# Design, develop and manage a catalog of Web Components

April, 20-21-22, 2021

## Horacio Gonzalez - @LostInBrittany

## {codemotion}

Online Tech Conference

- Spanish edition -



## Who are we?

## Introducing myself and introducing <del>OVH</del> OVHcloud









## Who are we?

## Introducing myself and introducing <del>OVH</del> OVHcloud







## Horacio Gonzalez

## @LostInBrittany

Spaniard lost in Brittany, developer, dreamer and all-around geek









DevFest du Bout du Monde









## **OVHcloud: A global leader**





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**Private Cloud** 

Web Cloud & Telcom



**Public Cloud** 



Storage



**Network & Security** 





**34 Points of Presence** on a 20 TBPS Bandwidth Network



115K Private Cloud **VMS** running



 $\overline{\mathbf{r}}$ 

**300K Public Cloud** instances running



**380K Physical Servers** running in our data centers



**20 Years in Business** Disrupting since 1999



**1.5 Million Customers** across 132 countries

**1** Million+ Servers

produced since 1999

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7/

**3.8 Million Websites** hosting



**1.5 Billion Euros Invested** since 2016



P.U.E. 1.09 **Energy efficiency indicator** 





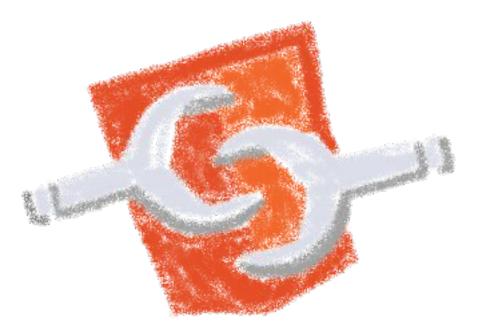






## The 3 minutes context

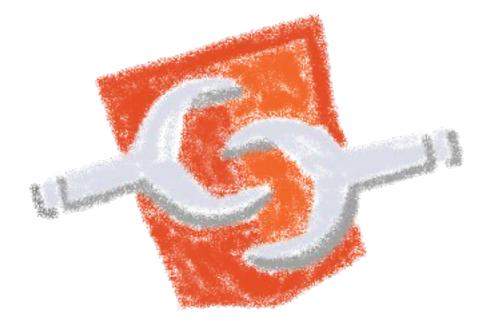
## What the heck are web component?









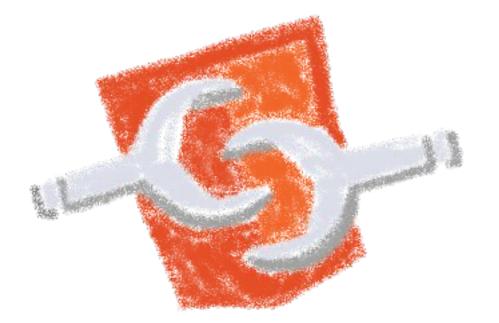


## Web standard W3C







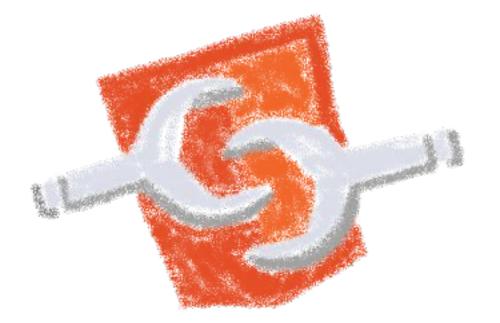


## Available in all modern browsers: Firefox, Safari, Chrome









Create your own HTML tags Encapsulating look and behavior

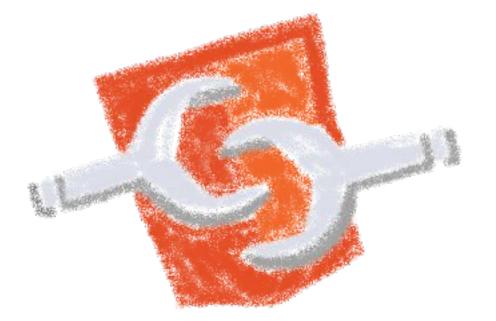


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## Fully interoperable

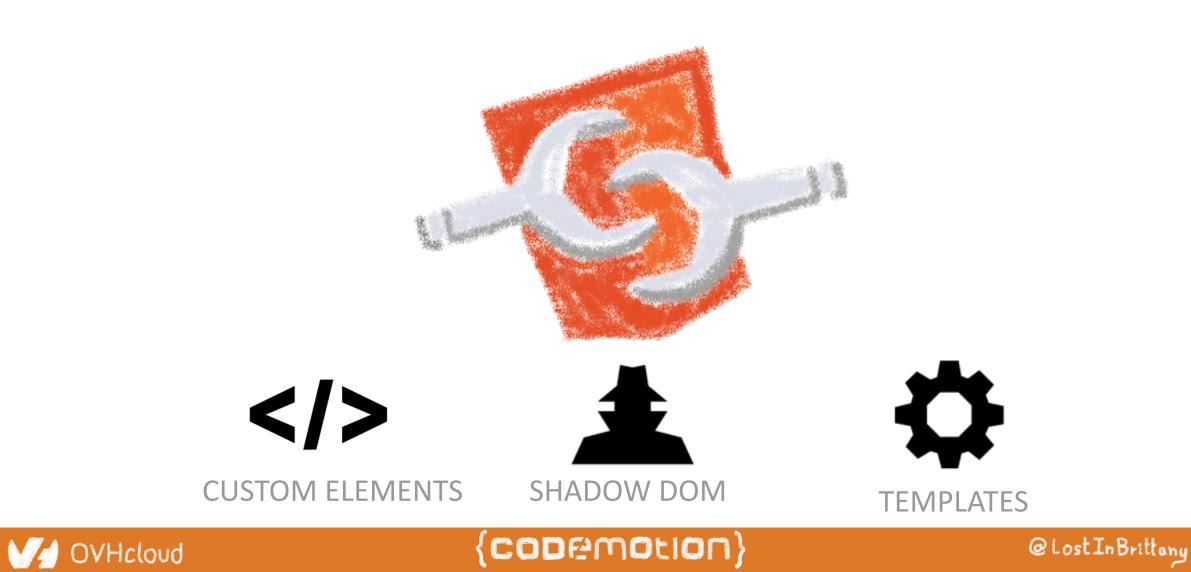
With other web components, with any framework







