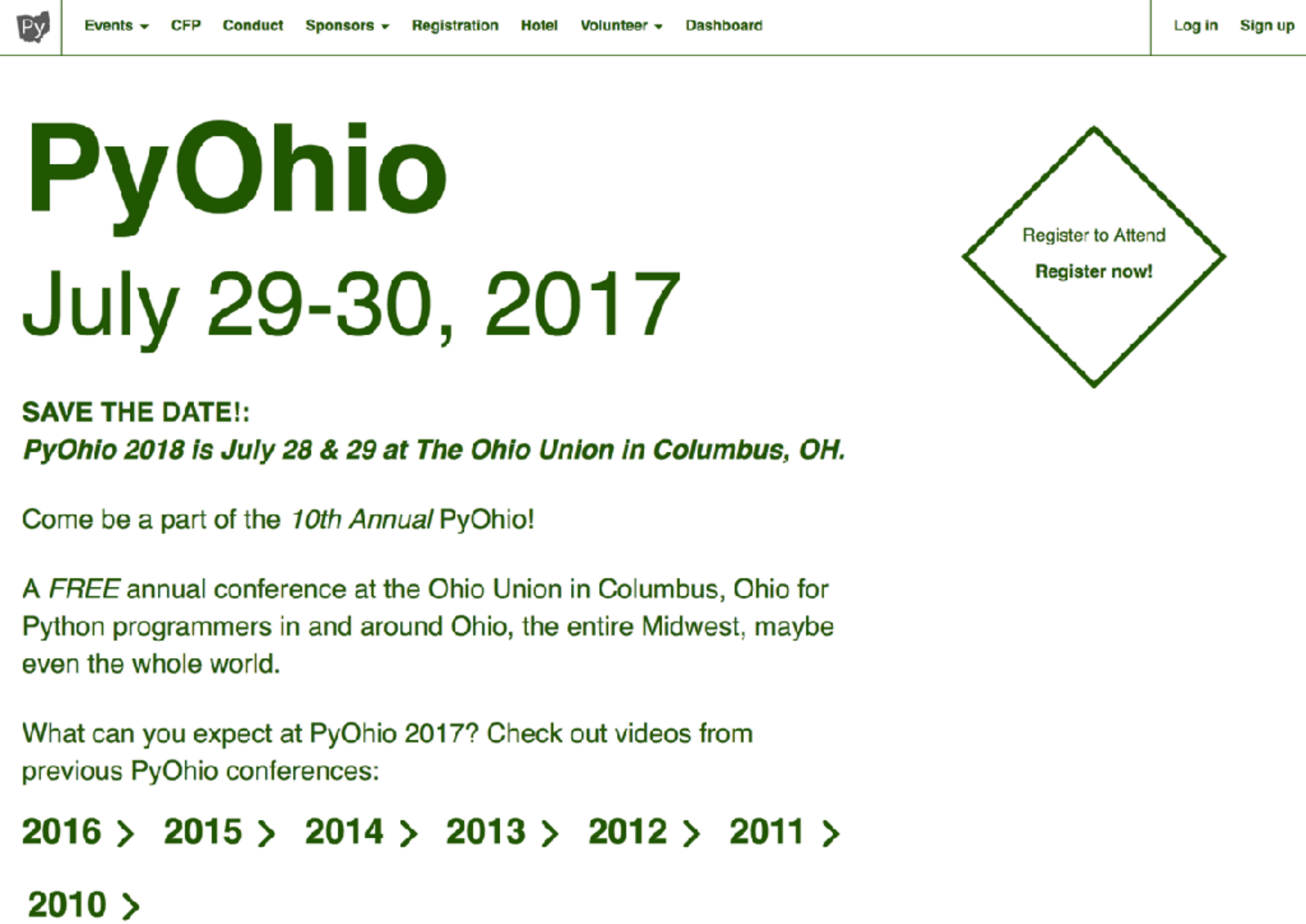
Auditing your site for accessibility: now what?

Caveats

1: Identify



PyOhio

July 29-30, 2017

SAVE THE DATE!:
PyOhio 2018 is July 28 & 29 at The Ohio Union in Columbus, OH.

