

Let's take a look at vf-core

What is vf-core

- A component library and set of tools.
- Built on a blank canvas, from the ground up
- Created to work on its own for new projects
- Able to work as part of existing sites.
- Can work alongside existing frameworks and libraries.
- Has accessibility baked-in from the start.

Why not use Bootstrap or Foundation or Material?

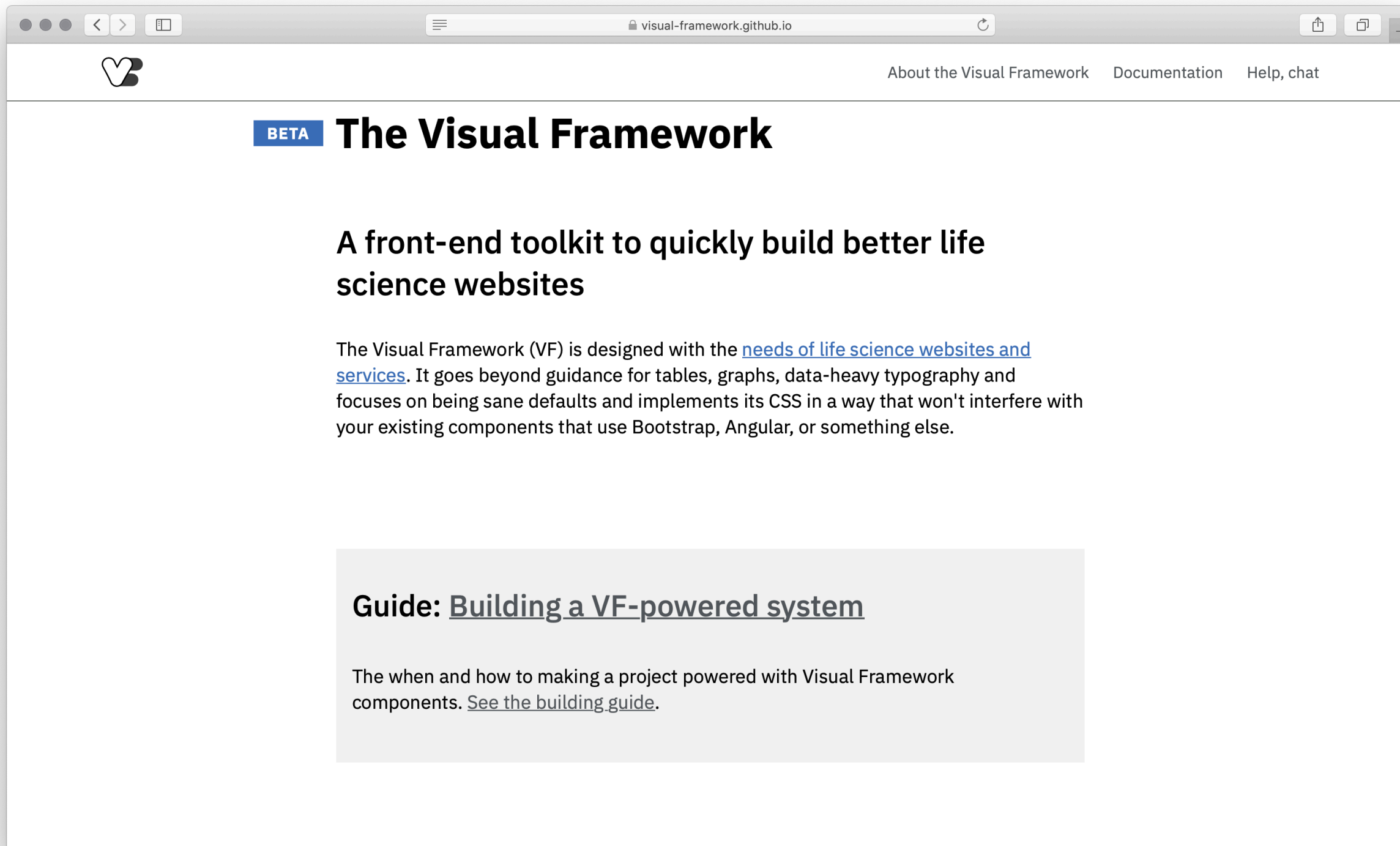
- Off the shelf component libraries come with their own baggage.
- Designed by committee.
- Can be easily out grown.
- Are just not that malleable.

What is vf-core

- Developer Guidelines.
- Design Tokens
- CSS Architecture.
- Components.
- Utility Classes.
- A Monorepo.

