GENERAL ASSEMBLY

HAML and You

Introduction to HAML
for GA Digital Product Designers

What the 'H' is HAML?

What?

HTML Abstraction Markup Language

- Direct replacement for inline templating (bye bye ERB)
- Its lightweight
- Its DRY (don't repeat yourself... even in HTML)
- Its Whitespace cognizant
- Accelerates development
- Accelerates markup cognition

Core Principles

- Markup should be beautiful
- Markup should by DRY
- Markup should be well-indented
- HTML structure should be CLEAR

Why?

- Developers got tired of hand typing out layouts.
- So many advances developer side, why not front-end?
- HTML has been implemented in largely the same way

What its not...

- A language
- A replacement for Ruby code
- A replacement for CSS

Where are we using it?

- Core (half and half)
- Sprites (all views and layouts)
- EDM (Waite), FrontRow (Topgun), Dash, Profiles, ChurchKey, Outcomes, Marketing Tracker, etc. Not as far as I know.

The Worst.

- Having a codebase split into normal ERB markup with HAML along the way.
- Its hard to context switch
- Converting to HAML as you go

Where I see it for us

- New, greenfield apps
- A conscious decision to convert legacy codebases
- New standard across designers and devs

Where CAN we use it?

- Any Rails app.
- Any Sinatra app (but unlikely)
- Not Wordpress (sorry blog, you suck).
- Regular HTML (has its own compiler)

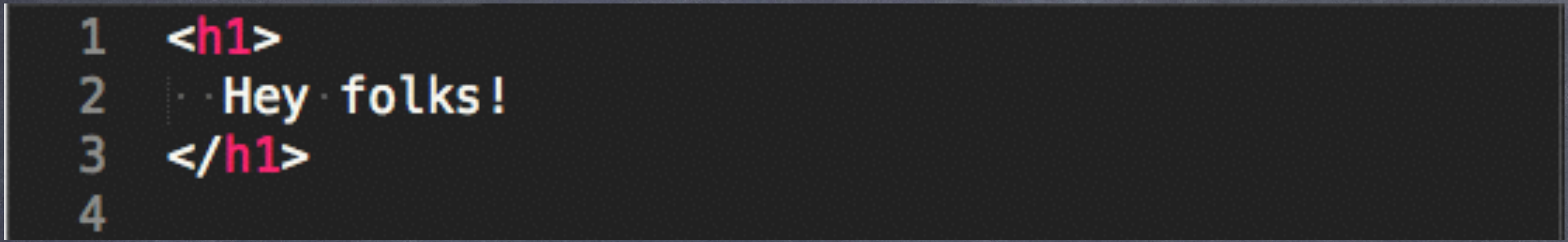
Team-Wide Support

- All engineers know HAML inherently. Its ruby, and its easy.
- Designers can grok it easy, you're all exceptional.
- PMs can read it (great for Shiiba currently)
- Tech Leads behind it, Mgrs behind it

Examples

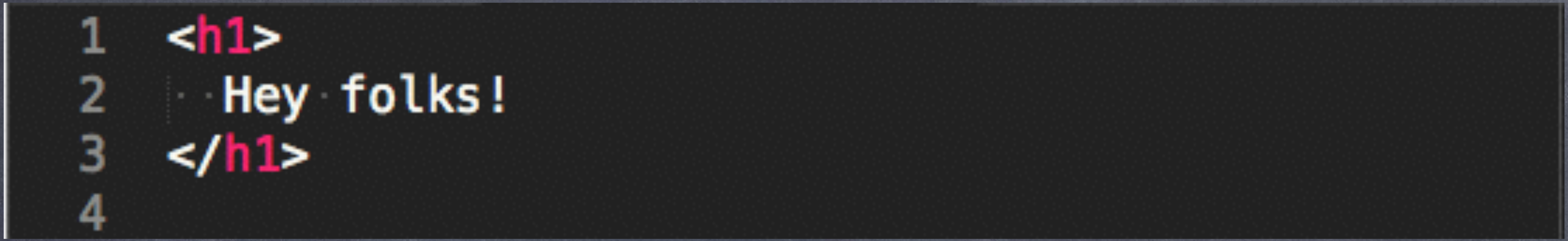
Any questions before we start?