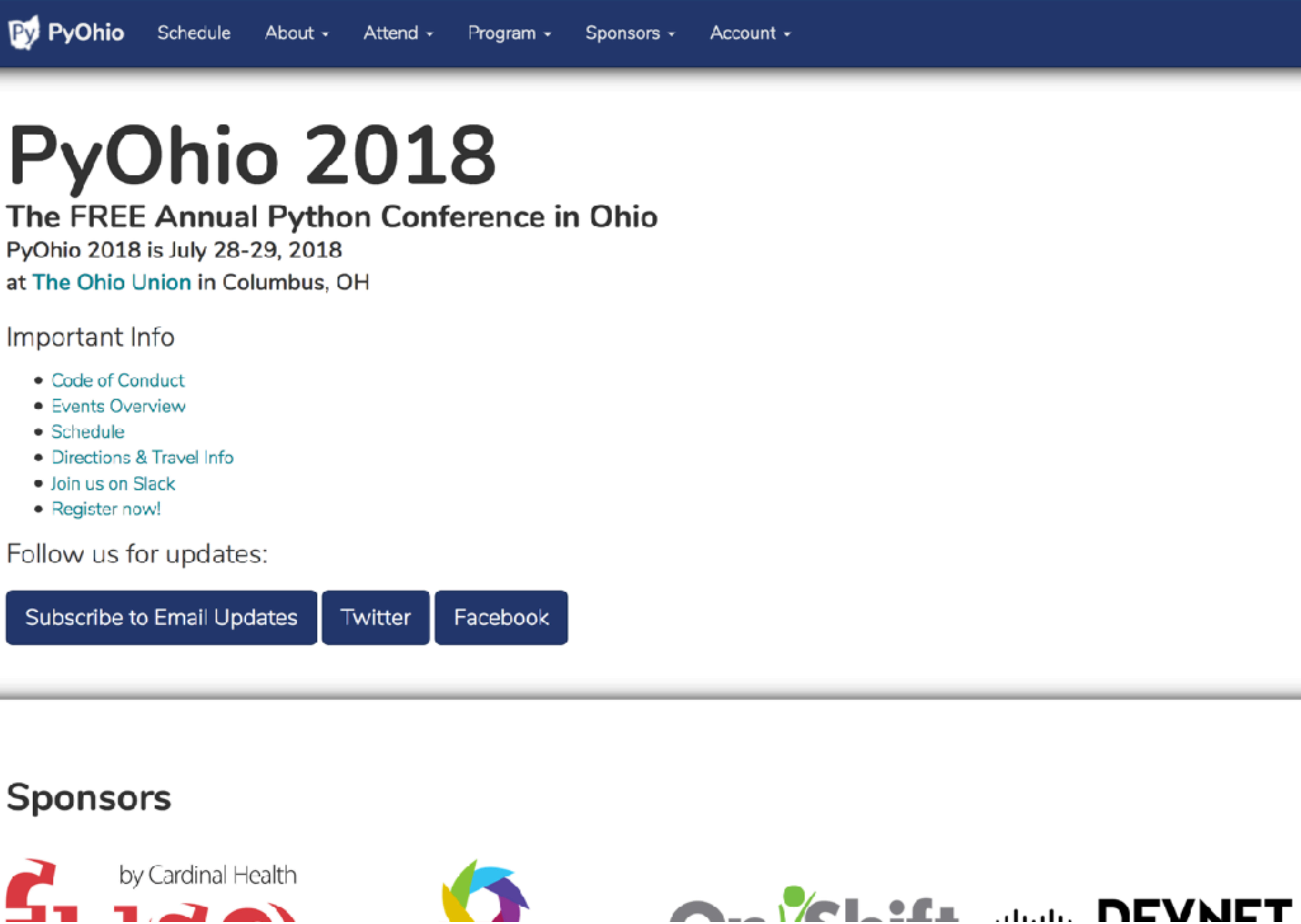
Come be a part of the *10th Annual* PyOhio!

A *FREE* annual conference at the Ohio Union in Columbus, Ohio for Python programmers in and around Ohio, the entire Midwest, maybe even the whole world.

What can you expect at PyOhio 2017? Check out videos from previous PyOhio conferences:

2016 › **2015 ›** **2014 ›** **2013 ›** **2012 ›** **2011 ›**

2010 ›



PyOhio 2018

The FREE Annual Python Conference in Ohio

PyOhio 2018 is July 28-29, 2018
at The Ohio Union in Columbus, OH

Important Info

- Code of Conduct
- Events Overview
- Schedule
- Directions & Travel Info
- Join us on Slack
- Register now!

Follow us for updates:

Sponsors

1: Identify

Quick and easy method - browser extensions

- WAVE
- aXe
- Lighthouse

Automation can only catch about 1/3 of potential accessibility issues

2: Verify

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What kinds of manual tests can we do?

- Keyboard
- Screen reader

2: Verify

What kinds of manual tests can we do?

