBits Master Calendar Web Part

*for Microsoft® SharePoint®*



## User Guide

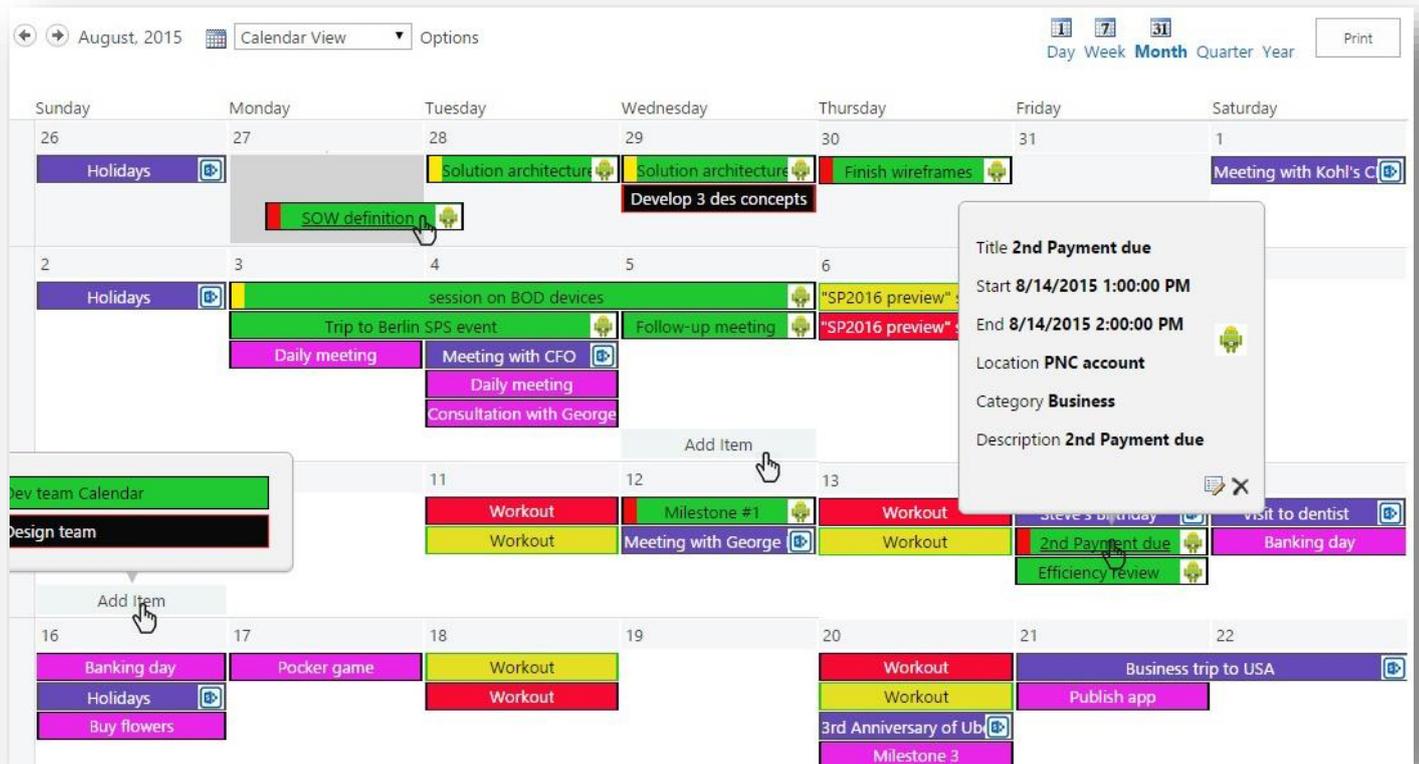
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## Overview

ArtfulBits Master Calendar Web Part provides with the following key benefits:

- **Multisource support.** ArtfulBits Master Calendar collects events from SharePoint Lists of any type, from any SharePoint site, in one Calendar view.
- **Multiple data sources.** ArtfulBits Master Calendar provides four data source types: SharePoint List, SQL Database, Google Calendar and Outlook Calendar (cloud based or on premise).
- **Multiple views.** This feature includes the following views: day, week, month, quarter, year and Gantt.
- **Using different colors for events.** ArtfulBits Master Calendar allows specifying different color sets for different event sources and specify different colors for different event types
- **Customizable tooltip.** It is possible to retrieve essential information and display it in the customizable tooltip when the user hovers over events.
- **Permissions.** Different data sources can be visible to different users or groups based on the settings specified for the data sources.
- **Chronologically list events from all calendars.** Calendar Rollup feature chronologically list events, including their descriptions such as event type, recurrences and location from all calendars, enabling users to quickly see and understand events in one area from an unlimited number of sources for events created. Exceeds SharePoint original OOTB limit of 10 overlay calendars.
- **On-the-Fly AJAX-enabled features,** including adding, editing, dragging, and deleting events in Outlook 2013 like style.
- **Print Calendar Events.** A print feature allows user to easily print any calendar view (Day, Week, Month, Agenda and Gantt filtered views)
- **Save to PDF**



ArtfulBits Master Calendar Web Part is user friendly and has simple interface (as standard SharePoint calendar), allowing users to easily create new calendar events with a single click! Editing features make working with SharePoint easy and pleasant. To change the date of an event, you simply drag and drop it to the appropriate calendar cell. Useful addition is the customizable extended tooltip that allows tracking selected event's properties.