Lets start with basic HTML



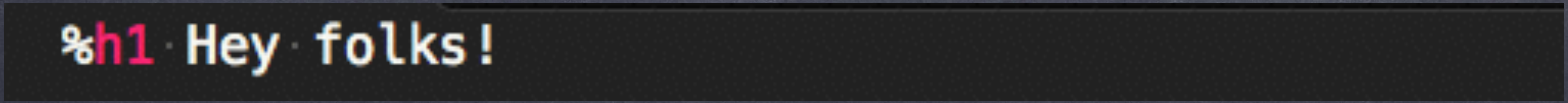
```html
<h1>
  Hey folks!
</h1>

```

Lets start with basic HTML



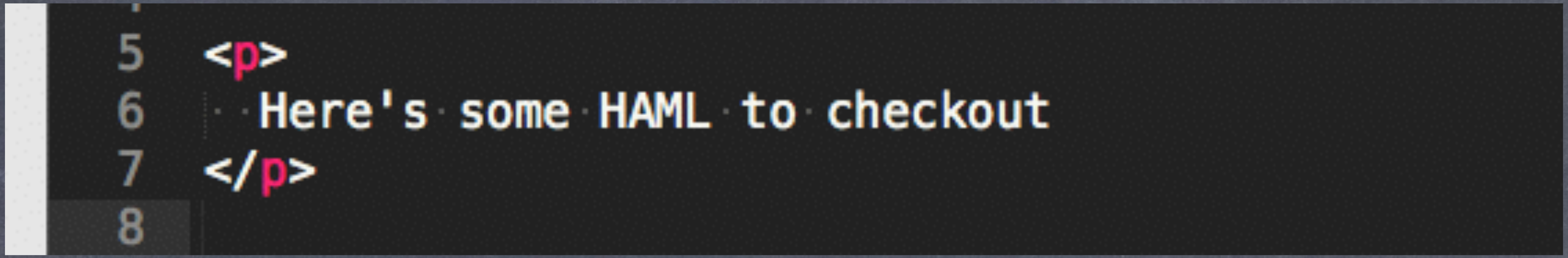
```html
<h1>
  Hey folks!
</h1>

```

In HAML



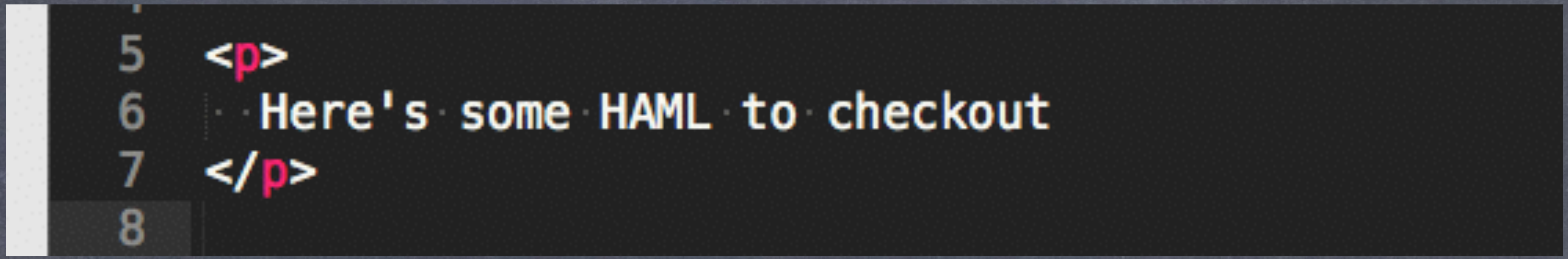
```haml
%h1 Hey folks!
```

How about <p> tags



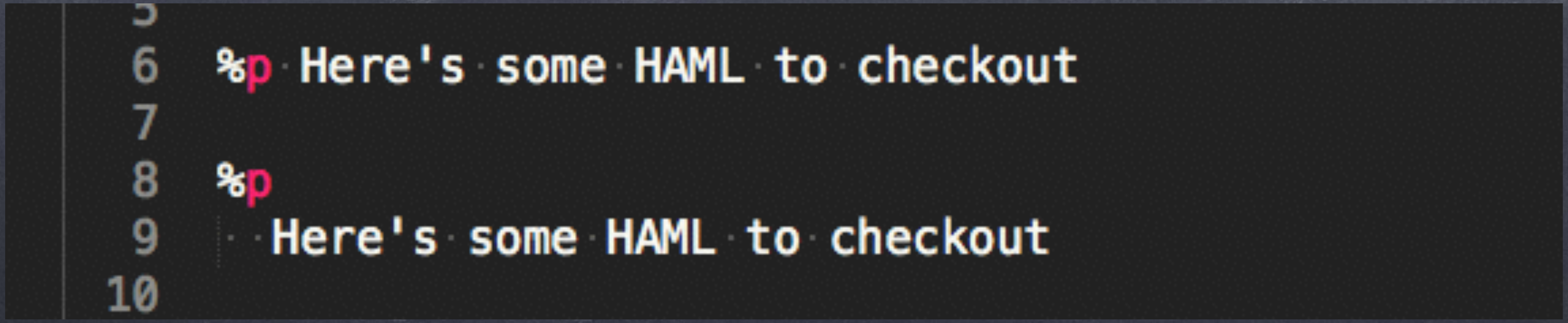
```
<p>
  Here's some HAML to checkout
</p>

```

How about <p> tags



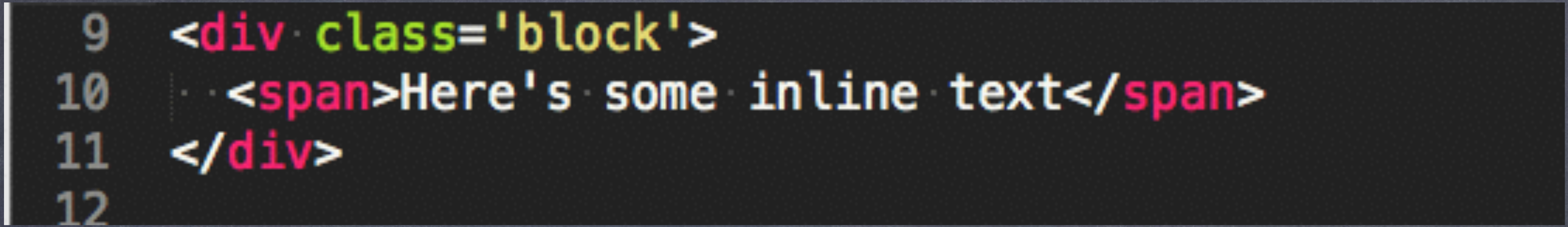
```
<p>
  Here's some HAML to checkout
</p>