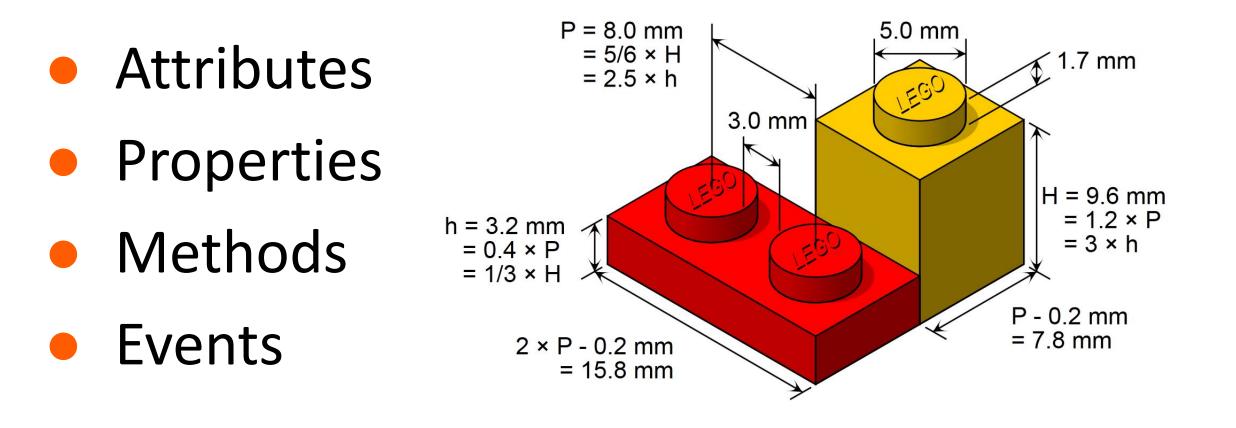




R.

## But in fact, it's just an element...











# So, what are Design Systems?

## And why should I look at them?

MATERIAL DESIGN	Principles		٢	
Material System Introduction Material studies Material Foundation				CONTENTS Color usage and palettes Color theme creation Tools for picking colors
Foundation overview	Hierarchical	Legible	Expressive	
Environment Layout	Color indicates which elements are interactive, how they relate to other elements, and their	Text and important elements, like icons, should meet legibility standards when appearing on	Show brand colors at memorable moments that reinforce your brand's style.	
Understanding layout Pixel density	level of prominence. Important elements should stand out the most.	colored backgrounds.		









## A talk for devs by a dev





## I am not a designer, neither I play one on TV...

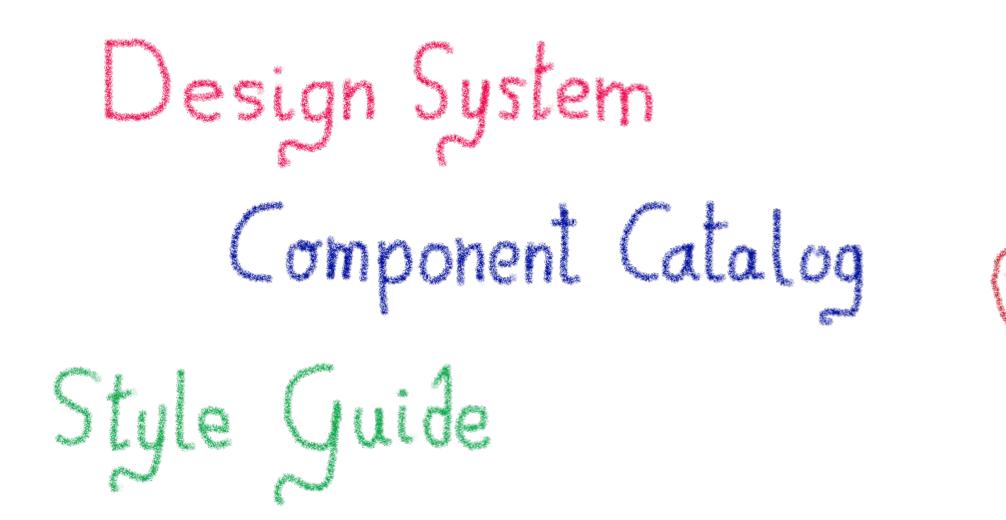






## The same or different?





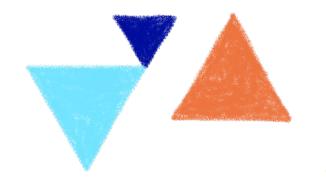








## A **document** listing the **styles**, **patterns**, **practices**, and **principles** of a brand **design standards**





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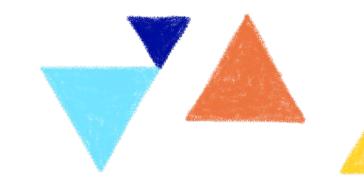


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## Style guides define the **application's look and feel**





{codemotion}



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## **Style Guide Example: Uber**



Uber	Brand story System elements Showcase Downloads Help / FAQ
Logo Brand Architecture Overview Visual Hierarchy Sub-brands Organizational brands Programs	Primary Lockup
Products Features Internal teams Partnerships Names in copy Guidance Applications Summary	Uber Primary Display Medium
Color Composition Iconography Illustration Motion	

