

Interactive Mosaic Viewer API (via iframe)

Introduction

Although Picture Mosaics offers a full turn key solution to provide a complete user experience, we understand that there can be the need for the client to have more control over all items surrounding the actual mosaic viewer. For this reason we have a built a straight forward API that allows developers to instantiate and customize the mosaic viewer.

Overview and Summary

The interactive mosaic viewer will be contained in an iframe. A user may have a direct link to a photo (or photos) within the mosaic; if this is the case, when a user clicks a direct link to the mosaic parent page, the GET variables will need to be transferred to the iframe during the instance call. Below is JavaScript code that will need to be included on the parent page used to make this transfer.

For examples purposes, we will use the [Meow Mosaic](#):

The full page can be accessed here:

<http://www.meowmosaic.com>

Example urls with GET vars:

<http://www.meowmosaic.com?key=zoey>

<http://www.meowmosaic.com?key=purr>

<http://www.meowmosaic.com?key=claire@meowmosaic.com>

http://www.meowmosaic.com?key=zoey&box=1*

***Note:** if enabled for the mosaic, the box=1 parameter will enable locator boxes at the desired color/style. Locator boxes are dynamic onscreen boxes placed around all photos that match the current search or key term passed to the mosaic.

So, in the parent url:

[http://www.\[your_domain\].com/\[mosaic_page\]?key=zoey](http://www.[your_domain].com/[mosaic_page]?key=zoey)

The GET var "**key=zoey**" needs to be transferred to the iframe call dynamically on page load/build:

```
<iframe width="935" height="800" src="http://www.meowmosaic.com/?key=zoey" scrolling="no"
frameborder="0" border="0 px"></iframe>
```

Summary of all available GET vars options

Name	Definition	Available States	Default
key	Search term to be performed on mosaic	Any valid ASCII characters passable through the url GET var	<i>null</i>
box	Creates locator boxes on all valid photos in the mosaic. Styling guidelines and templates availed upon request.	0 (off), 1 (on)	1
click	Color of the click boxes. A click box is the box that appears around a photo when a user clicks on a photo in the mosaic at any zoom level.	6 digit hex value	FFFFFF
zinfo	The percentage zoom level where information and additional interaction/share points will appear for that particular clicked photo.	20 ~ 100	100
type	The type viewer/page to be instantiated. See expiation below fro more details.	full, search, viewer	full

Types of instantiations

The Meow Mosaic offers the following three types of mosaic instantiation:

- 1) Full page
- 2) Viewer & Search bar
- 3) Viewer only

The Meow Mosaic is specially built to automatically and dynamically resize to fit a browser window or an iframe. The minimum iframe or window size that is required for this particular mosaic is 760 pixels x 715 pixels. However if just the "Viewer & Search bar" bar or the "Viewer only" are instantiated less height is required.

Full page iframe:

```
<iframe width="935" height="800" src="http://www.meowmosaic.com/?type=full" scrolling="no"
frameborder="0" border="0 px"></iframe>
```

Viewer & Search bar iframe:

```
<iframe width="935" height="640" src="http://www.meowmosaic.com/?type=search"
scrolling="no" frameborder="0" border="0 px"></iframe>
```

Viewer only iframe:

```
<iframe width="935" height="584" src="http://www.meowmosaic.com/?type=viewer"
scrolling="no" frameborder="0" border="0 px"></iframe>
```

Example instantiations using (Javascript)

Below is **JavaScript** code for instantiations (php instantiation is available upon request).

Furthermore, in the last example in this section you will find code that would allow a developer to place a search button, hot links, and other items to dynamically communicate (and search) with the iframed mosaic.

