

# Widgets Overview

Widgets are special mini-applications that can be embedded in a Jedox Web spreadsheet. Technically, they consist of HTML and JavaScript code that is either directly fetched from the API of an external source (such as Google Maps) or — similar to a macro — defined within the application itself.

Some examples of widgets include:

- news ticker that refreshes automatically
- graphic clock
- integrated calendar tool
- map\*

Data can be passed to widgets from the worksheet, and the widget can return data to the worksheet.

## Widget enhancements

Within the Widget HTML code, you can create a hyperlink with the `hyperlink()` function.

You can call the function `macro()` with three possibilities.

Examples of function calls:

```
[crayon-5d5f1d802cd88065461230/]
```

You can call PHP macros with the function `__macro()`. A double array is not necessary for a single macro.

```
__macro(['Module1.foo2', 'bar2'])
```

```
__macro(['Module1.foo2', 'bar2'], ['Module1.foo3', 'bar3'],...)]
```

`bar2` and `bar3` are values that are passed to the macro `foo2` or `foo3`.

The PHP API has the following functions to access some of the features of Jedox from external PHP scripts:

Function	Behavior
<code>jedox_is_logged_in()</code>	TRUE/FALSE if the current user is logged in
<code>jedox_get_username()</code>	Gets the user name of the logged in user
<code>jedox_get_password()</code>	Gets the password of the logged in user
<code>jedox_get_groups()</code>	Gets the groups of the user
<code>jedox_get_locale()</code>	Gets the current locale of the user
<code>jedox_get_theme()</code>	Gets the current theme of the user
<code>jedox_get_sid()</code>	Gets the current session ID of the user

**Note:** as of June 2018, a valid API key and a Google Cloud Platform

billing account are required to access the core Google Maps API, which is required for Jedox reports and widgets that use Google Maps. For more information, see [Google Maps Platform](#).

Related links:

- [Creating a New Widget](#)
  - [Defining Widget Code](#)
  - [Reading and Setting Values in a Worksheet with Widgets](#)
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