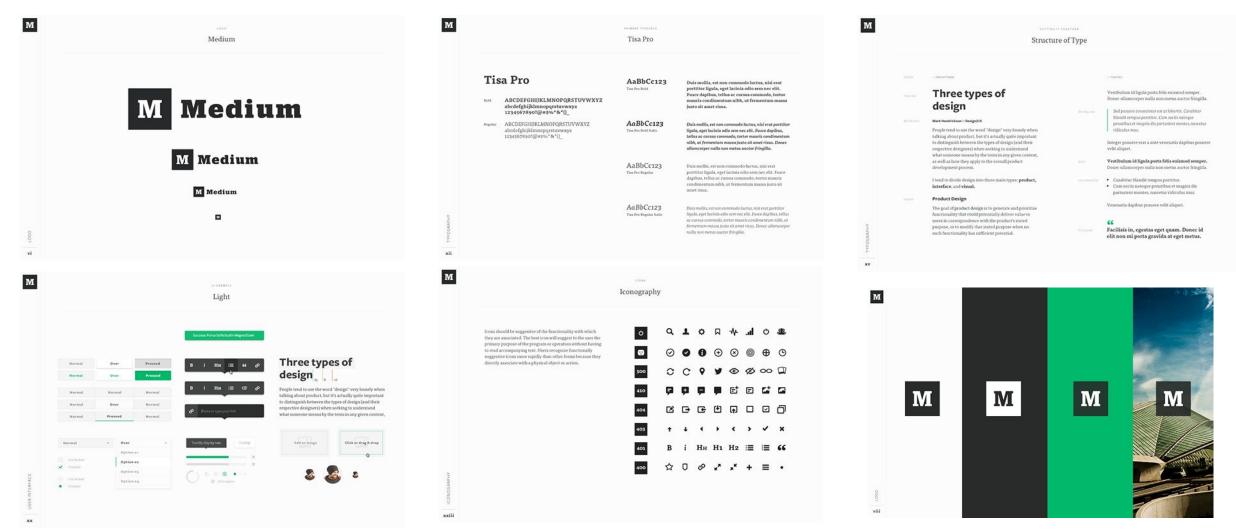
#### https://brand.uber.com/





## **Style Guide Example: Medium**





https://www.behance.net/gallery/7226653/Medium-Brand-Development



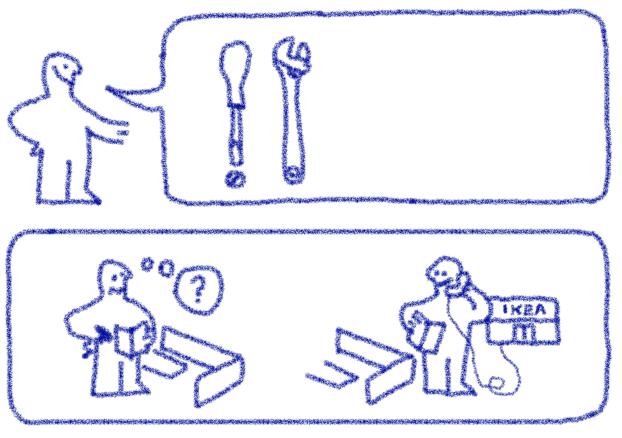
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## Style Guides alone are ambiguous





Interpretation needed to adapt the preconisation to the use case



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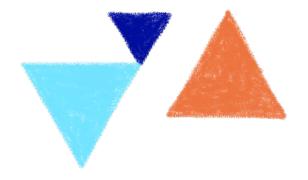


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## A **component catalog** is a **repository** of components, with one or several **implementations**, code **examples** and **technical documentation**









## **Component Catalog example: Bootstrap**

A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

A simple danger alert—check it out!

A simple dark alert—check it out!

<div class="alert alert-primary" role="alert">
 A simple primary alert-check it out!
 </div>
 <div class="alert alert-secondary" role="alert">
 A simple secondary alert-check it out!
 </div>
 <div class="alert alert-success" role="alert">
 A simple success alert-check it out!
 </div>



## Bootstrap

#### https://getbootstrap.com/





## **Component Catalog Example: ING's Lion**

Storybook 💮	Canvas D	)ocs 🕀	) #							
Q Press "/" to search	Date									
ΙΝΤΚΟ										
Lion Web Components										
Announcement										
🕨 🖽 Tabs Example										
FORMS				Da	te					×
Intro										
🕨 🗄 Features Overview										
🕨 🗄 Checkbox Group				<		Ju	ne 20	)20		>
) 🗅 Fieldset			-							
) 🗅 Field				Sun	Mon	Tue	Wed	Thu	Fri	Sat
🕨 🗅 Form				31	1	2	3	4	5	6
🕨 🗄 Input Amount										
🕨 🗄 Input Date				7	8	9	10	11	12	13
🕆 🖽 Input Datepicker										
🛛 Main				14	15	16	17	18	19	20
Minimum And Maximum Date				21	22	23	24	25	26	27
Disable Specific Dates										
Calendar Heading				28	29	30	1	2	3	4
Disabled										
Read Only										

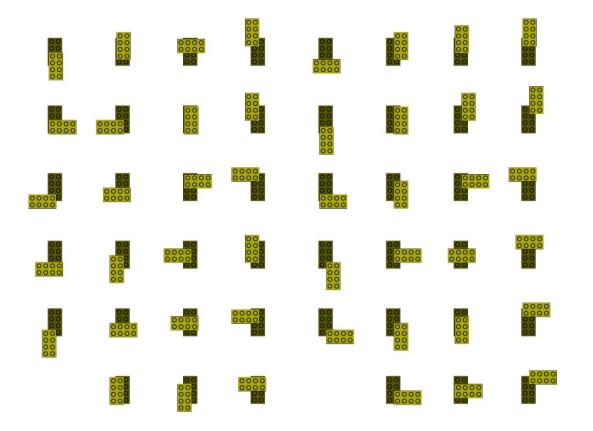
#### https://lion-web-components.netlify.app/