- Keyboard
- Screen reader
- Browser zoom
- Touch devices

3: Plan

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Many small changes? Organize by page or flow

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Many small changes? Organize by page or flow

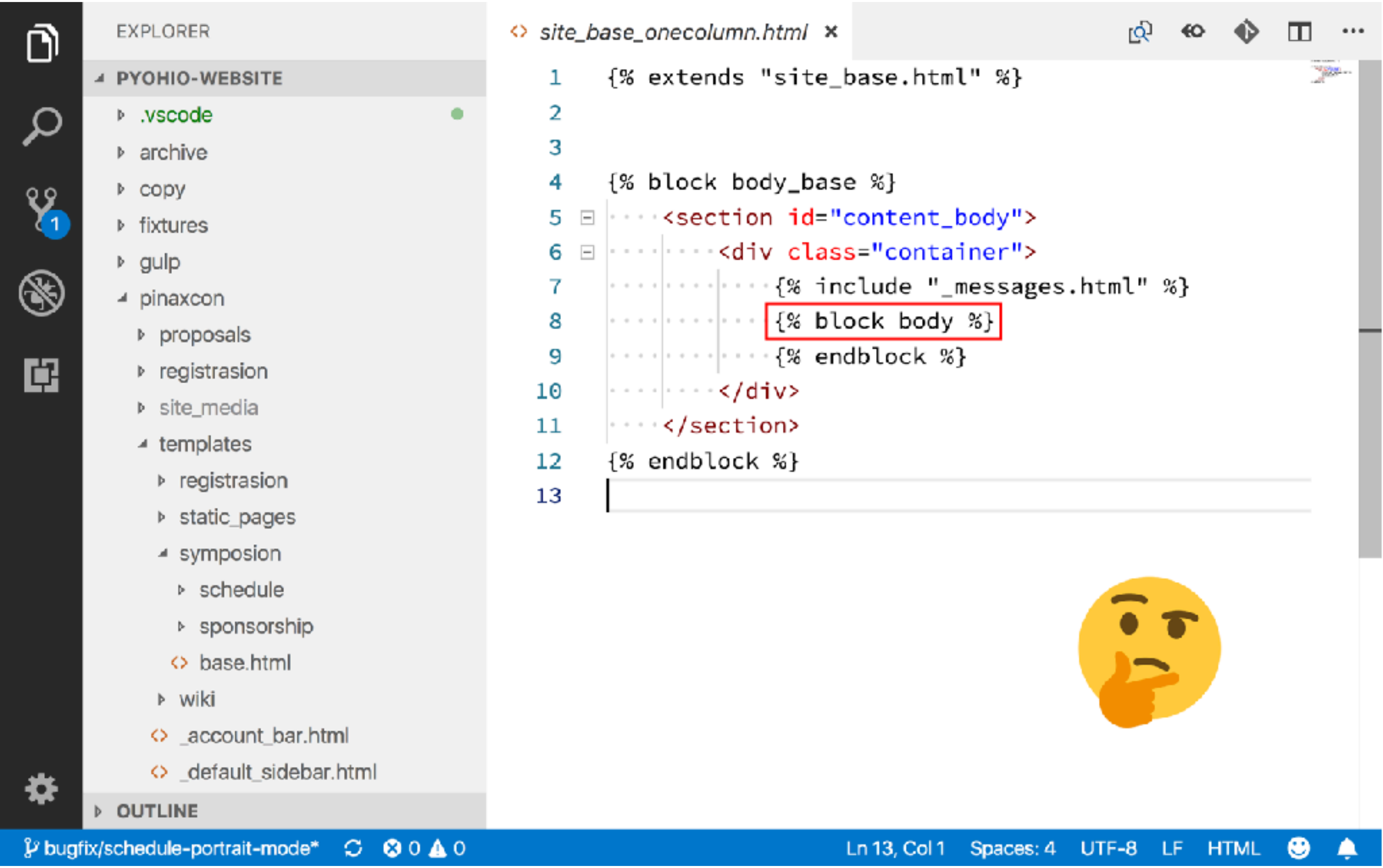
Many large changes? Incremental updates (long-term feature branch)

3: Plan

Set goals per release

- Percentage or numeric value of defects closed
- No regressions in a particular area
- 1+ new thing learned per feature