```

For simple markup, you can do on the same line, or drop to the subsequent line



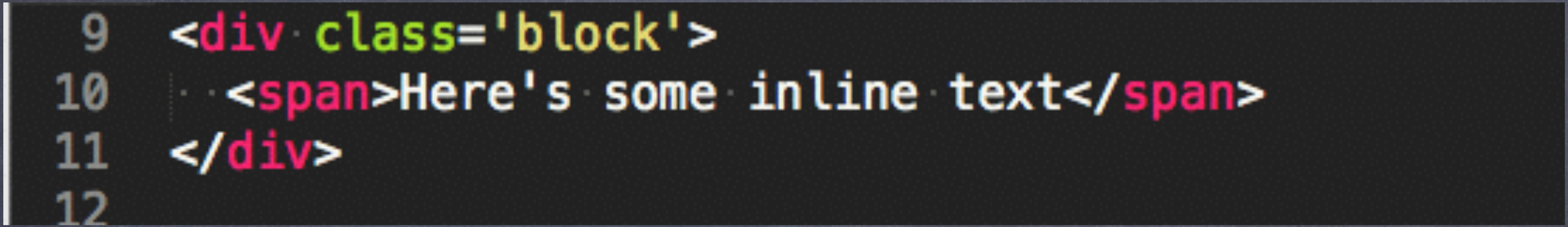
```
%p Here's some HAML to checkout

%p
  Here's some HAML to checkout

```

Something a little harder - <divs>



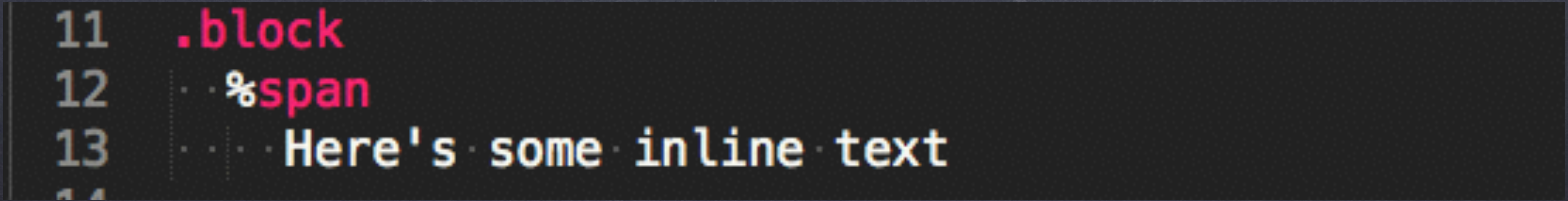
```
<div class='block'>
  <span>Here's some inline text</span>
</div>

```

Something a little harder - <divs>



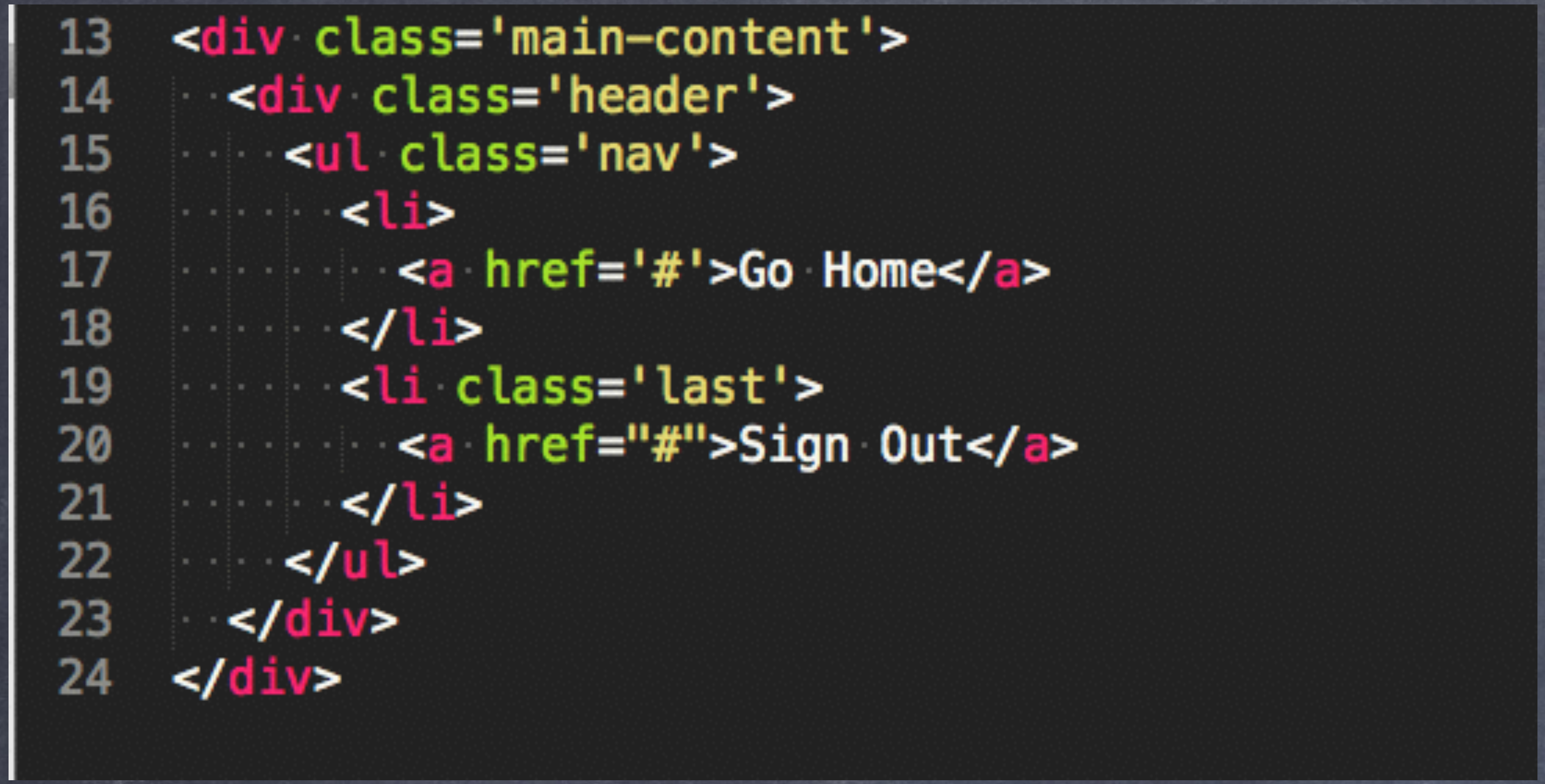
```html
<div class='block'>
  <span>Here's some inline text</span>
</div>
```

divs are the default element for HAML. You dont have to specify them if you have a class or id