## Feature List

Feature	SharePoint Foundation 2013	SharePoint Server 2013
Aggregating events from multiple SharePoint lists, from any site, in one Calendar view	✓	✓
Supporting any SharePoint list type (not only Calendar list) on any location	✓	✓
Binding to SQL	✓	✓
Binding to Outlook (cloud based or on premise)	✓	✓
Binding to Google Calendar	✓	✓
Chronologically list events from all calendars	✓	✓
Multiple views: day, week, month, quarter, year, Gantt	✓	✓
Progress value for events from SQL and SharePoint Calendars	✓	✓
On-the-Fly events dragging and dropping, editing	✓	✓
Adding and deleting events with a single click	✓	✓
AJAX support (adding, editing, dragging, and deleting)	✓	✓
User permissions for Calendar sources	✓	✓
Calendar source filtering tooltip	✓	✓
Customizable extended tooltip for events	✓	✓
Color customization for source list events (Background color, Text color, Border color, Progress Bar color)	✓	✓
Icons can be attached to the events and tooltips based on the data source	✓	✓
Stickers for events	✓	✓
Stickers coloring accordingly to event column values	✓	✓
Quick date navigation (using cross-browser Date & Time picker)	✓	✓
Print Calendar Events	✓	✓
Save view to PDF	✓	✓
Cross-browser support (IE8+, Mozilla Firefox, Opera, Google Chrome, Safari)	✓	✓
Calendar resizing support to fit your web site's design	✓	✓
Language pack support (desired localization could be added by request)	✓	✓

## Why ArtfulBits Master Calendar Web Part?

ArtfulBits Master Calendar Web Part can be used instead of built-in SharePoint Calendar. It provides the powerful capabilities for much more convenient events manipulation and team collaboration.

## How to Use

ArtfulBits Master Calendar can show items from simple list in Calendar view or combine items from several SharePoint lists. The list of any type is supported and it could be placed into any site on any location.

Master Calendar

Available Data Sources

Dev team Calendar	Edit	Delete	Disable
Design team	Edit	Delete	Disable
Leasure	Edit	Delete	Disable
Vintage dates	Edit	Delete	Disable
Team Leader Tasks	Edit	Delete	Disable
Due Dates	Edit	Delete	Disable

Create Data Source    Go back

Calendar View    Options

Monday 27    Wednesday 29

Thursday 3    Friday 5

Refresh

- Dev team Calendar
- Design team
- Leasure
- Vintage dates
- Team Leader Tasks
- Due Dates

Consultation with George

## Data Source

Data source title  
Design team

Adapter type  
SharePoint List

Manually type Web URL

Site  
Mcldr

List  
Design team

List View  
Calendar

## Column Mapping

Start date    Start Time

End date    End Time

Title    Title

Description (optional)    Description

Location (optional)    Location

Category (optional)    Category

Progress % (optional)    ---

## Appearance

Data source color

Text color

Border color

Progress bar color

Test event

Progress bar

Icon url

Icon position  
Left

Tooltip template (HTML markup supported). Insert or type in column names manually to display specific column values. Special keys are: [[TITLE]], [[START]], [[END]], [[LOCATION]], [[DESC]], [[CATEGORY]], [[PROGRESS]]

---

```
<div>
  <p> Title <b>[[TITLE]] </b></p>
  <p> Start <b>[[START]] </b></p>
  <p> End <b>[[END]] </b></p>
  <p> Location <b>[[LOCATION]] </b></p>
  <p> Category <b>[[CATEGORY]] </b></p>
```

## Stickers

Color    Category

Add

## Permissions

Visible to only users or groups specified below

Save    Cancel

You can navigate to **Calendar Settings** panel by the following way:

Click "Edit" → Choose Calendar web part (checkbox) → click "Web Part properties" → click "Configure Master Calendar"