## **Catalogs alone create inconsistency**





Like using the same LEGO bricks to create very different objects



#### {codemotion}

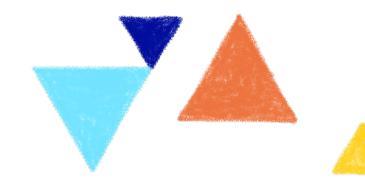


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## A Design System is like a **common visual language** for **product teams**















## A Design System is a set of **design standards**, **documentations**, and **principles**, alongside with the toolkit (**UI patterns** and **code components**) to achieve those standards







## **Design systems**



# Design System ≈ Style Guide + Component Catalog √€€





## **Example: Carbon Design System**



Carbon <b>Design System</b>			Q	
Get started	~			
About Carbon				
Design				
Develop				
Tutorial	$\sim$			
Guidelines	$\sim$	About Carbon		
Components	$\sim$			
Patterns	$\sim$			
Data visualization	$\sim$			
Resources				
How to contribute	$\sim$			
Updates	$\sim$	Carbon is IBM's open source design system for digital products		
Help	$\sim$	and experiences. With the IBM Design Language as its foundation,		
Community	~	the system consists of working code, design tools and resources, human interface guidelines, and a vibrant community of contributors.		
Design kit		→ Introduction		
GitHub		→ Guiding principles		
		Governance → Governance		
		Gertificate of Originality		

#### https://www.carbondesignsystem.com/



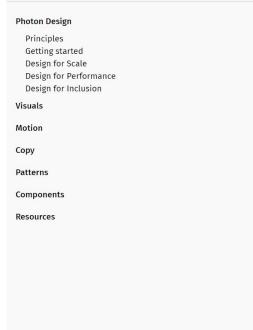
#### {copemotion}



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## **Example: Firefox's Photon Design System**

#### Photon Design System



#### Photon Design System

Launch recognizable, enjoyable Firefox products and features faster.



Photon is the Firefox design language to build modern, intuitive, delightful experiences, for products across all platforms – from mobile to desktop, from TV to the next big thing.

The Photon Design System houses guidelines, reusable UI components, templates, and other resources to help you create products for Firefox users. It is flexible and always evolving to serve the best Firefox experience for every situation.

Using this system will help make your work more efficient, and our products more consistent, while still looking, feeling, and sounding uniquely Firefox.

You can help us improve the system and ensure it remains current and relevant.

https://design.firefox.com/photon/

## V/d OVHcloud





## **Example: Material Design**



MATERIAL DESIGN		Design	Components	Develop	Resources	Q
▲ Material System Introduction Material studies	<b>Design</b> Create intuitive and beautiful products with Material Design		POPULAR <u>Material The</u> Iconography <u>Text fields</u>			
Material Foundation				h.		
Environment Layout					Ŷ	
Navigation						
Typography			4)	Y		
Sound						
Shape						

#### https://material.io/







## The component catalog

## The poor relative of the Design System family







## Let's choose a simple example



A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

A simple danger alert—check it out!

A simple dark alert—check it out!

<div class="alert alert-primary" role="alert">
 A simple primary alert-check it out!
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 A simple secondary alert-check it out!
 </div>
 <div class="alert alert-success" role="alert">
 A simple success alert-check it out!
 </div>



## Bootstrap

## Bootstrap based component catalogs

#### V/ OVHcloud

## {codemotion}

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## A long time ago

MTML





CSS

#### **Buttons**

#### **Default buttons**

Button styles can be applied to anything with the .btn class applied. However, typically you'll want to apply these to only <a> and <button> elements for the best rendering.

Button	class=""	Description	
Default	btn	Standard gray button with gradient	
Primary	btn btn-primary	Provides extra visual weight and identifies the primary action in a set of buttons	
Info	btn btn-info	Used as an alternative to the default styles	
Success	btn btn-success	Indicates a successful or positive action	
Warning	btn btn-warning	Indicates caution should be taken with this action	
Danger	btn btn-danger	Indicates a dangerous or potentially negative action	
Inverse	btn btn-inverse	Alternate dark gray button, not tied to a semantic action or use	
Link	btn btn-link	Deemphasize a button by making it look like a link while maintaining button behav or	lontetra

## Components defined in HTML, CSS and some jQuery











UI Bootstrap Directives - Getting started Previous docs -

## **UI** Bootstrap

Bootstrap components written in pure AngularJS by the AngularUI Team

Code on Github Download (2.5.0)



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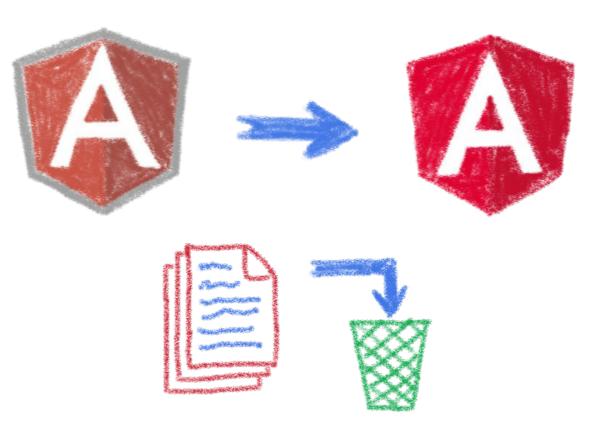
Getting started

OVHcloud

## And new reference implementations were needed

## But you know the sad story...





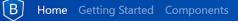
All UI Bootstrap based catalogs woke up with an obsolete implementation

#### V/d OVHcloud





## Worry no more, let's do Agular!





#### **Bootstrap widgets**

#### The angular way

Angular widgets built from the ground up using only Bootstrap 4 CSS with APIs designed for the Angular ecosystem.

No dependencies on 3rd party JavaScript.