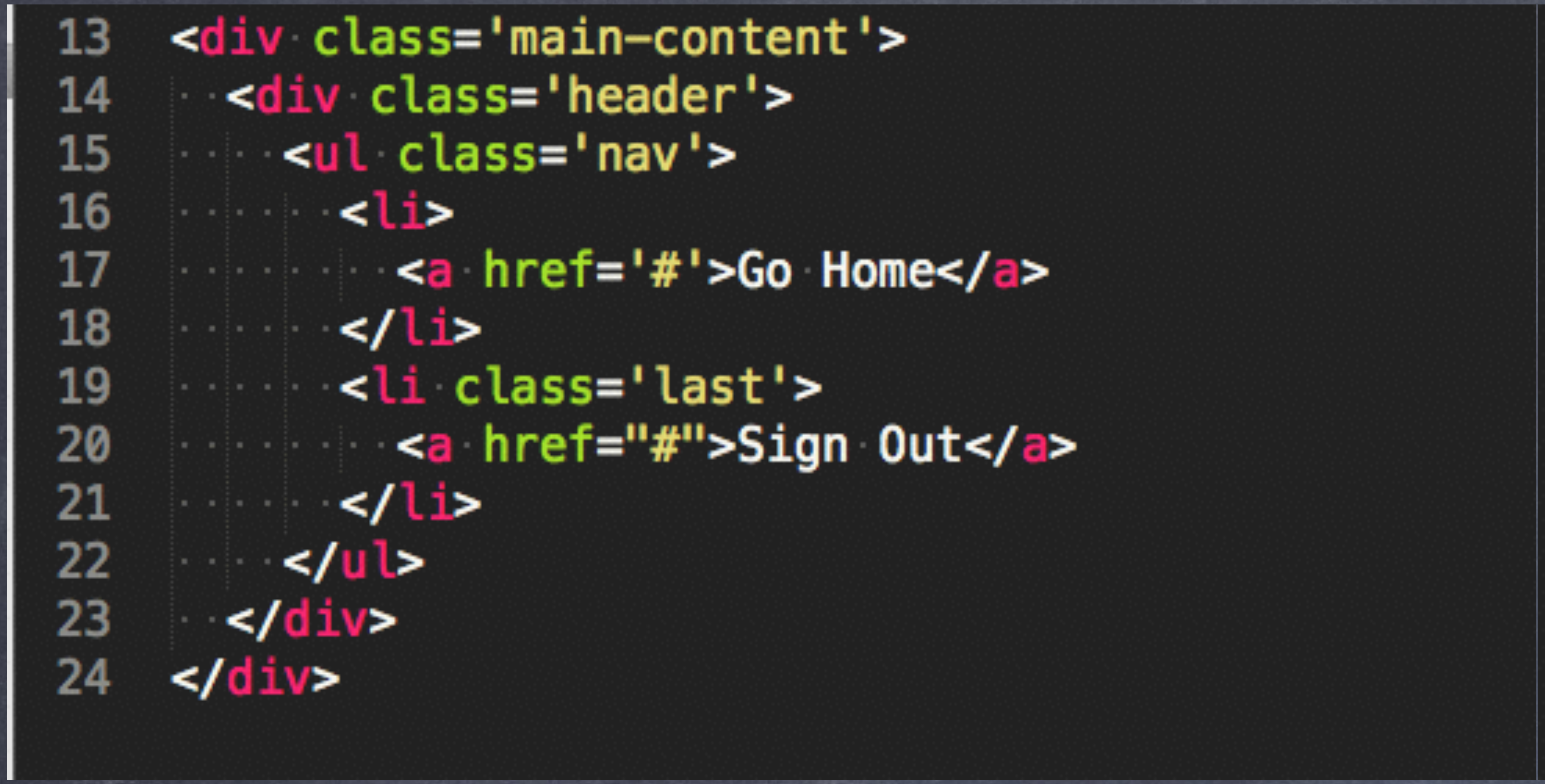
```haml
.block
  %span
    Here's some inline text
```