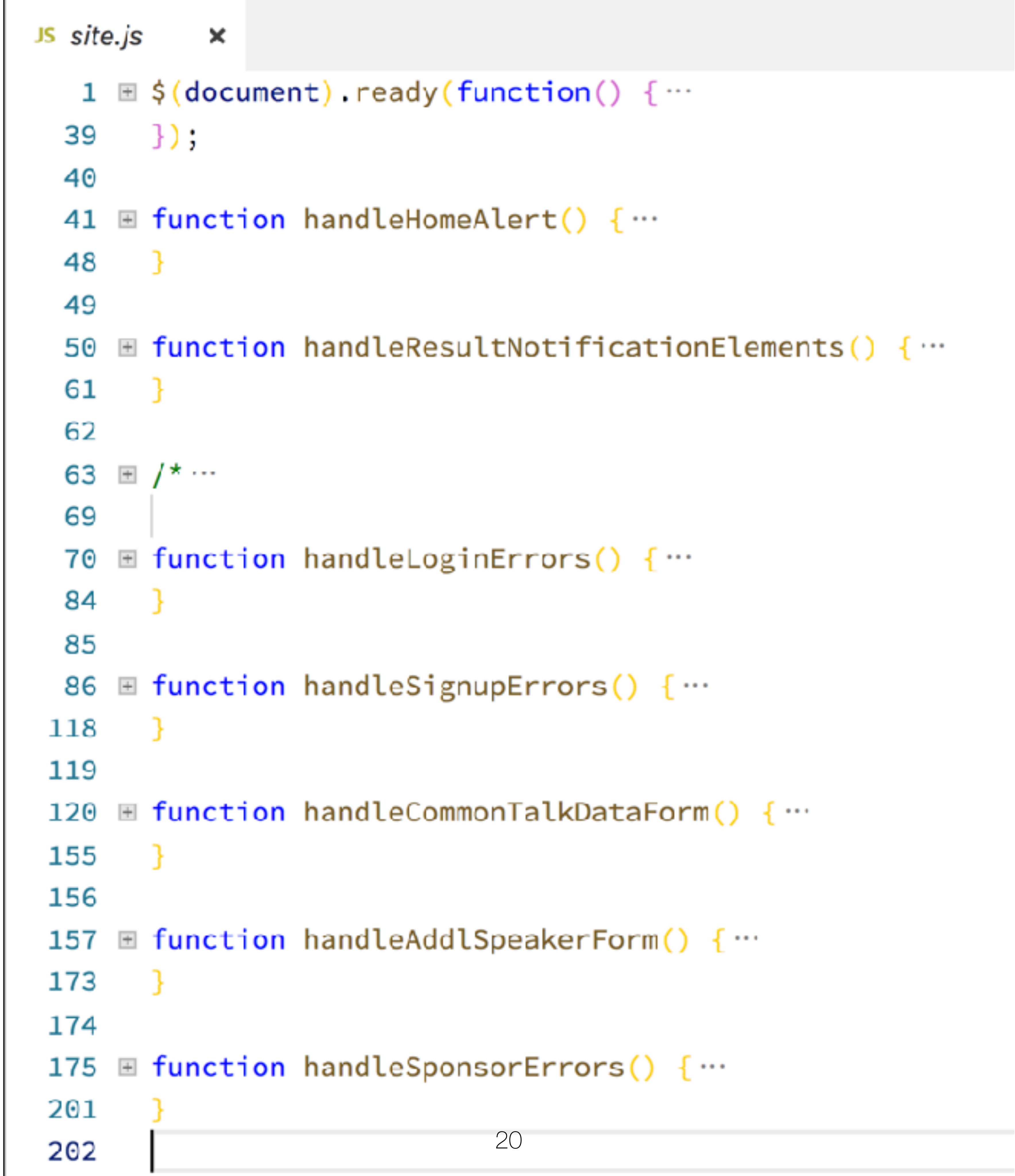
👀



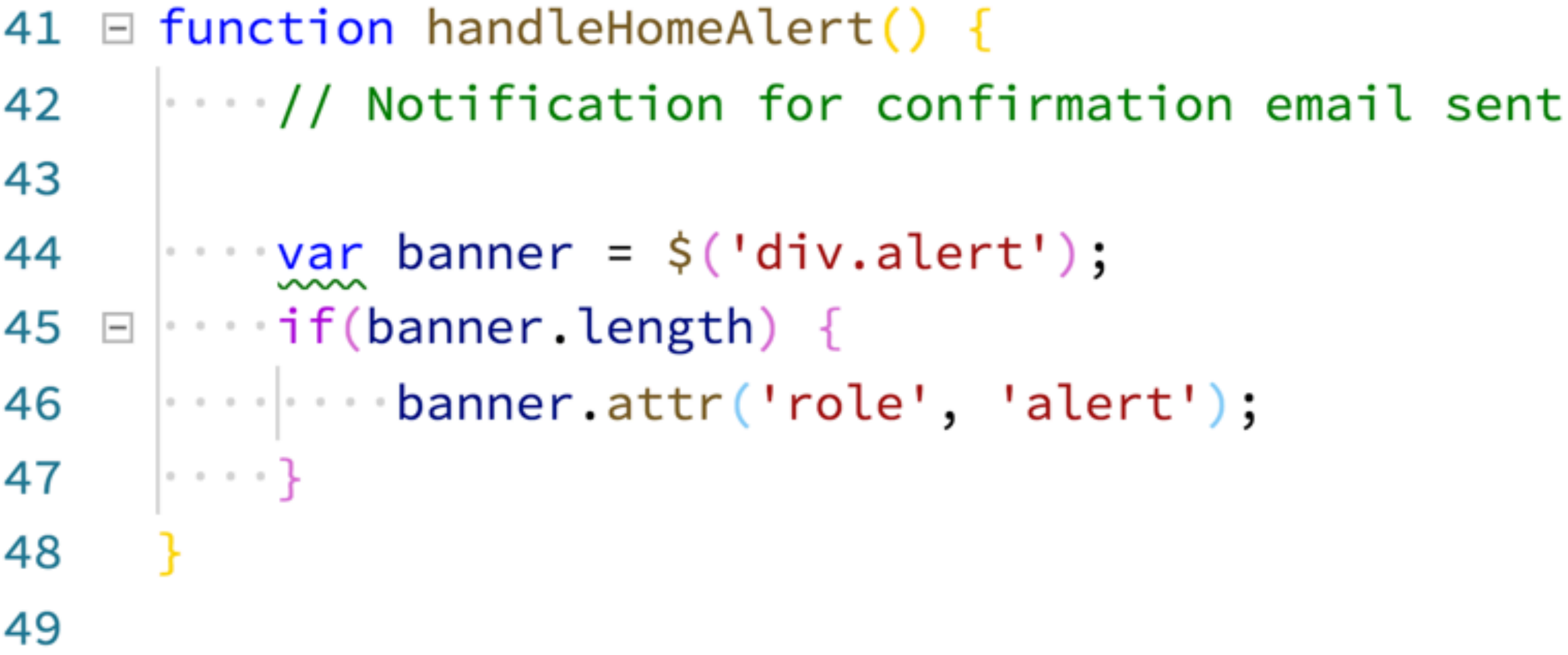
```
{% extends "site_base.html" %}


{% block body_base %}
    <section id="content_body">
        <div class="container">
            {% include "_messages.html" %}
            {% block body %}
            {% endblock %}
        </div>
    </section>
{% endblock %}