Standard iframe (restrained size) GET variable transfer example code using Viewer & Search bar:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>My Mosaic</title>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <meta name="description" content="" />
    <meta name="keywords" content="" />
    <script type="text/javascript">
      function querySt(ji) {
        hu = window.location.search.substring(1);
        gy = hu.split("&");
        for (i=0;i<gy.length;i++) {
          ft = gy[i].split("=");
          if (ft[0] == ji) {
            return ft[1];
          }
        }
      }
      var key = querySt("key");
      if (!key) {
        key = '';
      } else {
        key = '?key='+key;
      }
    </script>
  </head>
  <body style="height:800px;">

<!-- OPTIONAL HTML PAGE STUFF -->
```

```

<!-- IFRAME MOSAIC VIEWER INSTANCE BEGIN -->
    <div id="pmViewer" style="text-align:center; margin:10px auto;">
        <script type="text/javascript">
            document.write('<iframe src="http://www.meowmosaic.com/'+key+'&type=search"
width="935px" height="800px" frameborder="0" scrolling="no" marginheight="0"
marginwidth="0"></iframe>');
        </script>
    </div>
<!-- IFRAME MOSAIC VIEWER INSTANCE END -->

<!-- OPTIONAL HTML PAGE STUFF -->

    </body>
</html>

```

Full Page iframe (expandable) GET variable transfer example code using Full page:

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>My Mosaic</title>
        <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
        <meta name="description" content="" />
        <meta name="keywords" content="" />
        <script type="text/javascript">
            function querySt(ji) {
                hu = window.location.search.substring(1);
                gy = hu.split("&");
                for (i=0;i<gy.length;i++) {
                    ft = gy[i].split("=");
                    if (ft[0] == ji) {
                        return ft[1];
                    }
                }
            }
            var key = querySt("key");
            if (!key) {
                key = '';
            } else {
                key = '?key='+key;
            }
        </script>
        <style type="text/css">
html {overflow: hidden; background: #000 url("images/backgrounds/optional.jpg") repeat-x;}
html, body, div, iframe {margin: 0px; padding: 0px; height: 100%; border: none;}
iframe {display: block; border: none; width:100%; height:100%; overflow-y:auto; overflow-x:hidden;}
        </style>
    </head>
    <body>

<!-- IFRAME MOSAIC VIEWER INSTANCE BEGIN -->
    <div id="pmViewer" style="text-align:center; margin:10px auto;">
        <script type="text/javascript">
            document.write('<iframe src="http://www.meowmosaic.com/'+key+'&type=search"
marginheight="0" marginwidth="0" width="100%" height="100%" scrolling="auto"></iframe>
');
        </script>
    </div>
<!-- IFRAME MOSAIC VIEWER INSTANCE END -->

    </body>
</html>

```

Dynamic iframe commutation example (search fields, hot links, etc) using Viewer only

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>My Mosaic</title>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <meta name="description" content="" />
    <meta name="keywords" content="" />
    <script type="text/javascript">

      function searchViewer(){
        document.getElementById('pmViewer').innerHTML = '<iframe
src="www.meowmosaic.com/?type=viewer&key=example@email.com"
width="935" height="584" frameborder="0" scrolling="no"
marginheight="0" marginwidth="0"></iframe>';
      }

      function querySt(ji) {
        hu = window.location.search.substring(1);
        gy = hu.split("&");
        for (i=0;i<gy.length;i++) {
          ft = gy[i].split("=");
          if (ft[0] == ji) {
            return ft[1];
          }
        }
      }
      var key = querySt("key");
      if (!key) {
        key = '';
      } else {
        key = '?key='+key;
      }
    </script>
  </head>
  <body style="height:800px;">

<!-- OPTIONAL HTML PAGE STUFF -->

<!-- EXAMPLE BUTTON, SEARCH FIELD, HOT LINK, ETC BEGIN -->
<!-- Note: Below is an example of a simple image/button to perform search -->

  <div style="text-align:center; margin:10px auto;">
    
  </div>

<!-- EXAMPLE BUTTON, SEARCH FIELD, HOT LINK, ETC END -->

<!-- IFRAME MOSAIC VIEWER INSTANCE BEGIN -->
  <div id="pmViewer" style="text-align:center; margin:10px auto;">
    <script type="text/javascript">
      document.write('<iframe src="http://www.meowmosaic.com/'+key+'&type=viewer"
width="935px" height="584px" frameborder="0" scrolling="no"
marginheight="0" marginwidth="0"></iframe>');
    </script>
  </div>
<!-- IFRAME MOSAIC VIEWER INSTANCE END -->

<!-- OPTIONAL HTML PAGE STUFF -->

  </body>
</html>
```