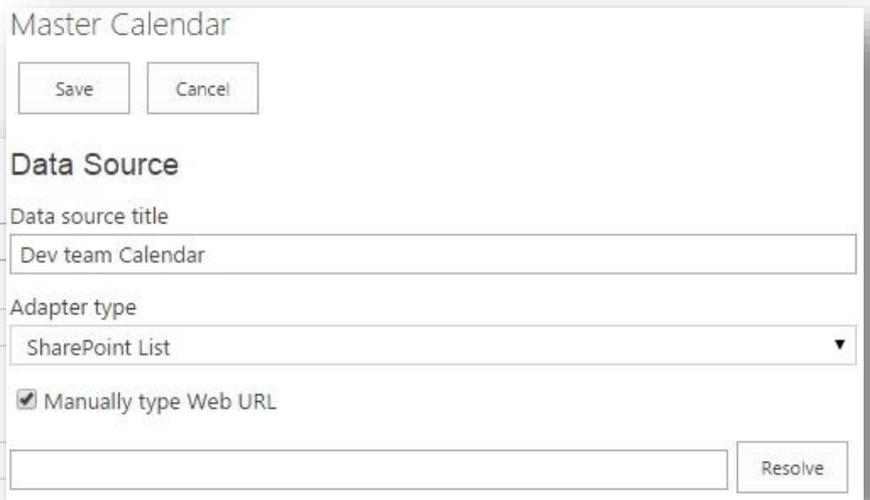
On **Calendar Settings** panel, you can add new Calendar source to Calendar view or edit existing Calendars. With the **Enable/Disable** button you can temporarily disable data sources without deleting them. Each data source can be named and colored. **Go Back** button opens the Calendar view. If you want to add a new data source, click on **Create Data Source**

## Data Sources

In order to add new data source to the calendar view, go to the Web Part settings and click " **Create Data Source** " under "Calendar sources in view:" box. Data source can be set and configured in Calendar Source Picker dialog appeared. Firstly, the title of data source should be specified. Afterwards, you can specify its type (**adapter type**). ArtfulBits Master Calendar provides four data source types: SharePoint List, SQL Database, Google Calendar and Outlook Calendar.

## SharePoint list:

On ArtfulBits Master Calendar Source Picker page choose site from current site



The screenshot shows the 'Master Calendar' dialog box with the 'Data Source' section expanded. The 'Data source title' is 'Dev team Calendar', the 'Adapter type' is 'SharePoint List', and the 'Manually type Web URL' checkbox is checked. A 'Resolve' button is visible at the bottom right of the dialog.

## Data Source

Data source title

Design team

Adapter type

SharePoint List

Manually type Web URL

Site

Mcldr

List

Design team

List View

Calendar

collection or select **Manually type Web URL** and type full path to get site from external site collection (ex. *http://server:port/sites/testsite*) and click

**Resolve** button.

Filtering by list view is supported as well:

**Site:** All sites from current site collection are displayed in this box. Choose site, where the list with calendar data is located. You can manually enter site URL of current Web application.

**List:** All lists from selected site are displayed here.

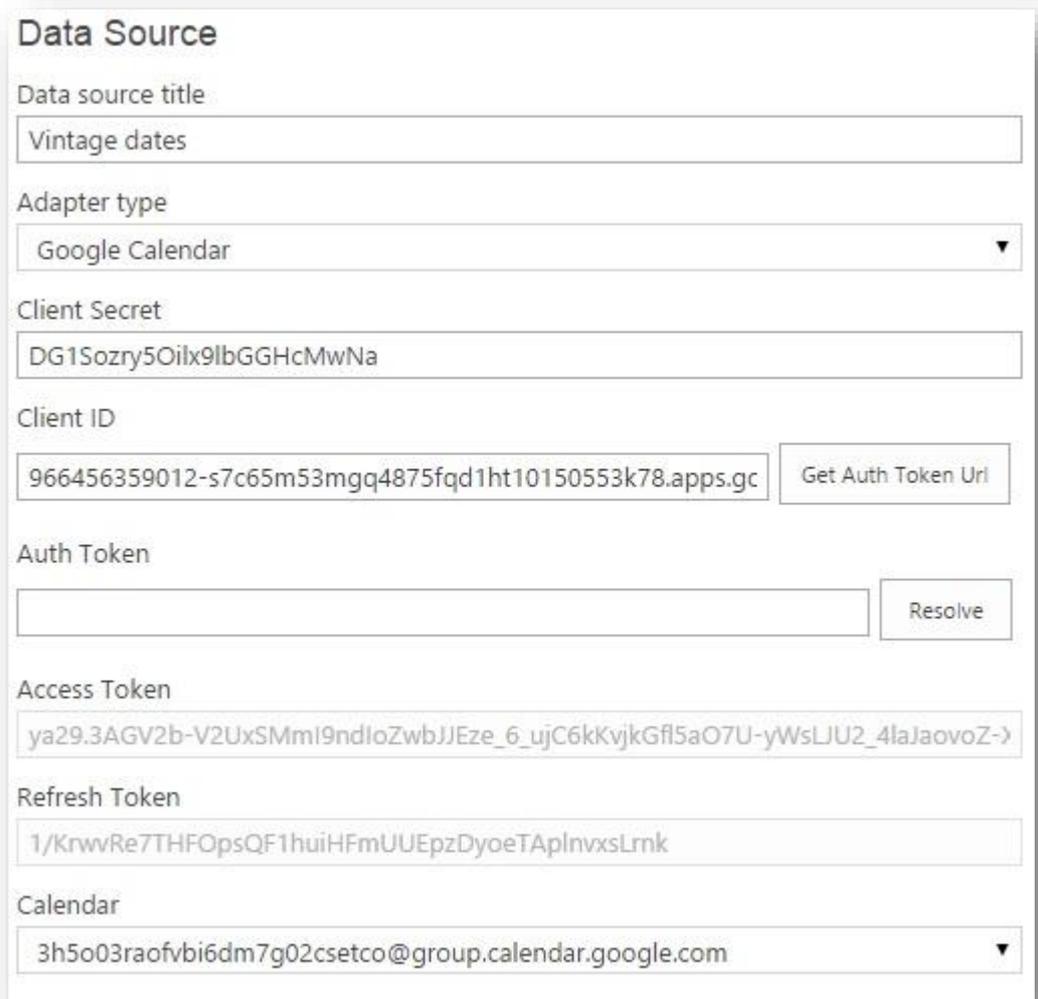
**List View:** Choose list view of selected list. Only items from selected list view will be shown in Calendar.