```

@katpassen

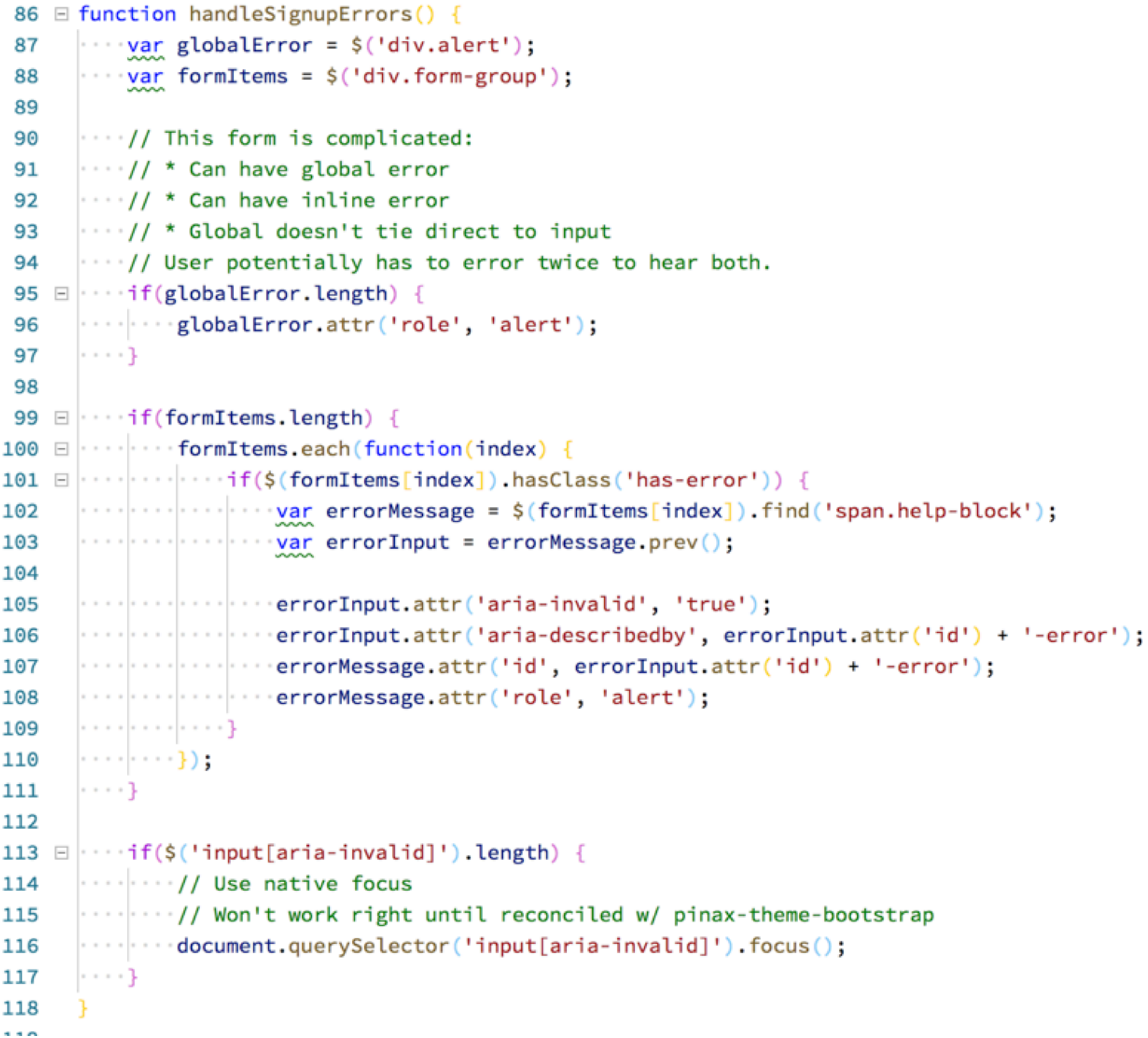
Twemoji ©Twitter - CC-BY 4.0


site.js

```
$(document).ready(function() {⋯
});

function handleHomeAlert() {⋯
}

function handleResultNotificationElements() {⋯
}

/*⋯

function handleLoginErrors() {⋯
}

function handleSignupErrors() {⋯
}

function handleCommonTalkDataForm() {⋯
}

function handleAddlSpeakerForm() {⋯
}

function handleSponsorErrors() {⋯
}

```



```
function handleHomeAlert() {
    // Notification for confirmation email sent

    var banner = $('div.alert');
    if(banner.length) {
        banner.attr('role', 'alert');
    }
}