Developer Guidelines

- Governance Guidelines
- Naming Things
- Creating Components
- Deprecating Components
- Updating Components
- Versioning Components
- CSS Authoring Guidelines
- JavaScript Conventions



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Design Tokens


- An abstraction.
- Named entities that store visual design attributes (@jina)
- Colour, Typography, Spacing, Shadows, Animations, Breakpoints
- Can create Sass, LESS, CSS Custom Properties, JavaScript, iOS and Android
- A 'single source of truth' for design decisions.
- Can be overridden, customised, or you can bring your own.

visual-framework.github.io

Visual Framework 2.0 About the Visual Framework Documentation Help, chat

Design Tokens: Colours BETA

This component has variants: Welcome Colours Spacing Typography



EMBL Green

Colour code:

#18974C

RGB(24, 151, 76)


Sass:

```
$vf-color--green
```

```
map-get($vf-colors-map, vf-color--green)
```

CSS custom property:

```
vf-color--green
```



EMBL Green, Darkest Tint

Colour code:

#0A5032


RGB(10, 80, 50)

Sass:

```
$vf-color--green--darkest
```

```
map-get($vf-colors-map, vf-color--green--darkest)
```

CSS custom property:



EMBL Green, Dark Tint

Colour code:

#007B53

RGB(0, 123, 83)

Sass:

```
$vf-color--green--dark
```

```
map-get($vf-colors-map, vf-color--green--dark)
```

CSS custom property:

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Design Tokens: Spacing BETA

This component has variants: Welcome Colours **Spacing** Typography

<p>Spacing 0 Value: 0 Sass Variable: <code>`\$vf-spacing--0`</code> CSS: <code>`--vf-spacing--0`</code></p>	<p>Spacing Extra Small Value: 4px Sass Variable: <code>`\$vf-spacing--xs`</code> CSS: <code>`--vf-spacing--xs`</code></p>	<p>Spacing Small Value: 8px Sass Variable: <code>`\$vf-spacing--sm`</code> CSS: <code>`--vf-spacing--sm`</code></p>	<p>Spacing Medium Value: 16px Sass Variable: <code>`\$vf-spacing--md`</code> CSS: <code>`--vf-spacing--md`</code></p>

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Design Tokens: Typography BETA

This component has variants: Welcome Colours Spacing **Typography**

Button, regular

The five boxing wizards jump quickly.

- Font Size: 24px
- Font Weight: 700
- Ling Height: 1
- Sass: @mixin set-type(`text-button--1`)

Button, small

The five boxing wizards jump quickly.

- Font Size: 16px
- Font Weight: 700
- Ling Height: 1
- Sass: @mixin set-type(`text-button--2`)

Body, extra large

The five boxing wizards jump quickly.

- Font Size: 32px
- Font Weight: 500
- Ling Height: 1.3125
- Sass: @mixin set-type(`text-body--1`)

Body, large

The five boxing wizards jump quickly.

- Font Size: 19px
- Font Weight: 400
- Ling Height: 1.421
- Sass: @mixin set-type(`text-body--2`)

Body, regular

The five boxing wizards jump quickly.

- Font Size: 16px
- Font Weight: 400

Body, small (alternate)

The five boxing wizards jump quickly.

- Font Size: 14px
- Font Weight: 500

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CSS Architecture

- Written in Sass
- Uses BEM naming convention
- Is name-spaced with “vf-”
- Uses StyleLint

Sass

- Variables
- Maps
- Mixins
- Partials

BEM

- A consistent naming convention
- Block
- Block__Element
- Block__Element--Modifier / Block--Modifier