Currently at v6.1.0









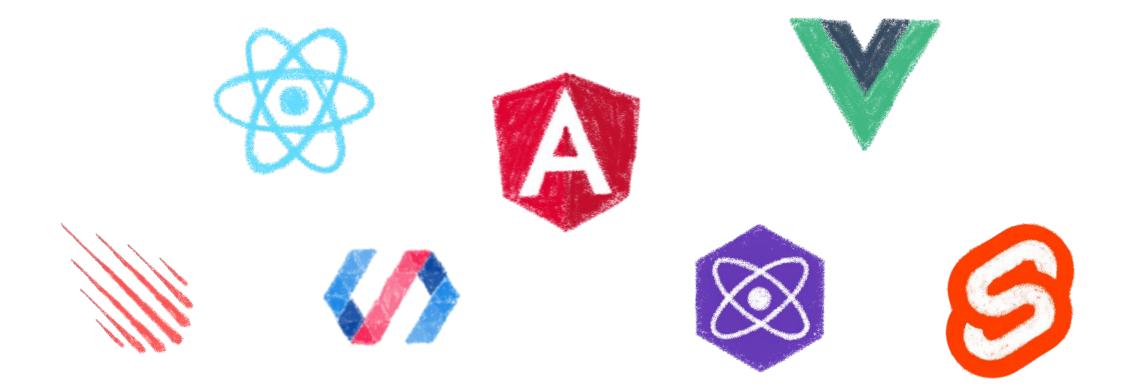




1,240,914

### But times had changed...





### In 2017 Angular is only one more in the clique

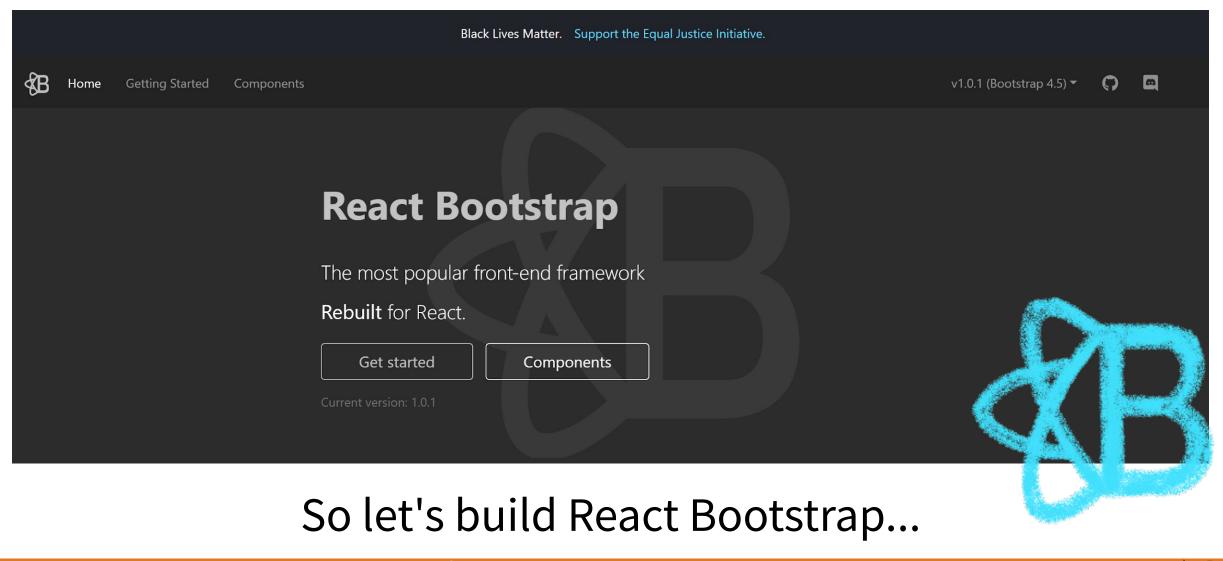






# React is the new Big Thing<sup>TM</sup>

OVHcloud



# Wait, what about We?







#### 0 9 v2.15.0 -

#### BootstrapVue

With BootstrapVue you can build responsive, mobile-first, and ARIA accessible projects on the web using Vue.js and the world's most popular front-end CSS library — Bootstrap v4.

B

Vue.js (pronounced /vju:/, like view) is a progressive framework for building user interfaces.

**Current Version** 

#### We also need BootstrapVue







# OK, I think you see my point...

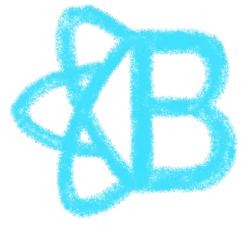






### Bootstrap





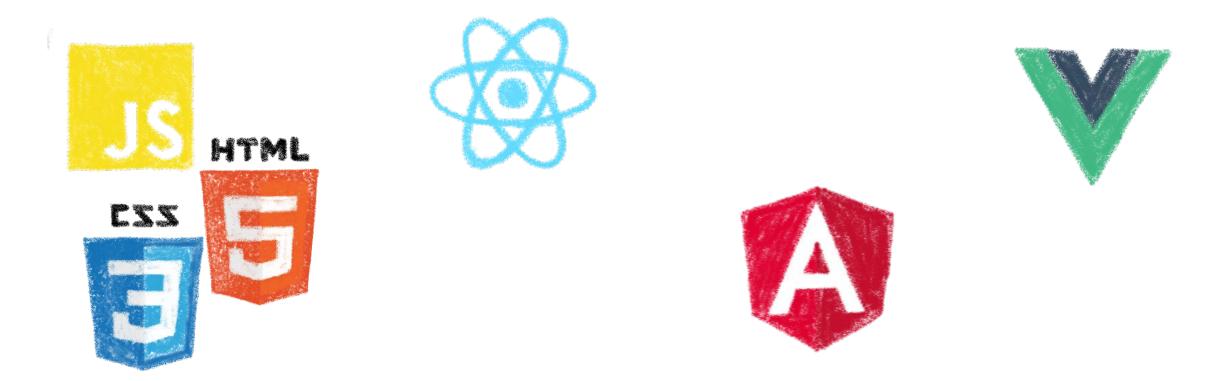






# Most Design System do a choice





Either they choose a canonical implementation or they ship and maintain several implementations