Start Date, End Date and Title columns are required. Description, Location, Category and Progress are optional. See "[Calendar Event Coloring](#)" and "[How to customize event tooltip?](#)" sections to customize Calendar color and tooltip settings.

### Google Calendar:

In order to add new Google Calendar data source, do the following:

1. Open Google Dev Console
2. Create Project for your app -> name it -> save
3. API & auth-> APIs (choose "Calendar API", click on it and then enable this API on its page)
4. API&Auth -> Credentials -> Add Credentials -> OAuth 2.0 client ID ("other" radio button) -> Create (Google Dev Console is often modified, so the specific names of the buttons can be different). It will generate Client ID and Client Secret
5. Open ArtfulBits Master Calendar Source Picker page
6. Insert Client ID and Client Secret in the corresponding fields on SP Calendar
7. Click Get Auth Token Url



The screenshot shows a 'Data Source' configuration form with the following fields and values:

- Data source title:** Vintage dates
- Adapter type:** Google Calendar
- Client Secret:** DG1Sozry5Oix9lbGGHcMwNa
- Client ID:** 966456359012-s7c65m53mgq4875fqd1ht10150553k78.apps.gc
- Auth Token:** (Empty field with a 'Resolve' button)
- Access Token:** ya29.3AGV2b-V2UxSMmi9ndloZwbJJEze\_6\_ujC6kKvjKgf5aO7U-yWsLJU2\_4laJaovoZ->
- Refresh Token:** 1/KrwwRe7THFOpsQF1huiHFmUUEpzDyoeTApInvxslrnk
- Calendar:** 3h5o03raofvbi6dm7g02csetco@group.calendar.google.com

8. Copy url and paste into browser, click Enter
9. Copy Auth token from the browser and paste into SP Calendar
10. Click Resolve

**OAuth client**

Here is your client ID

966456359012-gnptgt878mh8iv7u5m00fsardukug0cl.apps.gi

Here is your client secret

X94a\_n0ytV-BKV1JN7No8bv

**OK**

Google Developers Console Calendar Val ▾

Home

Permissions

**APIs & auth**

APIs

**Credentials**

Push

Monitoring

Source Code

Deploy & Manage

Compute

Networking

Storage

Big Data

←

**Create client ID**

**Application type**

Web application

Android [Learn more](#)

Chrome App [Learn more](#)

iOS [Learn more](#)

PlayStation 4

Other

**Create** **Cancel**

Start Date, End Date and Title columns are required. Description, Location, Category and Progress are optional. See "[Calendar Event Coloring](#)" and "[How to customize event tooltip?](#)" sections to customize Calendar color and tooltip settings.

### Exchange Calendar:

1. Open ArtfulBits Master Calendar Source Picker page
2. Click on 'Create Data Source'
3. In Adapter type choose 'Exchange'
4. Type in your Server URL (EWS endpoint):  
E.g. for Outlook on premise [outlook.company.com/.../exchange.asmx](https://outlook.company.com/.../exchange.asmx)  
E.g. for Outlook from Office365

**Master Calendar**

**Save** **Cancel**

**Data Source**

Data source title

Team Leader Tasks

Adapter type

Exchange ▾

Server Url

https://outlook.office365.com/ews/exchange.asmx

Domain (optional)

Login

gmaly@artfulbits.onmicrosoft.com

Password

.....

<https://outlook.office365.com/ews/exchange.asmx>

5. Provide your corresponding login and password
6. It is possible to log in to Outlook on premise by 2 methods:
  - SQL method: SQL login and password
  - Windows authentication: Domain/Login/Password
7. For Outlook from Office365 just provide your login and password
8. Click Save

Start Date, End Date and Title columns are required. Description, Location, Category and Progress are optional. See "[Calendar Event Coloring](#)" and "[How to customize event tooltip?](#)" sections to customize Calendar color and tooltip settings.