Name-spaced

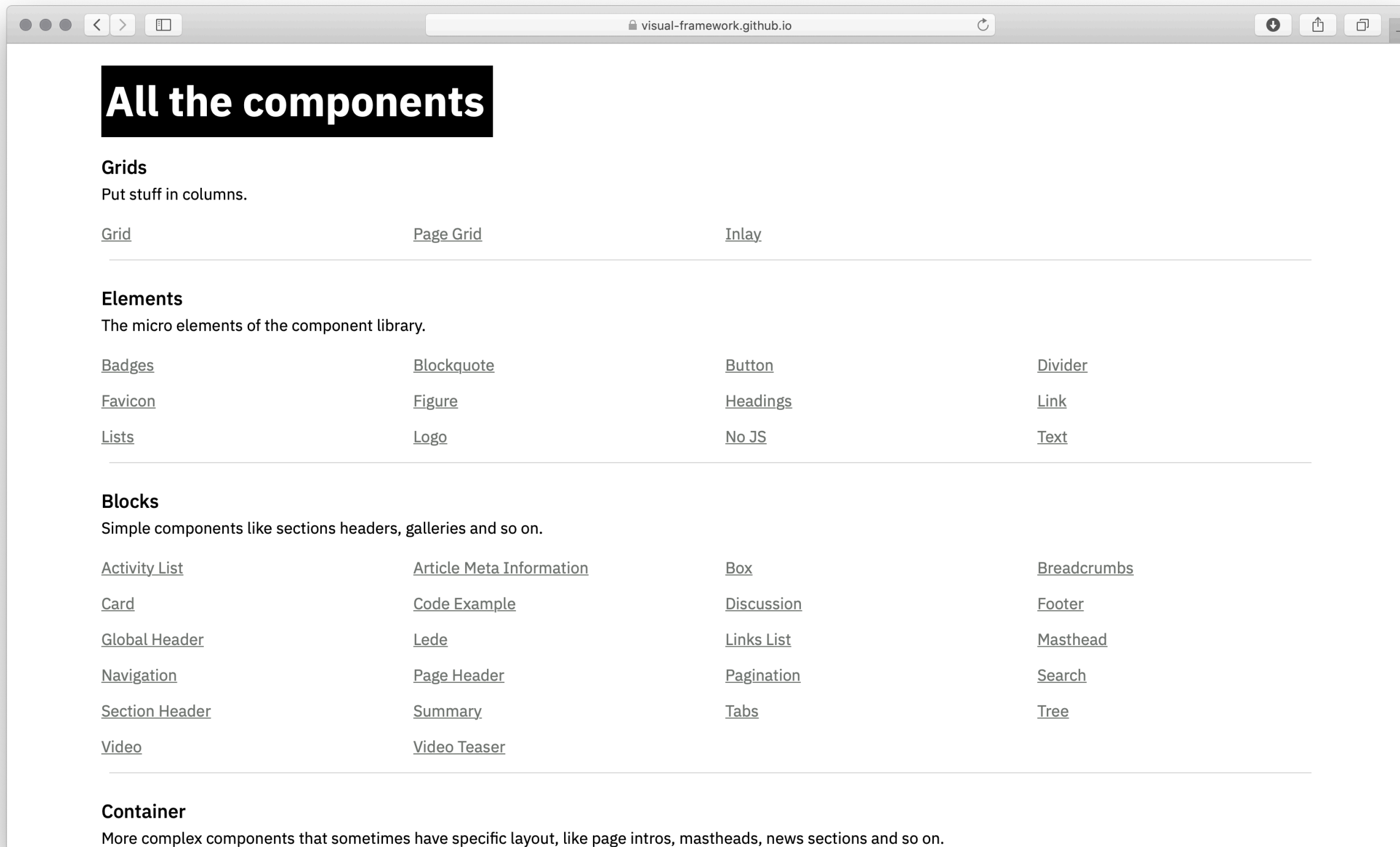
- Prefixed classes to avoid any potential conflict.
- `.vf-component` and `.component` want interfere with each other.
- Every element in a component has a class.
- Longform content has a wrapper class of `.vf-content`.

Linted

- Helps enforce defined coding conventions and avoid error
- Makes us use Sass variables or maps when appropriate
- Makes us author CSS in a consistent way
- Is a 'pre-push' before it gets to a PR