Lets use something more... Real

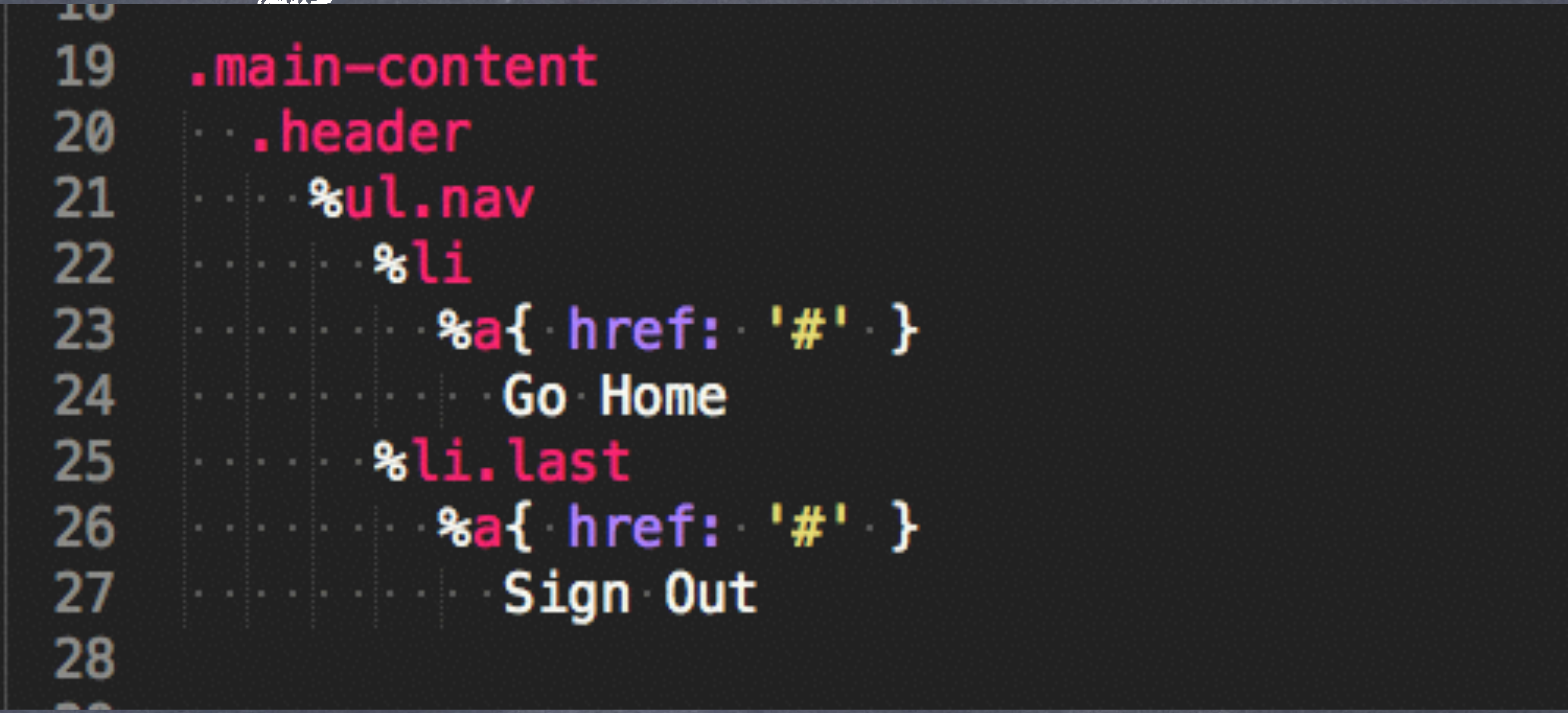


```html
<div class='main-content'>
  <div class='header'>
    <ul class='nav'>
      <li>
        <a href='#'>Go Home</a>
      </li>
      <li class='last'>
        <a href="#">Sign Out</a>
      </li>
    </ul>
  </div>
</div>
```

Lets use something more.. Real

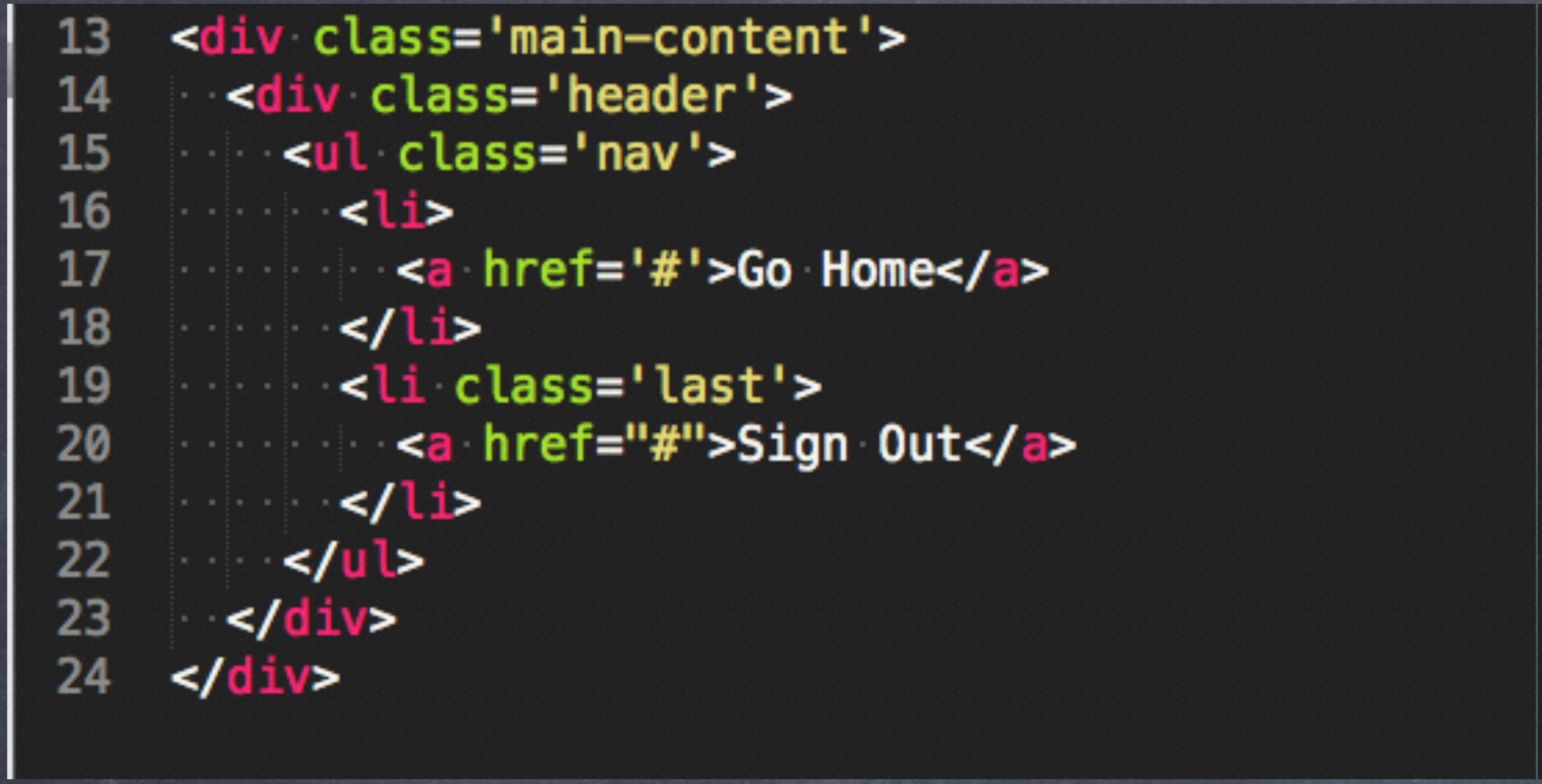


```html
<div class='main-content'>
  <div class='header'>
    <ul class='nav'>
      <li>
        <a href='#'>Go Home</a>
      </li>
      <li class='last'>
        <a href="#">Sign Out</a>
      </li>
    </ul>
  </div>
</div>
```