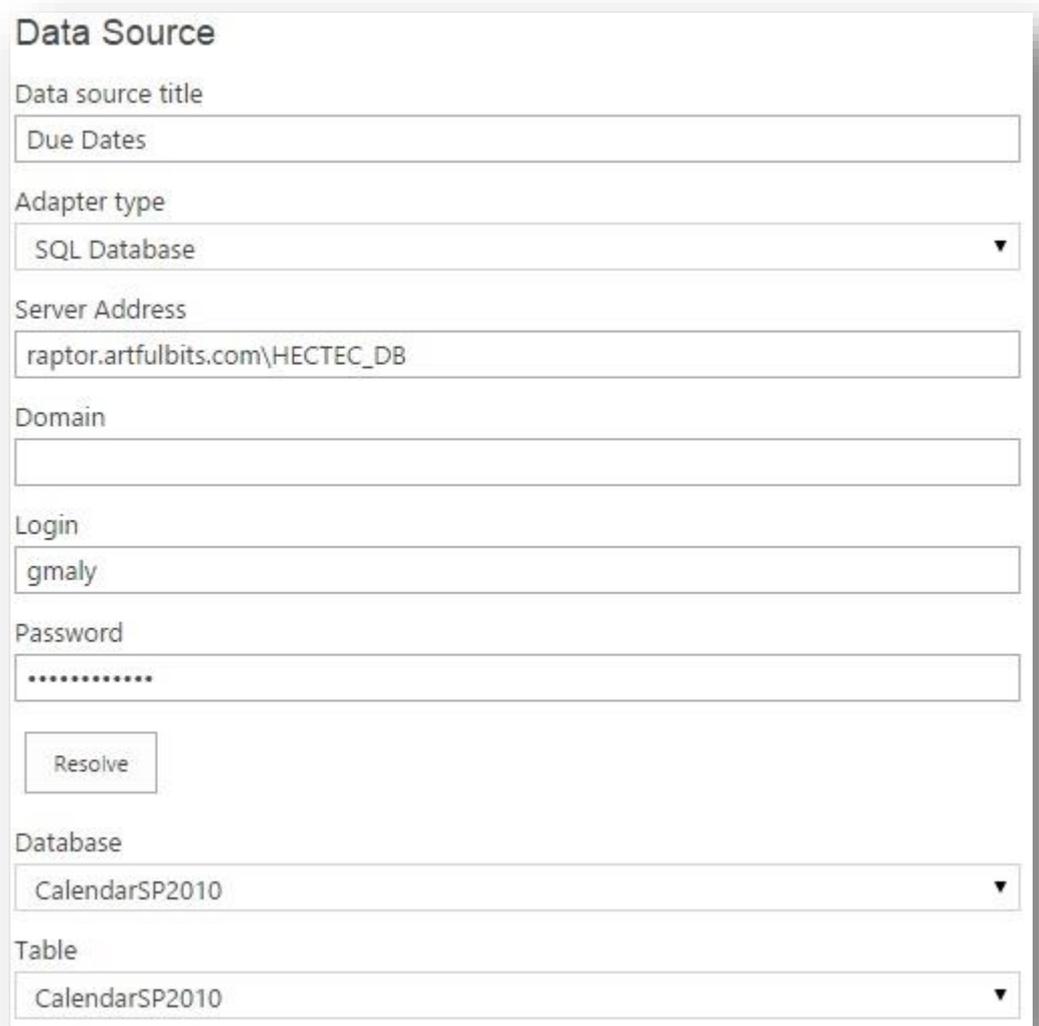
### SQL DB:

1. In Adapter type choose 'SQL Database'
2. Type in Server Address: (E.g.: server\_name\database\_name)
3. Indicate your login and password
4. Click Resolve
5. Choose your Database (E.g.: CalendarSP2010) and Table (E.g.:EventTableNumber)
6. In Column Mapping set all items in dropdown similar like in your table

**Server Address:** your SQL-server's address and login credentials.

**Database Name:** If information provided is correct, the list of databases will be shown here.

**Table name:** Choose the table with calendar data.



**Data Source**

Data source title  
Due Dates

Adapter type  
SQL Database

Server Address  
raptor.artfulbits.com\HECTEC\_DB

Domain

Login  
gmaly

Password  
.....

Resolve

Database  
CalendarSP2010

Table  
CalendarSP2010

## How to customize events tooltip?

ArtfulBits Master Calendar provides an extended tooltip mode (HTML markup supported).