Components

- Elements
- Block
- Containers
- Layouts
- Component Generator



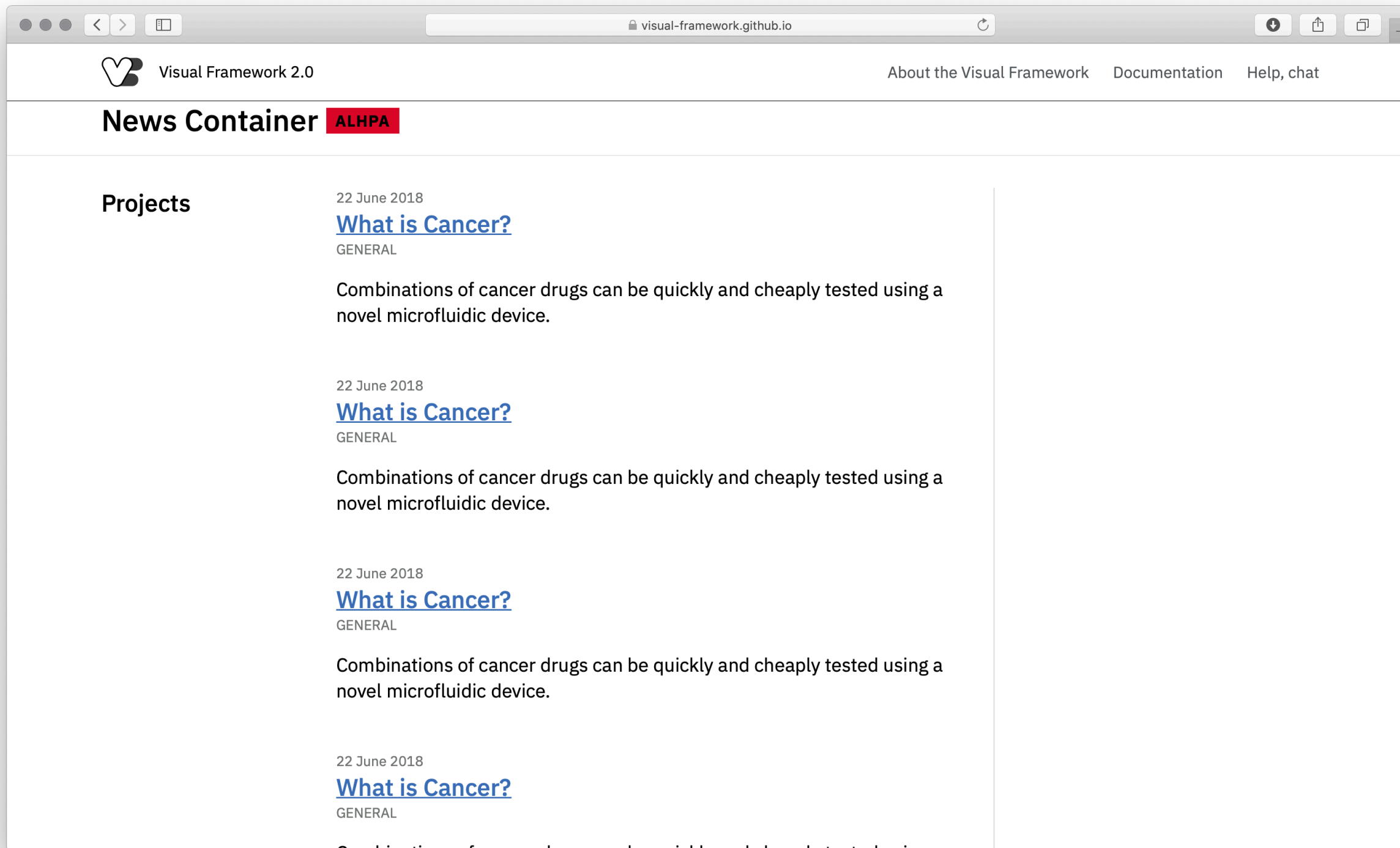
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The screenshot shows a web browser window with the URL `visual-framework.github.io`. The page header includes the Visual Framework 2.0 logo and navigation links for "About the Visual Framework", "Documentation", and "Help, chat". The main heading is "Badges: Primary" with a red "ALPHA" badge. Below this is a row of variant buttons: "Default", "Primary", "Secondary", "Tertiary", "Outline", "Rounded", "Pill", "Square", "Phases", and "Link". A blue "ALPHA" badge is displayed below the variants. A link says "Open the above preview in a new window: [With layout](#) [Open Component only](#) [Open](#)". The main section title is "Badge Component" with an npm package version of "1.0.0-beta.8". The "About" section explains that the `vf-badge` component is used for labeling and can be a link using `badge title`. The "Install" section states the component is distributed with npm and provides the command `$ yarn add --dev @visual-framework/vf-badge`. It also notes that source files are written in Sass (scss) and can be imported from the `node_modules` directory.