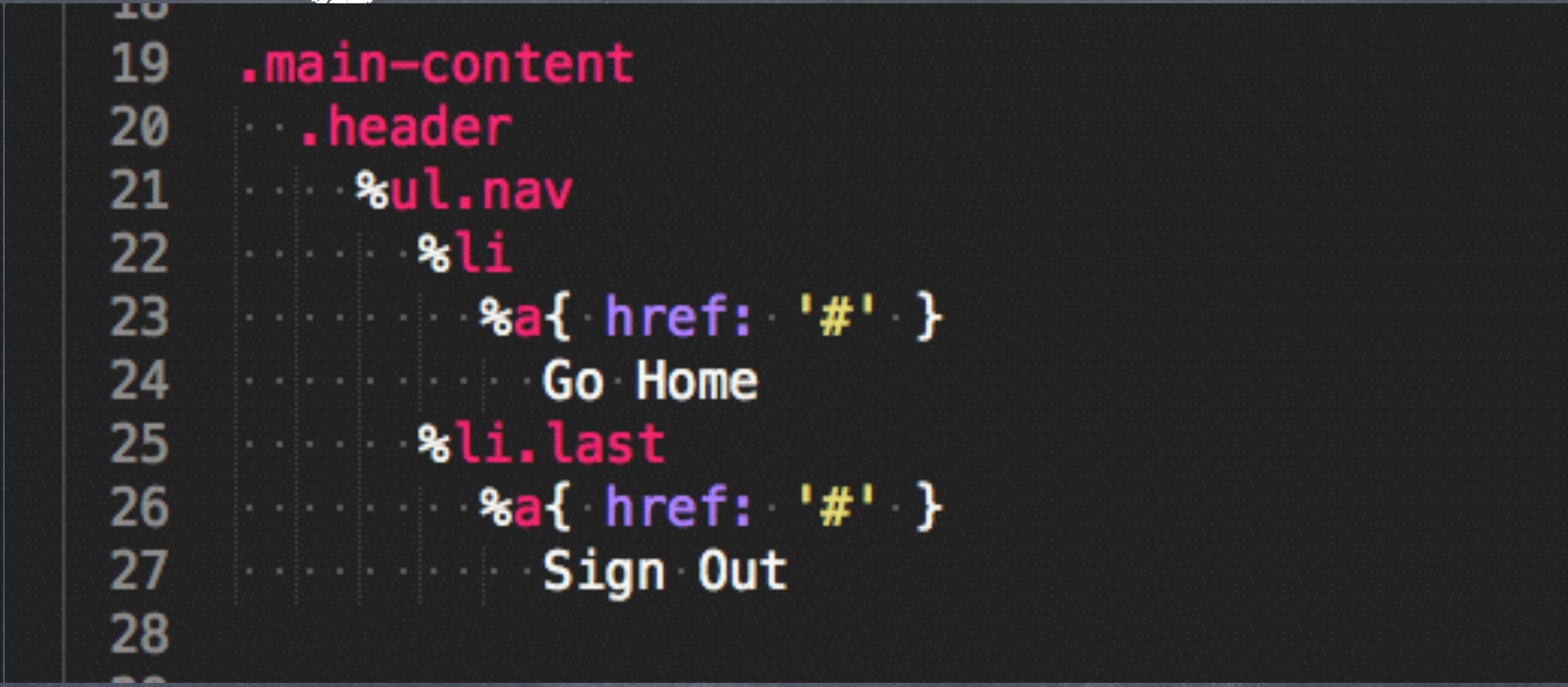


```haml
.main-content
  .header
    %ul.nav
      %li
        %a{ href: '#' }
          Go Home
      %li.last
        %a{ href: '#' }
          Sign Out
```