#### OVHcloud

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#### @Lost In Brittany



# **Both choices are problematic**











# **Both choices are problematic**



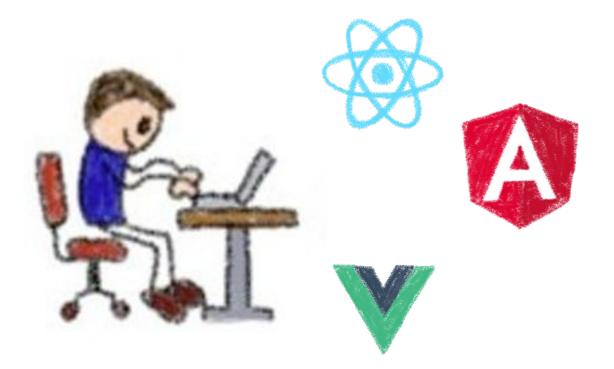






# **Incomplete catalogs are problematic**



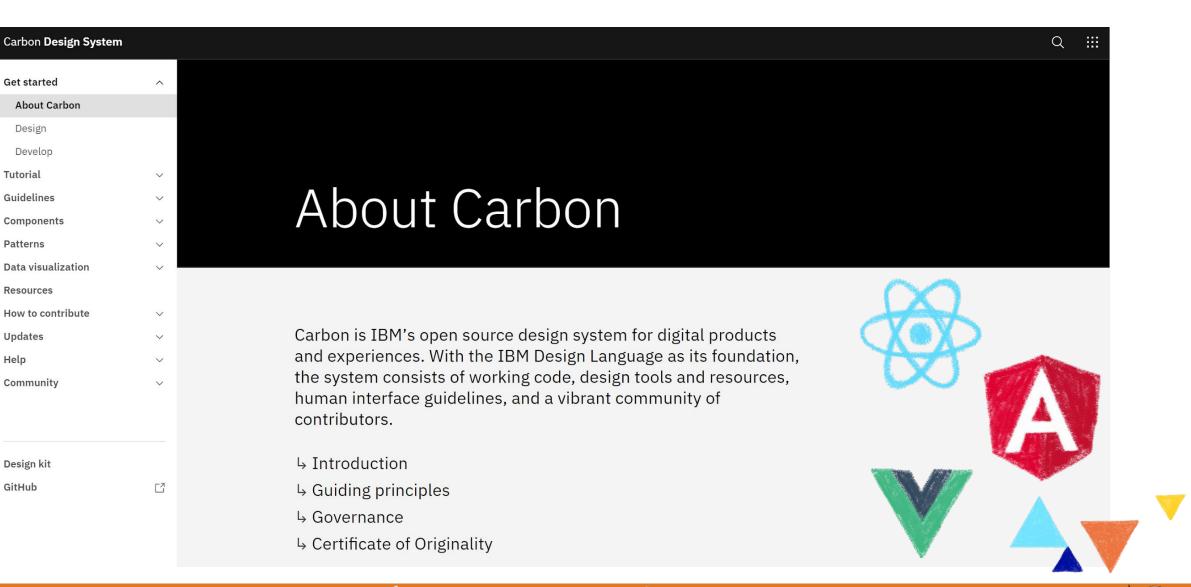


### People will need to recode the components in their chosen framework... Coherence is not guaranteed!!!





# **Example: Carbon Design System**



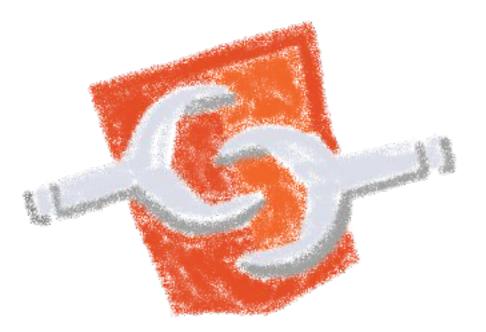
#### V/ OVHcloud





# Web Components & Design Systems

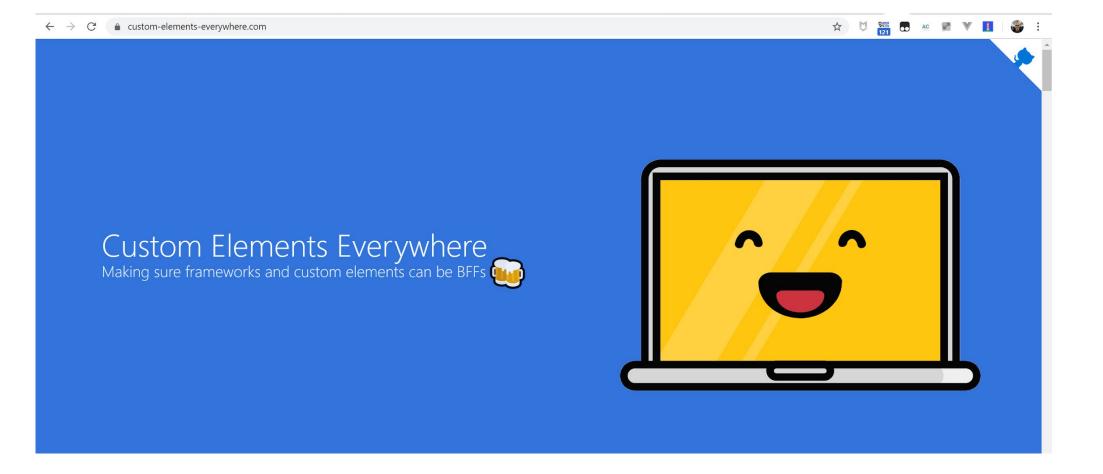
### A match made in heaven







# Compatibility is on Web Components side



#### Web Components everywhere, baby!





# They are truly everywhere 🚀



- spacexfsw 💉 Official SpaceX 🥕 102 points · 15 days ago
- The Crew Displays onboard Dragon runs Chromium with HTML, Javascript & CSS. We don't use LESS. - Sofian