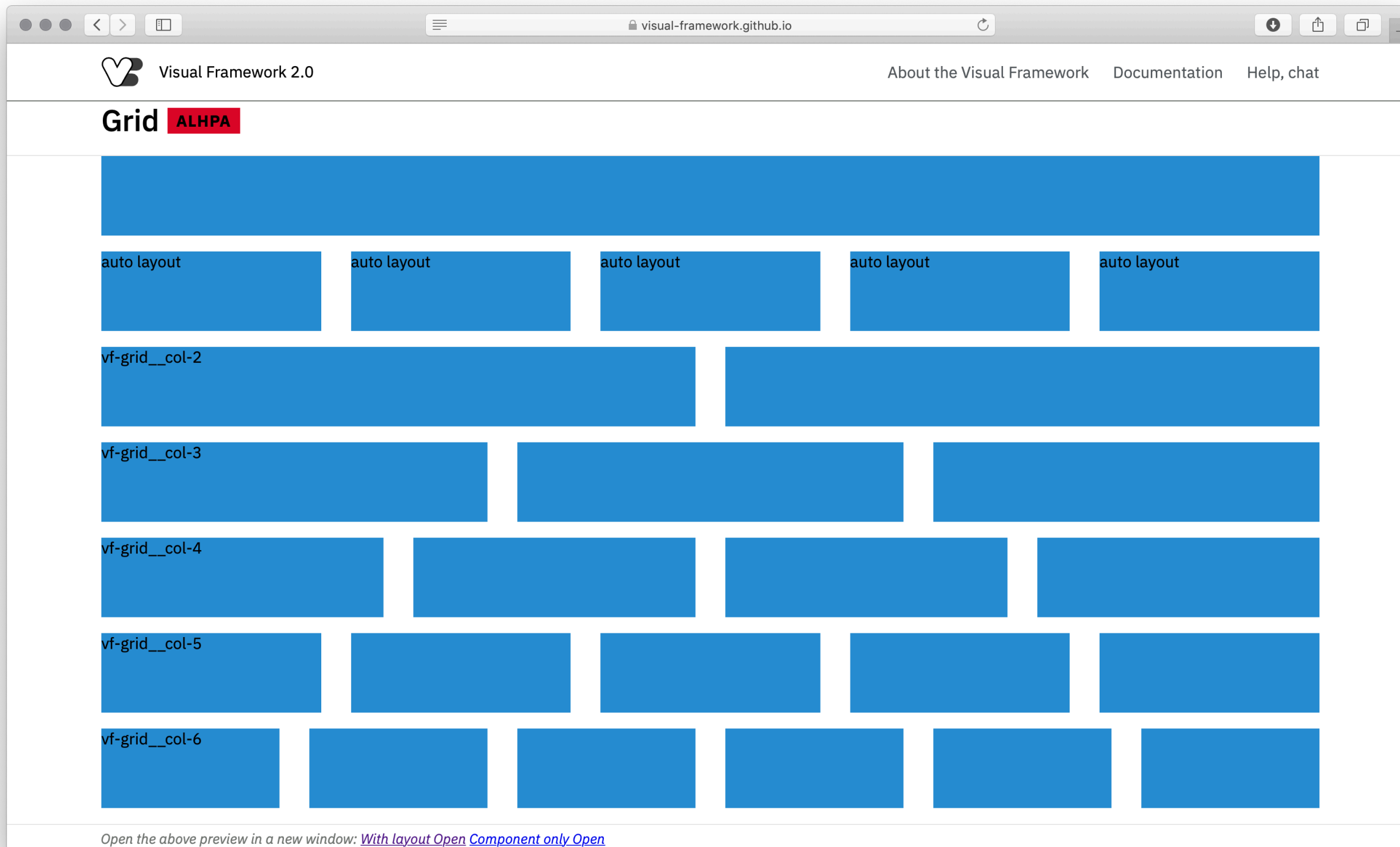
Let's take a look at `vf-core` - @sturobson - DEV(day)2019;

The screenshot shows a web browser window with the URL `visual-framework.github.io`. The page header includes the Visual Framework 2.0 logo and navigation links for 'About the Visual Framework', 'Documentation', and 'Help, chat'. The main content area features a 'Summary: Article' component with a 'BETA' badge. Below the title, a row of tabs allows switching between different variants: Profile, Large, Regular, Small, Article (selected), Has Image, Job, News, News Has Image, and Publication. The 'Article' variant is previewed, showing a link to 'EMBL's top social media posts of 2017 and what we learned from them' by Laura Howes, dated 06 February 2018. The preview text reads: 'I want to take a look back at my first full year as EMBL's social media manager. So what worked best over 2017 and what can I learn from this? My basic goals for VF's social media are to build community and develop a shared understanding of who we as an organisation are. Consequently, I care about what resonates on the different social sites much more than driving traffic back to Visual Framework websites, although traffic is obviously a by-product.' Below the preview, there are links to 'With layout Open', 'Component only Open', and 'Open'. The page then transitions to a 'Summary Component' section, indicating it is an 'npm package 1.0.0-beta.9'. Under the 'About' heading, a 'Publications Summary' section explains that the `vf-summary--publication` class can be nested inside a `vf-box` and that the `vf-summary__author` list can be truncated, requiring the `vf-et-al` class to be added to the `<p>` tag to display 'et al' at the end of the list.