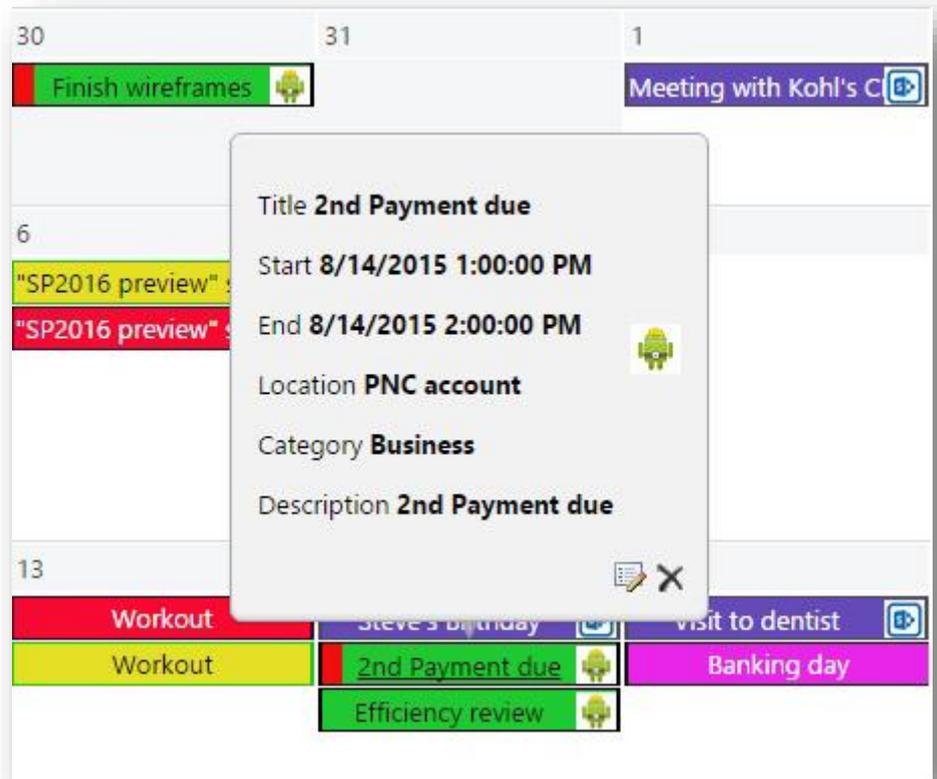
The data that can be provided in the tooltip is the following:

TITLE, START, END, LOCATION,  
DESCRIPTION, CATEGORY, PROGRESS

Google Calendar and Outlook have a limitation- they data for the PROGRESS column is not provided there.

In order to customize the tooltip, do the following:

- 1) In Column Mapping choose the corresponding columns
- 2) In Tooltip template choose data types from drop down list, or use the following keys for your html formatted text:  
[[TITLE]], [[START]], [[END]],  
[[LOCATION]], [[DESC]],  
[[CATEGORY]], [[PROGRESS]]



E.g.:

<div>

```
<p> Title <b>[[TITLE]] </b></p>
```

```
<p> Start <b>[[START]] </b></p>
```

```
<p> End <b>[[END]] </b></p>
```

```
<p> Location <b>[[LOCATION]] </b></p>
```

```
<p> Category <b>[[CATEGORY]] </b></p>
```

```
<p> Description <b>[[DESC]] </b></p>
```

</div>

Tooltip template (HTML markup supported). Insert or type in column names manually to display specific column values. Special keys are: [[TITLE]], [[START]], [[END]], [[LOCATION]], [[DESC]], [[CATEGORY]], [[PROGRESS]]

---

```
<div>
  <p> Title <b>[[TITLE]] </b></p>
  <p> Start <b>[[START]] </b></p>
  <p> End <b>[[END]] </b></p>
  <p> Location <b>[[LOCATION]] </b></p>
  <p> Category <b>[[CATEGORY]] </b></p>
  <p> Description <b>[[DESC]] </b></p>
</div>
```

## Calendar Event Coloring and Labelling

ArtfulBits Master Calendar Web Part provides three ways to customize background and text color for calendar events:

### 1) Appearance of the event in the Calendar.

There are 4 elements for which a color can be chosen:

- Data Source Color (*background color for all events of the particular data source*)
- Text Color
- Border Color
- Progress Bar Color

The changes of the color for these 4 elements influence all events of the specific data source. In order to differentiate events of some data source, it's possible to use stickers:

### 2) Stickers for Events

It's possible to provide as many stickers for the Calendar as it is needed. Stickers appears on the left side of the events. In the category field you should provide the category name that should correspond to the chosen color. The value in the category field for stickers should correspond to the value of some of the columns of your data source. E.g.: If your "Location" Column contains such values as "conference room" and "Skype", then you can create 2 stickers for each of these location.

Color	Category
	Business
	Meeting

Add

Another example can be taken from the Category column – you can create a sticker for whatever value you receive.