```



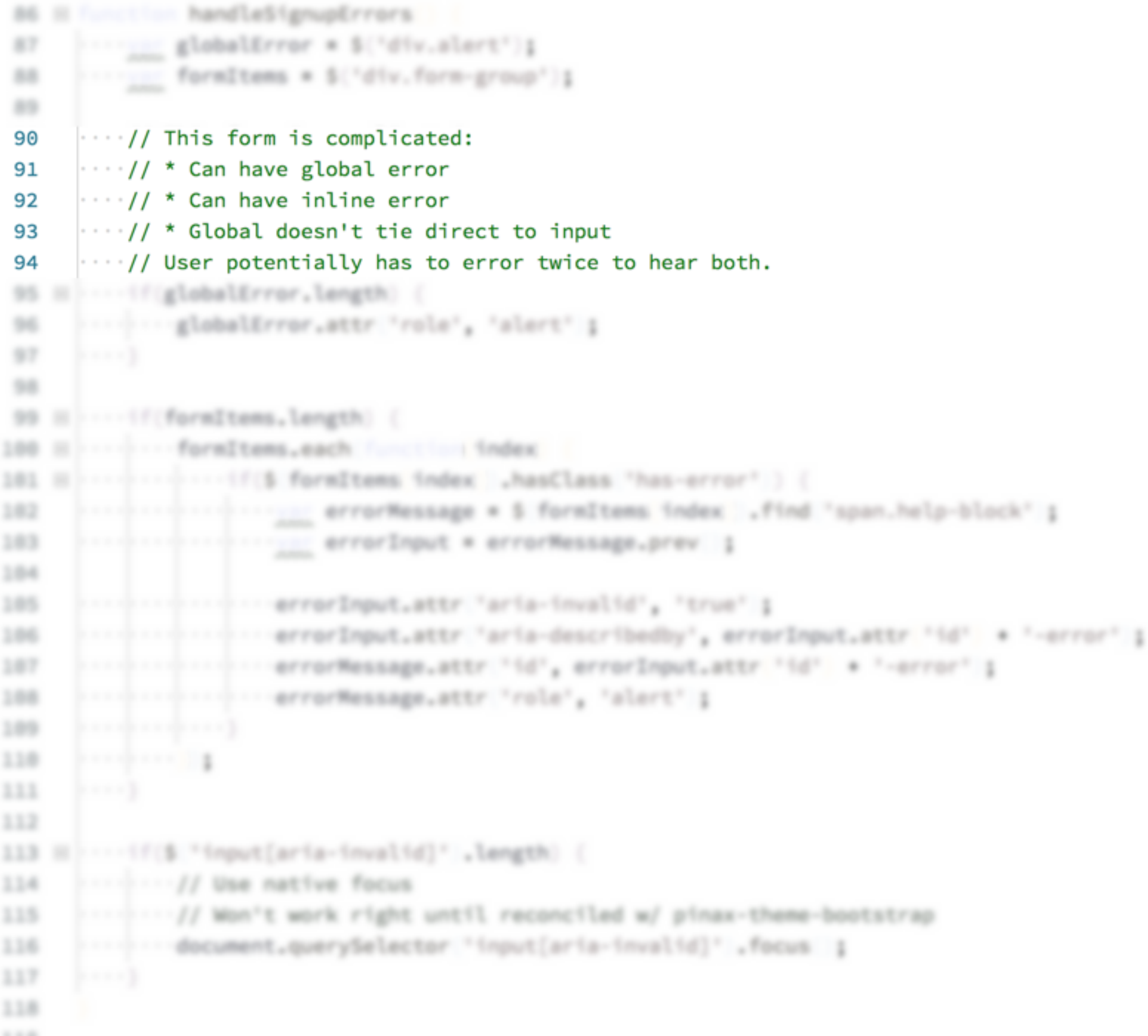
```javascript
function handleSignupErrors() {
    var globalError = $('div.alert');
    var formItems = $('div.form-group');

    // This form is complicated:
    // * Can have global error
    // * Can have inline error
    // * Global doesn't tie direct to input
    // User potentially has to error twice to hear both.
    if(globalError.length) {
        globalError.attr('role', 'alert');
    }

    if(formItems.length) {
        formItems.each(function(index) {
            if($(formItems[index]).hasClass('has-error')) {
                var errorMessage = $(formItems[index]).find('span.help-block');
                var errorInput = errorMessage.prev();

                errorInput.attr('aria-invalid', 'true');
                errorInput.attr('aria-describedby', errorInput.attr('id') + '-error');
                errorMessage.attr('id', errorInput.attr('id') + '-error');
                errorMessage.attr('role', 'alert');
            }
        });
    }

    if($('input[aria-invalid]').length) {
        // Use native focus
        // Won't work right until reconciled w/ pinax-theme-bootstrap
        document.querySelector('input[aria-invalid]').focus();
    }
}
```



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function handleSignupErrors() {
    var globalError = $('div.alert');
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                errorInput.attr('aria-invalid', 'true');
                errorInput.attr('aria-describedby', errorInput.attr('id') + '-error');
                errorMessage.attr('id', errorInput.attr('id') + '-error');
                errorMessage.attr('role', 'alert');
            }
        });
    }