Let's take a look at `vf-core` - @sturobson - DEV(day)2019;



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Utility Classes

- Generated from the Design Tokens.
- Colour, Spacing, Borders, Typography.
- Helpers – Layout, Accessibility (#a11y).
- Easy to quickly prototype design patterns.
- Great to create exceptions.
- Can be used to override component CSS.












visual-framework.github.io

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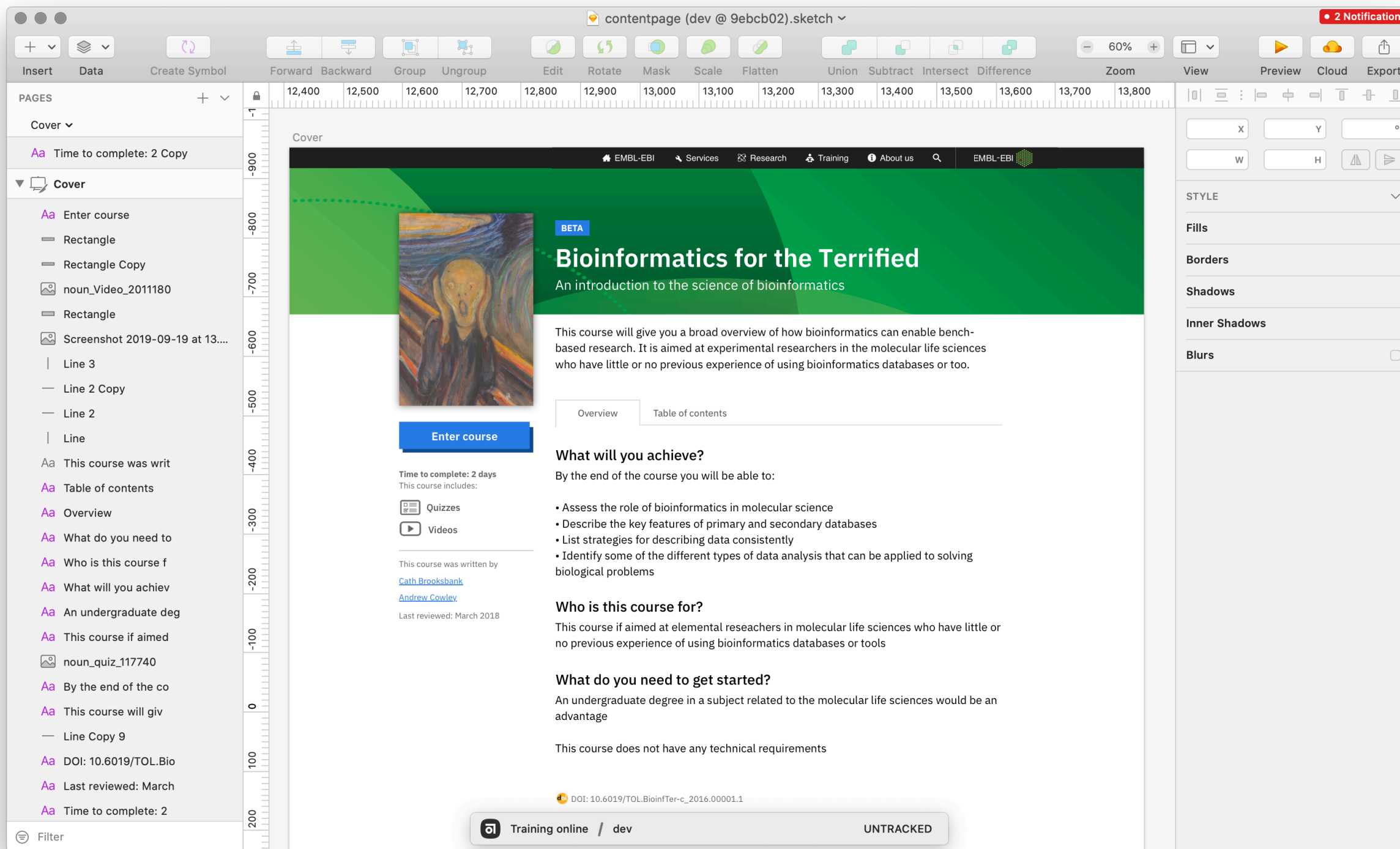
Utility Classes: Background BETA

This component has variants: Misc Background Border Float

Background Colours

- `.vf-u-background-color--green` 
- `.vf-u-background-color--green--darkest` 
- `.vf-u-background-color--green--dark` 
- `.vf-u-background-color--green--light` 
- `.vf-u-background-color--green--lightest` 
- `.vf-u-background-color--grey` 
- `.vf-u-background-color--grey--darkest` 
- `.vf-u-background-color--grey--dark` 
- `.vf-u-background-color--grey--light` 
- `.vf-u-background-color--grey--lightest` 
- `.vf-u-background-color--red` 