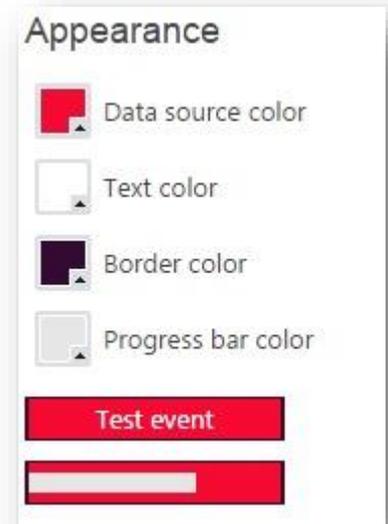
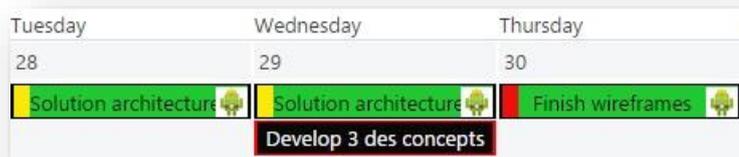
### 3) Labels for events

You can provide labels for events of the particular calendar source.

Labels, once provided, apply to all events of the chosen calendar.

Icon url

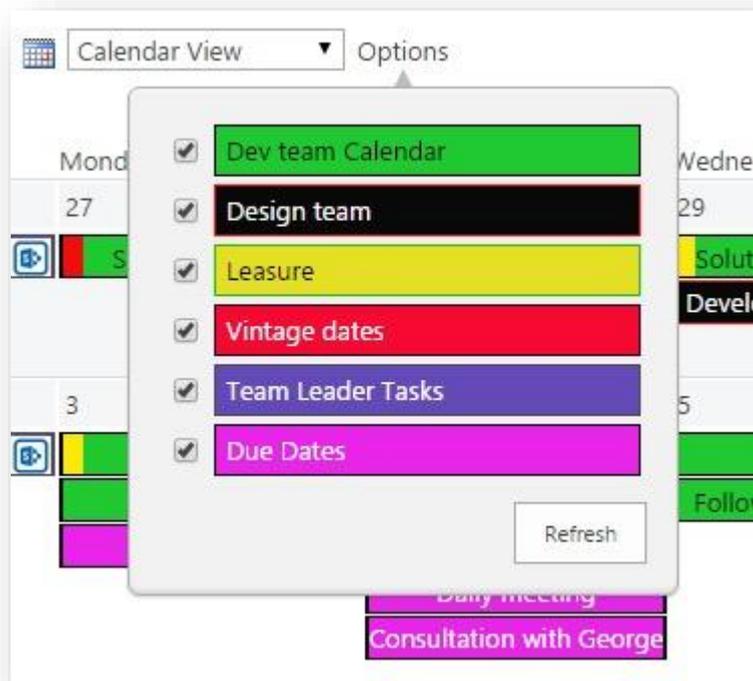
Icon position  
Right ▾



They can be positioned on the right or left side of the events based on your preferences, and they'll also appear on the toolbox.