Lets use something more... Real

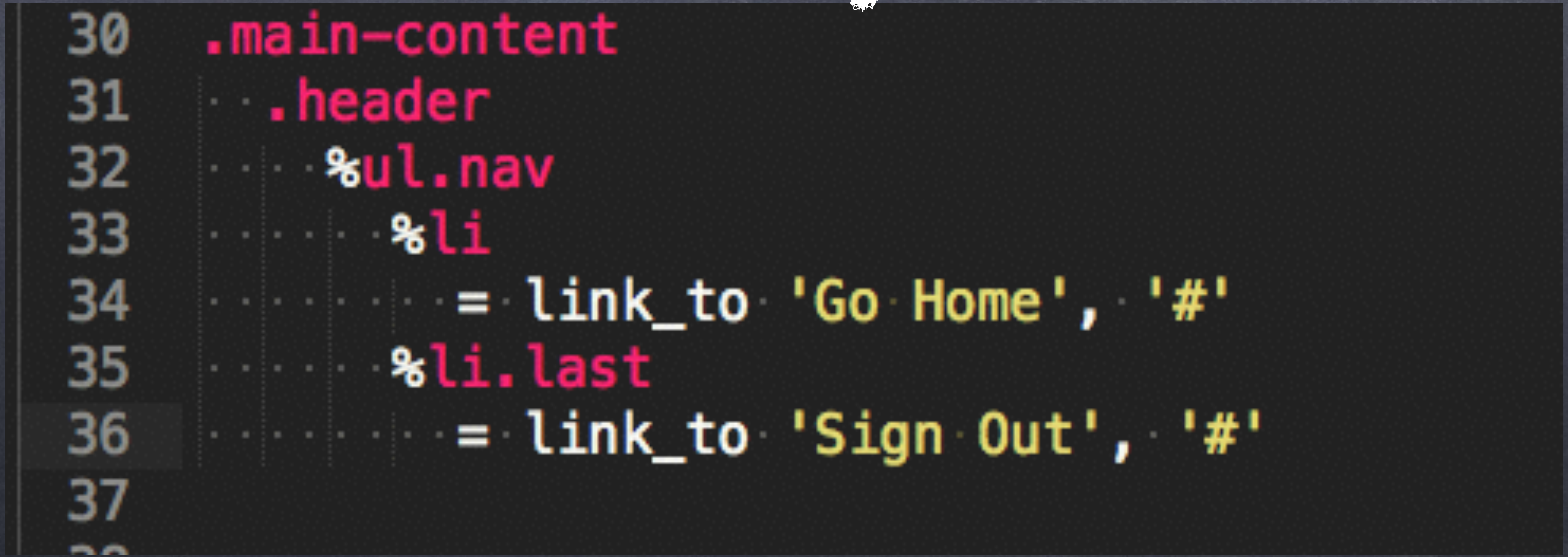


```html
<div class='main-content'>
  <div class='header'>
    <ul class='nav'>
      <li>
        <a href='#'>Go Home</a>
      </li>
      <li class='last'>
        <a href="#">Sign Out</a>
      </li>
    </ul>
  </div>
</div>
```

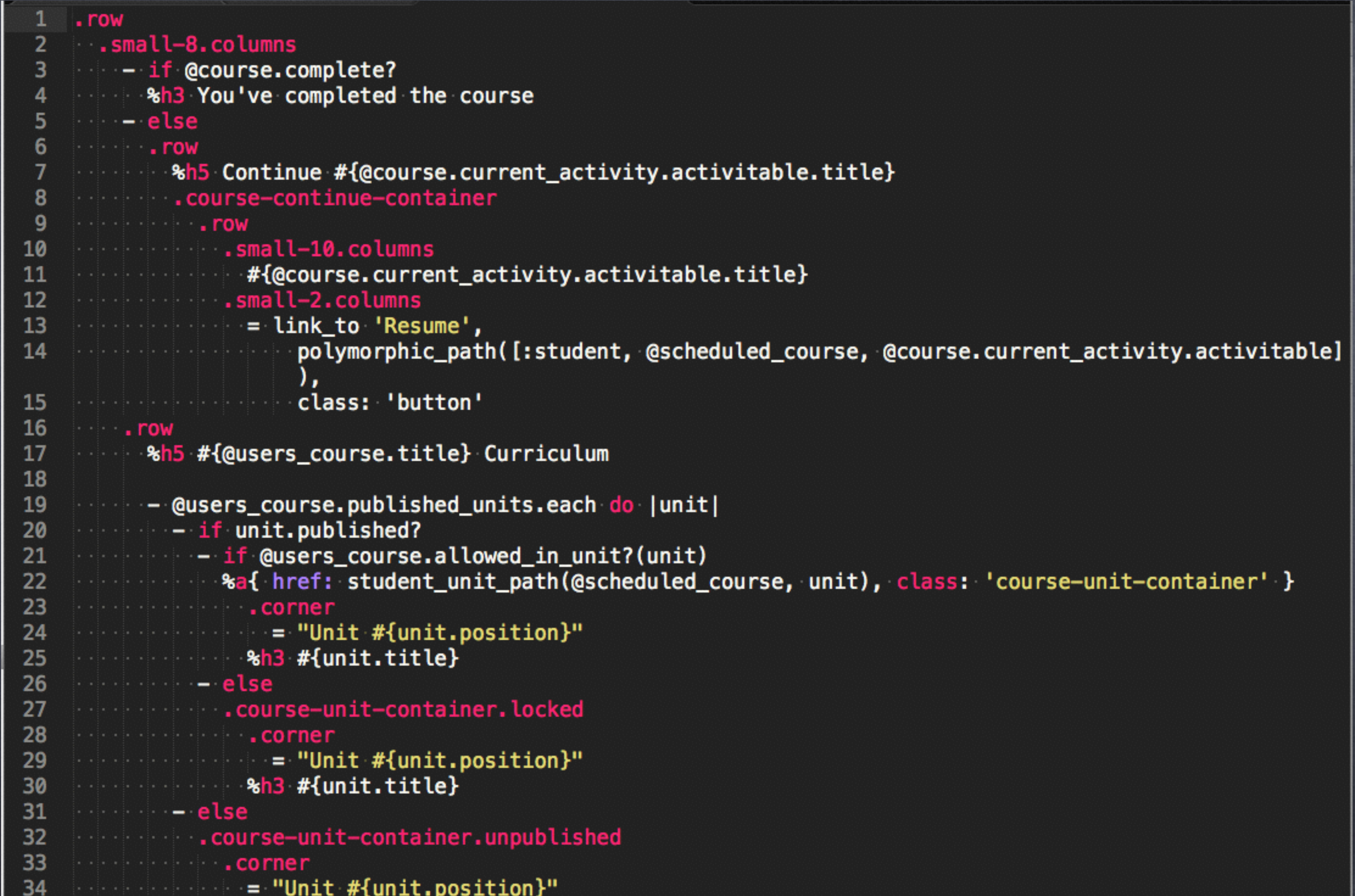


```haml
.main-content
  .header
    %ul.nav
      %li
        %a{ href: '#' }
          Go Home
      %li.last
        %a{ href: '#' }
          Sign Out
```