We follow an agile process, we have high bar for unit test coverage and we have integration tests that runs with and without flight hardware. We also take a lot of pride in manually verifying and documenting our new features to make sure they work as intended and we have no regression. -Sofian

We use Web Components extensively. - Sofian

OVHcloud

We use a reactive programming library that we developed in house. - Sofian

Different team members uses different editors, I use VSCode but I might be just a little bit biased :) - Sofian

I will have to get back but overall code is our craft here and we make sure it's clean and tidy. I wouldn't expect something too outrageous. Fair warning, we have linters on everything. - Sofian

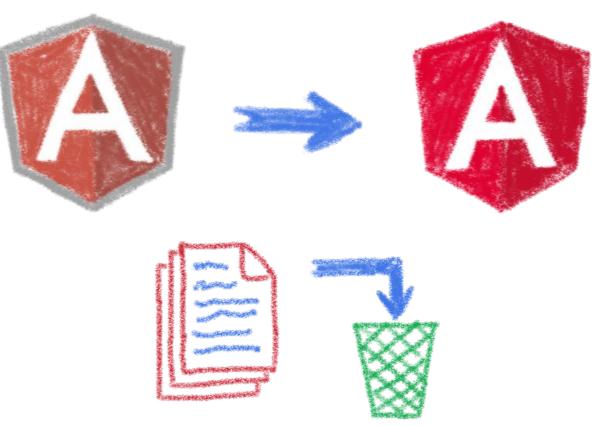






### Do you remember AngularJS?





### And all the code put in the trash bin when Angular arrived...



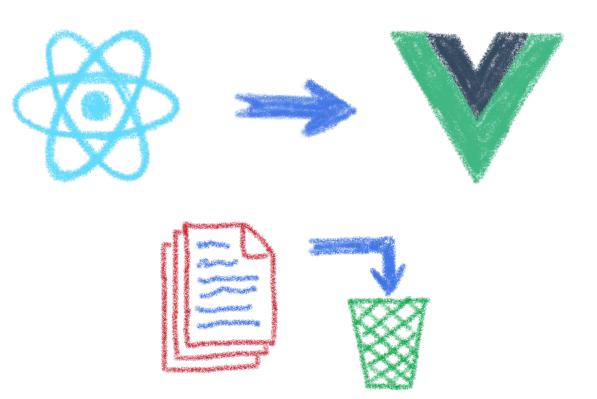
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# The pain of switching frameworks?





### Rewriting once again your code...

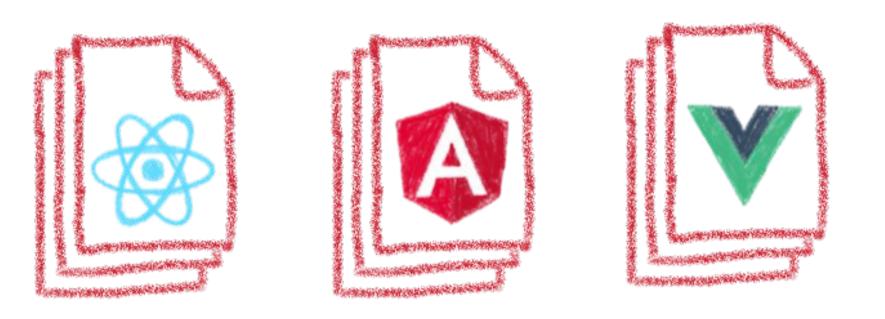


{codemotion}

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# The impossibility of sharing UI code?



### Between apps written with different frameworks

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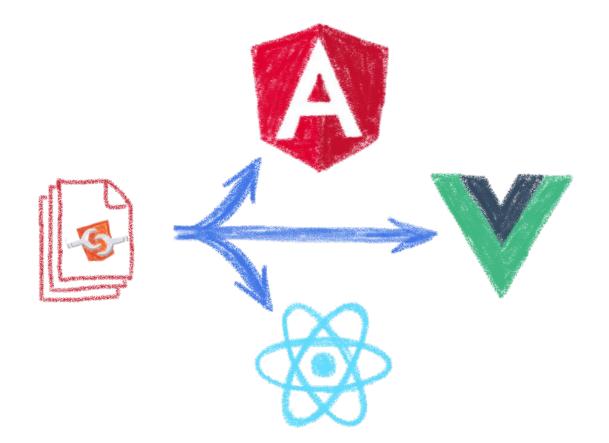
V/ OVHcloud





# Web Components change that





### In a clean and standard way





# They are the interoperable alternative





### Any framework... or no framework at all



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# You can have a single implementation





### And it simply works everywhere



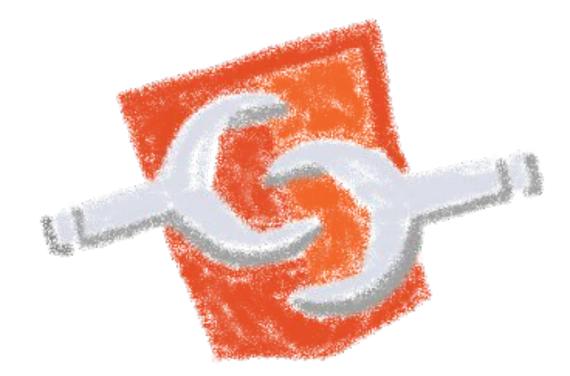
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# When you need interoperability





### Nothing beats the standard







# But how to do it?

### Designing, developing and managing a catalog of Web Components







# Learning from the best



Storybook	Canvas Doc	s 🕀	1 88 A							
Q Press "/" to search	Date									
INTRO										
Lion Web Components										
Announcement										
🕨 🖽 Tabs Example										
FORMS				Da	te					×
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🕨 🗀 Form				31	1	2	2	4	F	c
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🕆 🗄 Input Datepicker										
🛛 Main				14	15	16	17	18	19	20
Minimum And Maximum Date				21	22	23	24	25	26	27
Disable Specific Dates										
Calendar Heading				28	29	30	1	2	3	4
Disabled										
Read Only										