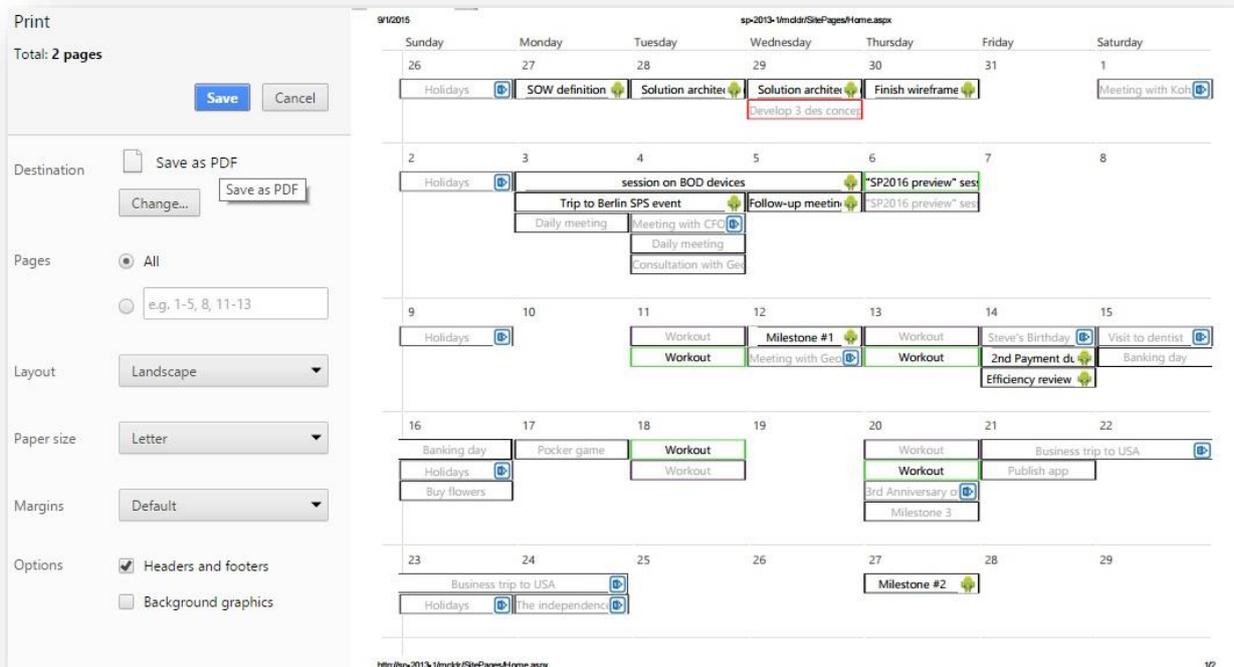
## Calendar Sources Filtering

Filtering data is very simple. It is enough just hover over the "Options" button on the main view of the Calendar, choose the Calendars that you'd like to filter out, and click "refresh":



## Save view to PDF

- 1) Click "Print"
- 2) Under "Destinations" click "Change"
- 3) Choose "Save as PDF"
- 4) Confirm by clicking "Save"



## Release Notes

Version	Notes
v1.0 (September 2, 2015)	<b>Initial Release</b>

## See Also



### [Shopping Cart Web Part](#)

ArtfulBits Shopping Cart is intended to provide ecommerce functionality. This web part provides a possibility to exhibit items for sale, its basic information, photo, price, size, type or category, submit or resend an order and save order in history.



### [Cascaded Lookup Column](#)

Cascaded Lookup Column allows building relationship between parent and child columns, the data selected in one field will determine the options presented in another.



### [Category Column](#)

Category Column allows tracking, organizing and grouping list items. Outlook 2007 approach for elements categorization, easy indicator color changing and using of advanced tooltip, provide a high professional component style.



### [Column Data Adapter](#)

Column Data Adapter is an extension component providing ability to use ArtfulBits Columns in Microsoft Access forms, reports and Microsoft Excel.



### [Column Permissions](#)

Column Permissions allows you to manage access to list content on column level. Permissions can be assigned for individual users and for SharePoint groups as well and are effective in forms and list views, as well as in the SharePoint Alerts, RSS, Datasheet and even during exporting to Excel and opening with Access.



### [Cross-Site Lookup Column](#)

Use Cross-Site Lookup Column for getting data from any site within site collection. Component includes a powerful function of searching over lookup list. This function provides substring matching in selected column which is very useful for large lists (over 50-100 items).



### [Discussion Column](#)

Need to organize well formatted conversation in the list item without enabling list versioning? Discussion Column is the right choice. Component allows entering rich text with formatting, images, tables, hyperlinks and other features.



### [Email Web Part](#)

ArtfulBits Email Web Part allows sending e-mail messages directly from Microsoft SharePoint site. You can notify task assigned users, send gratitude or just send regular e-mail message, etc.



### [Follow-Up Column](#)

Follow-Up Column enables due date flags similar to Outlook follow-up functionality. Applying of flags to the list item allows adding of visual reminder in a natural way.



### [Image Upload Column](#)

Quick and simple way of uploading pictures. Image Upload Column provides with ability to select a picture using file browsing dialog, upload and display it in the list view.

---



### **KPI Column**

KPI (Key Performance Indicator) Column is simple graphical scorecards that can be used to evaluate business data against business goals. With this column you reduce risk to overlook information about the status of value.



### **Link to Document Column**

Link to Document Column allows referencing files and folders placed at Document Library and provides easy and intuitive way to download files directly from column. Use this column to provide a browsing interface that allows users to browse to an object to link to instead of typing a URL.



### **Parent Selector Column**

Parent Selector Column is used for organizing hierarchical relations in SharePoint list. Picker dialog allows choosing data from large lists. Standard Lookup column can be easily converted to Parent Selector column and vice versa.



### **Password Change Web Part**

Password Change Web Part allows users to change their own passwords from within the SharePoint environment using standard text box interface (current password, new password and confirm new password).



### **Password Expiration Web Part**

Password Expiration Web Part enables Active Directory users to be notified via Web Part interface that their passwords are about to expire. It also automatically sends out email notifications to users before the password expiration date.



### **Progress Column**

Progress Column provides users with the ability to make SharePoint lists more visualized by displaying numerical data on the page using percentage-based progress bar. Professional progress bar style will make your SharePoint list really modern and stylish.



### **Video**

Video Column and Video Web Part are powerful controls made for uploading, managing, linking and playing video files. These controls support variety of video files that can be uploaded from computer, or linked from SharePoint library or streamed from direct URL.

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## **Remarks**

Information in this document may be outdated. Please, visit [www.artfulbits.com](http://www.artfulbits.com) for the latest product version.