With some Ruby for flavor

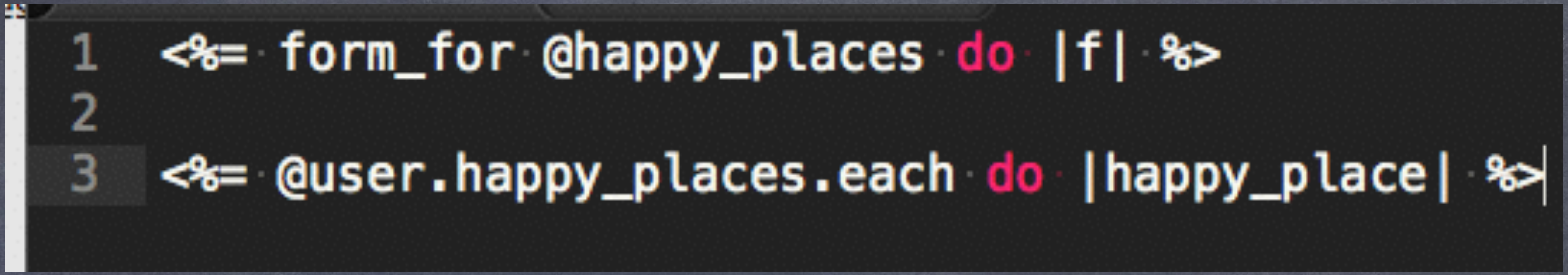


```haml
.main-content
  .header
    %ul.nav
      %li
        = link_to 'Go Home', '#'
      %li.last
        = link_to 'Sign Out', '#'
```



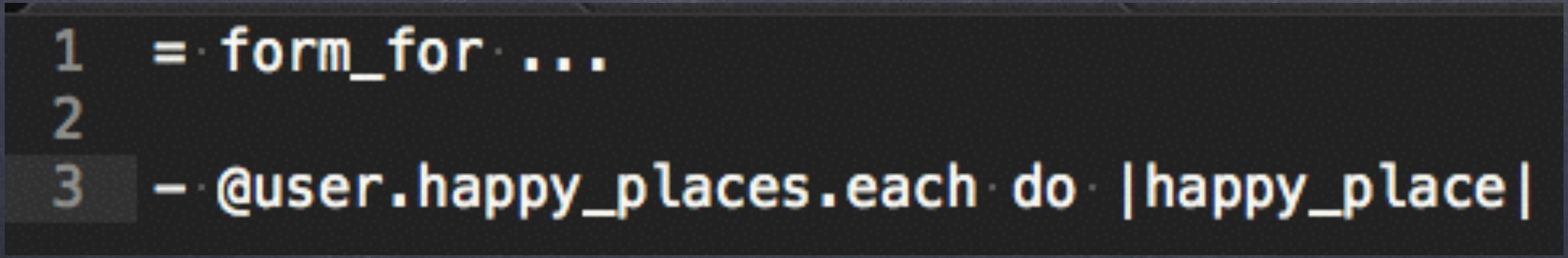
```
.row
  .small-8.columns
    - if @course.complete?
      %h3 You've completed the course
    - else
      .row
        %h5 Continue #{@course.current_activity.activitable.title}
        .course-continue-container
          .row
            .small-10.columns
              #{@course.current_activity.activitable.title}
            .small-2.columns
              = link_to 'Resume',
                  polymorphic_path([:student, @scheduled_course, @course.current_activity.activitable]),
                  class: 'button'
    .row
      %h5 #{@users_course.title} Curriculum

      - @users_course.published_units.each do |unit|
        - if unit.published?
          - if @users_course.allowed_in_unit?(unit)
            %a{ href: student_unit_path(@scheduled_course, unit), class: 'course-unit-container' }
              .corner
                = "Unit #{unit.position}"
              %h3 #{unit.title}
          - else
            .course-unit-container.locked
              .corner
                = "Unit #{unit.position}"
              %h3 #{unit.title}
        - else
          .course-unit-container.unpublished
            .corner
              = "Unit #{unit.position}"
```

You all know Rails to some degree at this point



```
<%= form_for @happy_places do |f| %>

<%= @user.happy_places.each do |happy_place| %>
```

in HAML



```
= form_for ...

- @user.happy_places.each do |happy_place|
```

Workshop

We're going to practice translating. I'm not going to have you write brand new code and expect to do the CSS and Ruby markup as well. Lets dig through a regular HTML document with ERB and re-write it as HAML

github.com/generalassembly/haml_for_designers_workshop'

Questions?

Thanks for participating, hope you enjoyed it.

— Kevin