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```

<div class="embl-training__sidebar">

  <figure class="vf-figure">
    
  </figure>

  <button class="vf-button vf-button--primary vf-button--sm">Enter Course</button>
  <p class="vf-u-type__text-body--4 vf-u-text-color--grey--dark vf-u-margin--0">Time to complete: 2 days</p>
  <p class="vf-u-type__text-body--6 vf-u-text-color--grey--light vf-u-margin--0 vf-u-margin__bottom--sm">This course includes:</p>

  <ul class="vf-list vf-list--compact vf-u-margin__bottom--sm | training-sidebar-links">
    <li class="vf-list__item vf-u-margin--0">
      <a href="#Quizzes" class="vf-link vf-link--secondary vf-u-type__text-body--4 vf-u-margin--0">
        <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">↔</svg>
        Quizzes</a>
      </li>
    <li class="vf-list__item vf-u-margin--0">
      <a href="#Videos" class="vf-link vf-link--secondary vf-u-type__text-body--4 vf-u-margin--0">
        <svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 24 24">↔</svg>
        Videos</a>
      </li>
    </ul>

  <hr class="vf-divider vf-u-margin__bottom--sm">

  <p class="vf-u-type__text-body--6 vf-u-text-color--grey--light vf-u-margin--0 vf-u-margin__bottom--xs">This course was written
  by</p>
  <ul class="vf-list vf-list--compact vf-u-margin__bottom--sm">
    <li class="vf-list__item vf-u-margin--0">
      <a href="#Cath" class="vf-link vf-link--primary vf-u-type__text-body--6 vf-u-margin--0">Cath Brooksbank</a>
    </li>
    <li class="vf-list__item vf-u-margin--0">
      <a href="#Andrew" class="vf-link vf-link--primary vf-u-type__text-body--6 vf-u-margin--0">Andrew Cowley</a>
    </li>
  </ul>
  <p class="vf-u-type__text-body--6 vf-u-text-color--grey--light vf-u-margin--0 vf-u-margin__bottom--sm">Last reviewed: March
  
```

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A Monorepo

- All components and associated tools are in one repository.
- Allows for each component is an npm install away.
- Versioned, so you upgrade certain components or all.
- Allows for modular changes rather than all-in-one
- Can easily incorporate a new component into v1.x or other component libraries

I only need the new GDPR banner

```
npm install @visual-framework/vf-banner
```

I only need the components for the group pages (soon)