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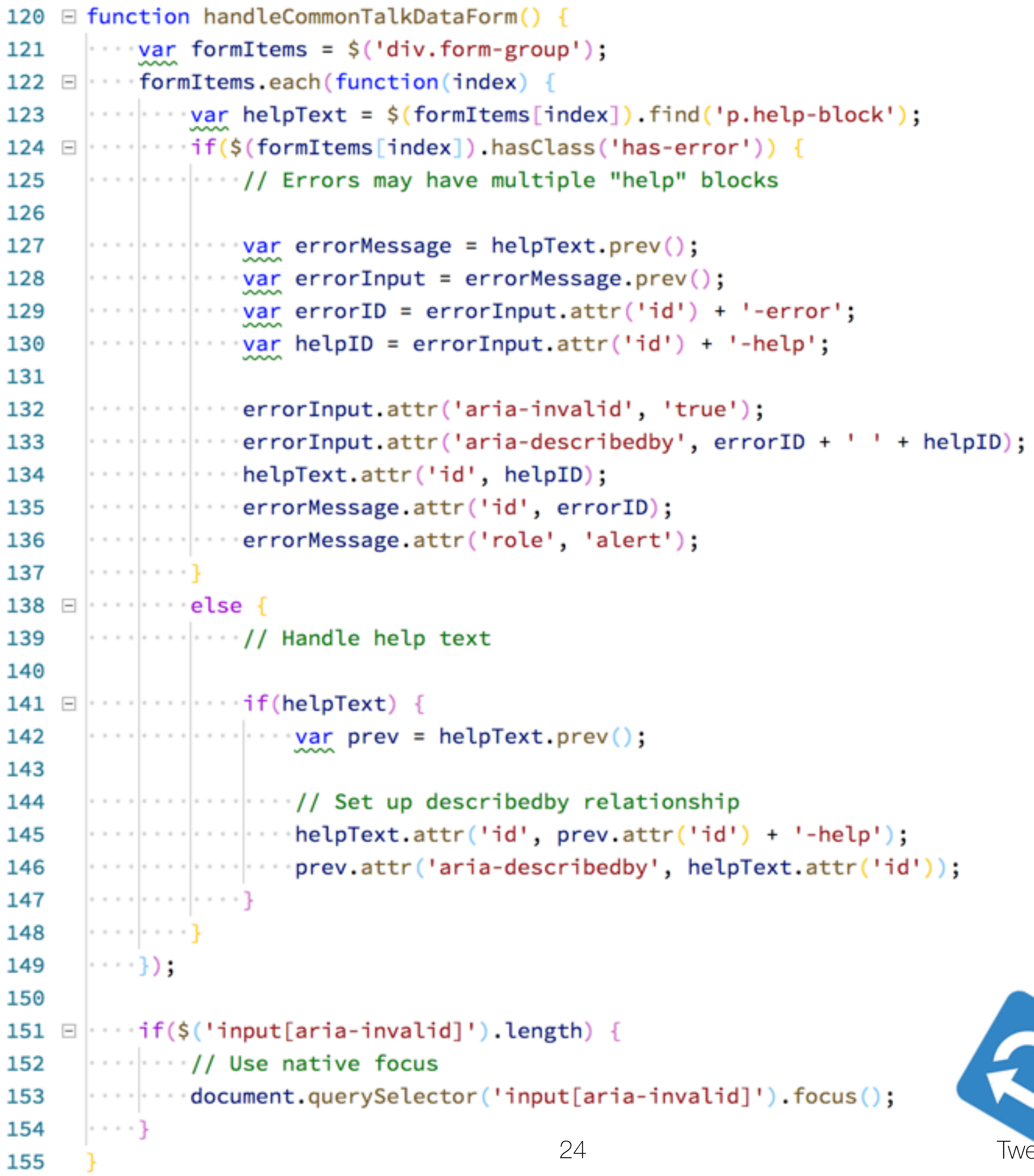
        // Use native focus
        // Won't work right until reconciled w/ pinax-theme-bootstrap
        document.querySelector('input[aria-invalid]').focus();
    }
}
```



```javascript
function handleCommonTalkDataForm() {
    var formItems = $('div.form-group');
    formItems.each(function(index) {
        var helpText = $(formItems[index]).find('p.help-block');
        if($(formItems[index]).hasClass('has-error')) {
            // Errors may have multiple "help" blocks

            var errorMessage = helpText.prev();
            var errorInput = errorMessage.prev();
            var errorID = errorInput.attr('id') + '-error';
            var helpID = errorInput.attr('id') + '-help';

            errorInput.attr('aria-invalid', 'true');
            errorInput.attr('aria-describedby', errorID + ' ' + helpID);
            helpText.attr('id', helpID);
            errorMessage.attr('id', errorID);
            errorMessage.attr('role', 'alert');
        }
        else {
            // Handle help text

            if(helpText) {
                var prev = helpText.prev();

                // Set up describedby relationship
                helpText.attr('id', prev.attr('id') + '-help');
                prev.attr('aria-describedby', helpText.attr('id'));
            }
        }
    });

    if($('input[aria-invalid]').length) {
        // Use native focus
        document.querySelector('input[aria-invalid]').focus();
    }
}
```

4: Due diligence

4: Due Diligence

- Keep fixing
- Keep testing
- Future proofing

4: Due Diligence

Pa11y

http://pa11y.org

Resources

WAVE

https://wave.webaim.org/about

Resources

aXe

https://www.deque.com/axe/

Resources

Lighthouse

https://developers.google.com/web/tools/lighthouse/

Resources

Pa11y

http://pa11y.org

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