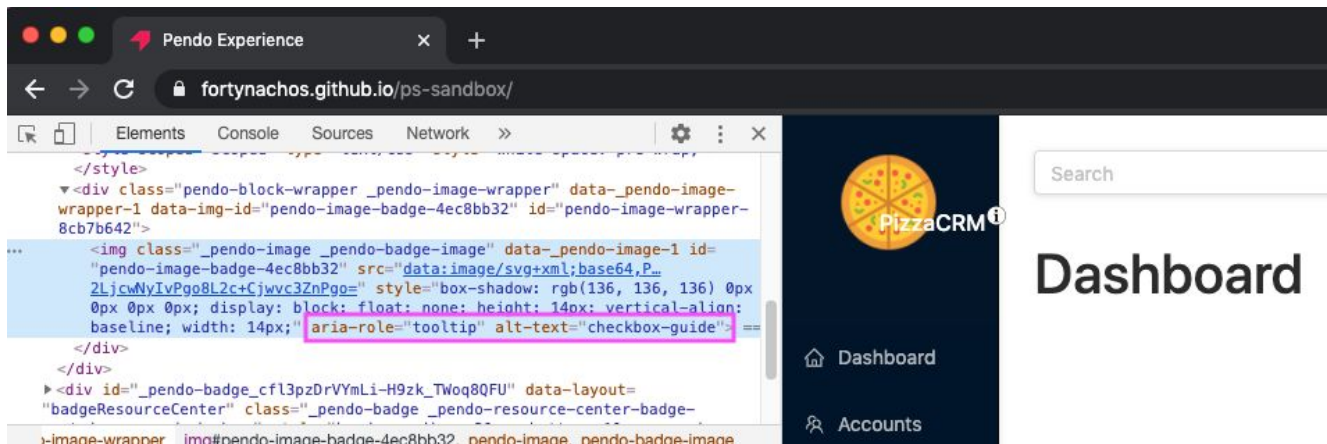# Pendo Snippet Modified for Badge A11y

Last Updated February 9, 2021

When to Use

If you are already using the Pendo Accessibility Beta offering, this modification to the Pendo Snippet will provide additional alt text and aria-role support for Pendo's tooltip badge image icons.

Example:

Note: This code snippet utilizes a [MutationObserver](#), which isn't supported in IE6-10. Additional accessibility functionality will be added in all supported browsers, and unsupported browsers will be unaffected.
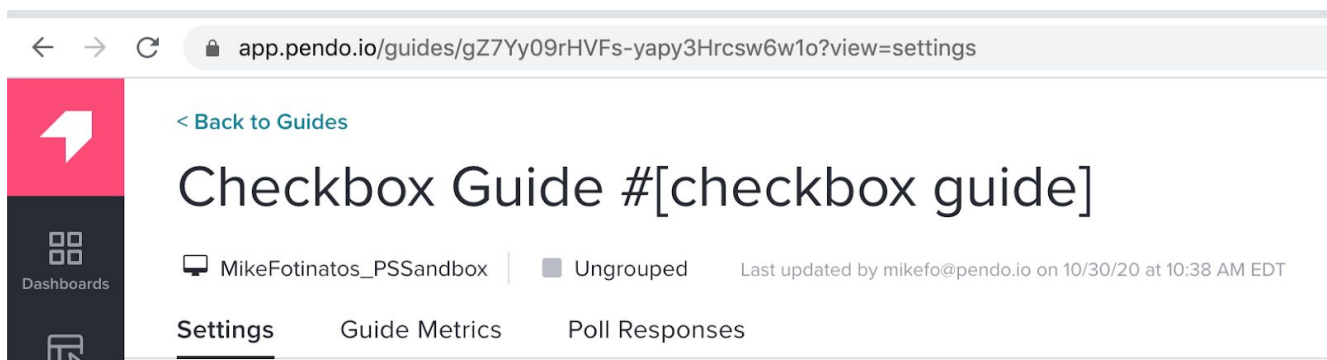
Overview

The Pendo Snippet supports [Agent Events](#), which will allow certain code to be invoked when the Pendo Agent has completed various states of its initialization within your application. This snippet utilizes an agent event to poll the application for any Pendo badge elements added to the page, and upon creating them, add additional HTML attributes that assist with accessibility.

The additional attributes that are created are aria-role which is designated as "tooltip" by default for all guides, and alt text, which can be customized on a per-guide basis.

Customizing alt text

For any Pendo badges on your page, while the snippet is installed, alt text will be added with the following prioritization:

- If the target badge is Pendo Resource Center, the alt text "Resource Center" will be added
- If the target badge is any other image badge, the snippet will look for a special string of characters within any guide name (guide names can be configured within the Pendo UI). If the guide name contains any text encapsulated within "#[ ]" (for example, #[my guide]), then the alt text will become the string within those brackets.
- If no alt text is specified in the name, the default alt text "tooltip-badge" will be added.

Configuring the Snippet

This modified snippet follows the same format as the standard Pendo Snippet. However, after the specified metadata when initializing Pendo in your application, you'll want to add an additional agent event, similar to the code shown below:

```
// Snippet Modification for Accessible Tooltip Badges
// Note: This utilizes a MutationObserver and will not work in IE6-10.
pendo.initialize({
   visitor: {
     id:     your_visitor_id
   },

   account: {
     id:     your_account_id
   },

   events: {
     ready: function () {
     pendo.addBodyMutationListener();
   }
 }
});
```

```javascript
// This will add an aria-role of tooltip for any image badges. Additionally:
//  1) If the badge is the RC, add the alt "Resource Center"
//  2) If the badge has a string in the guide name within #[ ], then make the
//     alt that string
//  3) Otherwise, just default the alt text to "tooltip badge"
pendo.addAltText = function(guideId) {
  var badgeId = pendo.badgesShown[guideId].domJson.children[1].props.id;
  if (pendo.dom("#"+badgeId+ " img")[0]) {
    if(pendo.dom("#"+badgeId+ " img")[0] ){
      pendo.dom("#"+badgeId+ " img")[0].setAttribute('aria-role', 'tooltip');
    }
    var guideName = pendo.guides.filter(elem=>elem.id==guideId)[0].name;
    if (guideName.includes("#[")) {
      var guideNameAltText = guideName.substring(guideName.indexOf("#[")+2, guideName.indexOf("]"));
    }

    if(pendo.guides.filter(elem=>elem.id==guideId)[0].name == "Resource Center") {
      pendo.dom("#"+badgeId+ " input")[0].setAttribute('alt', "Resource Center");
    } else if (guideNameAltText) {
      pendo.dom("#"+badgeId+ " img")[0].setAttribute('alt', guideNameAltText);
    } else {
      pendo.dom("#"+badgeId+ " img")[0].setAttribute('alt', "tooltip badge");
    }
  }
}

pendo.addBodyMutationListener = function() {
  var target = document.querySelector('body');
  var observer = new MutationObserver(function(mutations) {
    mutations.forEach(function(mutation) {
      if (mutation.addedNodes.length) {
        if (mutation.addedNodes[0].className.includes("_pendo-badge")) {
          if (pendo.badgesShown) {
            var badgeList = pendo.badgesShown;
            Object.keys(badgeList).forEach(gid => pendo.addAltText(gid));
          }
        }
      }
    })
  })
  var config = {
    attributeFilter: ['data-layout'],
    attributes: true,
    childList: true,
    characterData: true,
    subtree: false
  };
  observer.observe(target, config);
}
```