```
npm install @visual-framework/vf-group-pages
```


Give me everything

```
npm install @visual-framework/vf-core
```

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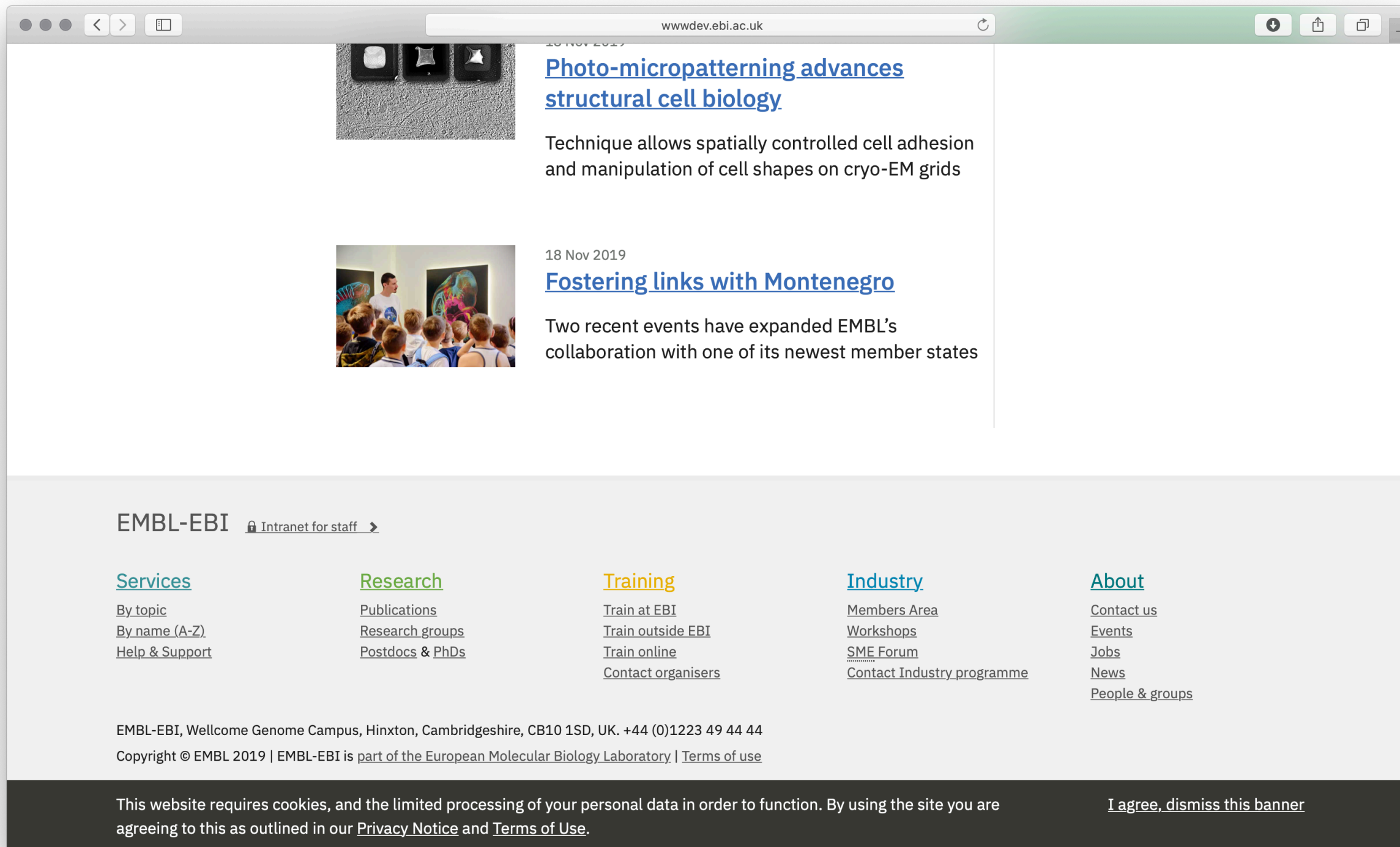
The Web Development team maintains the EMBL-EBI website, internal websites and websites for projects where EMBL-EBI is a collaborator. They provide User Experience Design consultancy to teams across the institute [Read more.](#)



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[Peter Walter](#)
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The screenshot shows a web browser window with the URL `npmjs.com`. The search bar contains `@visual-framework` and the results show 83 packages found. The packages listed are:

- @visual-framework/vf-core**: Visual Framework 2.0. Published by `khawkins98` on 2.0.0-beta.6, 8 days ago. Tags: design, system, css, visual, framework, VF, pattern, component, library.
- @visual-framework/vf-boilerplate-eleventy**: Build a site with Visual Framework components using the the Eleventy templating engine. Published by `khawkins98` on 2.0.0-alpha.14, 24 days ago.
- @visual-framework/vf-demo-desing-system**: A boilerplate and demo to make a VF-powered desing system. Published by `khawkins98` on 2.0.0-alpha.2, 3 months ago.
- @visual-framework/vf-text**: Vf-text component. Published by `khawkins98` on 1.0.0-beta.8, a month ago. Tags: fractal, component.
- @visual-framework/vf-sass-config**: Vf-sass-config. Tags: fractal, component.

Each package entry includes a small 'npm' logo and a 'Quality' indicator (a vertical bar with 'p', 'q', 'm' labels).

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npmjs.com

Search packages Search Join Log In

Need private packages and team management tools? [Check out npm Orgs. »](#)

@visual-framework/vf-divider

1.0.0-rc.8 • Public • Published a month ago

Readme 0 Dependencies 3 Dependents 34 Versions

Tip: Click on a version number to view a previous version's package page

Current Tags

1.0.0-rc.8 latest

Version History

1.0.0-rc.8	a month ago
1.0.0-rc.7	2 months ago
1.0.0-rc.6	2 months ago
1.0.0-rc.5	3 months ago
1.0.0-rc.4	3 months ago
1.0.0-rc.3	4 months ago
1.0.0-rc.2	4 months ago

install

```
> npm i @visual-framework/vf-divider
```

weekly downloads

42

version	license
1.0.0-rc.8	Apache 2.0

homepage

visual-framework...

last publish

a month ago

collaborators

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I need the version where the divider had more padding

```
npm install @visual-framework/vf-divider@0.0.28
```

- Developer Guidelines
 - Guidelines for creating, maintaining, deprecating, and versioning components.
 - Conventions for naming things, writing CSS, and authoring JavaScript.
- Design Tokens
 - Named entities that store visual design attributes.
 - Tokens for Sass Variables, Sass Maps, and CSS Custom Properties.
- CSS Architecture
 - Written in Sass, using BEM.
- Components
 - Elements that create Blocks that create Containers.
- Utility Classes
 - Classes created from Design Tokens for Colours, Typography, Spacing and more.
- A Monorepo
 - An easy way to install just what you need, when you need it.