#### https://lion-web-components.netlify.app/

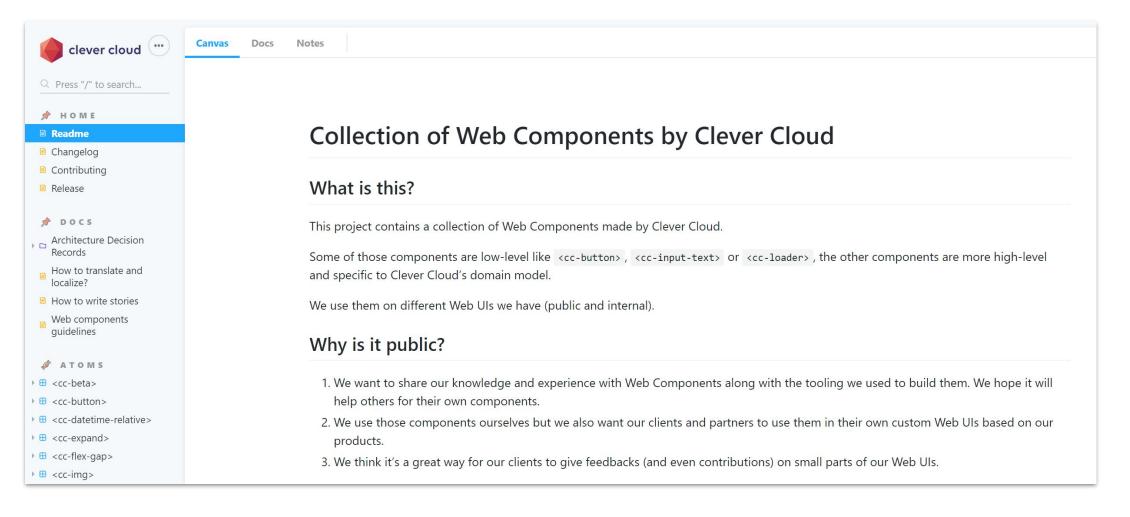






# Learning from the best





#### https://github.com/CleverCloud/clever-components

#### V/ OVHcloud

#### {codemotion}

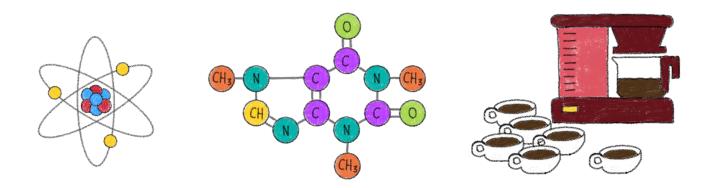
#### @Lost In Brittany





# What kind of components?

# From little atomic blocs to big smart components, and everything in between





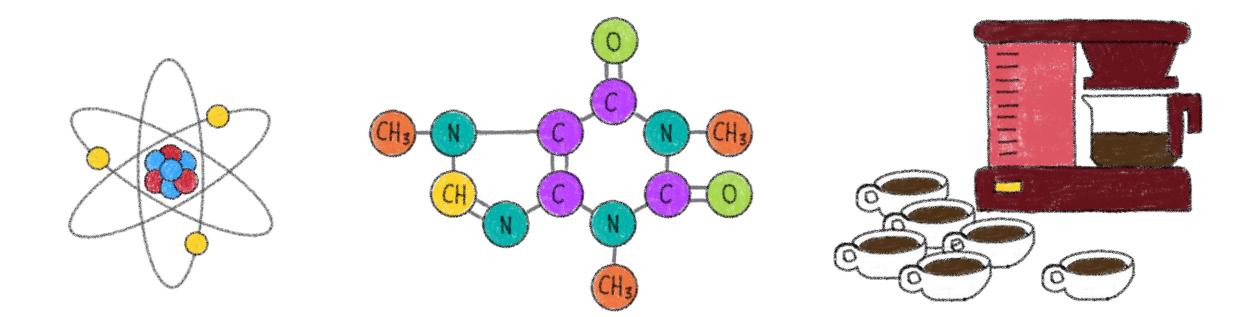






# A matter of size and complexity





### What kind(s) of components you want to build

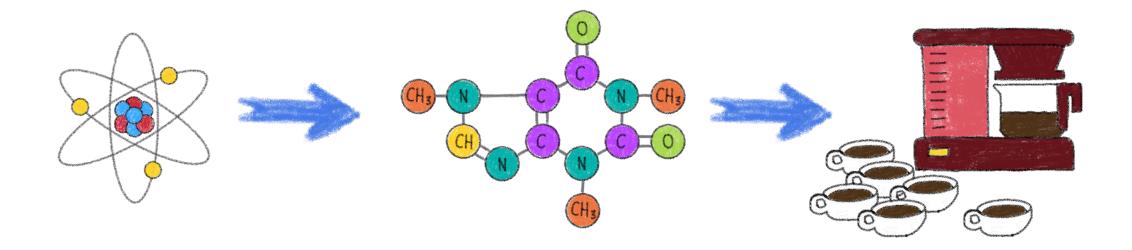






# Build from the bottom and go up







### Eat your own dog food



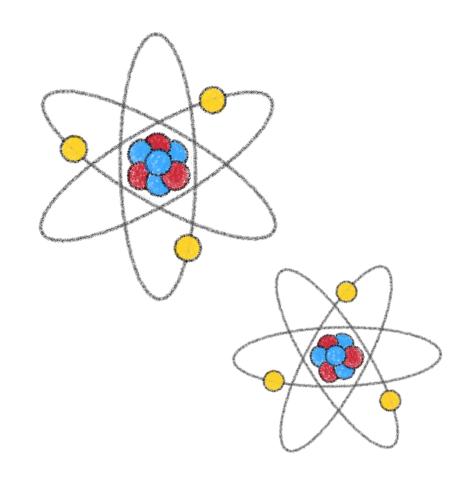




# And how to choose the atoms?



🕀 <cc-input-text></cc-input-text>	
Default	Canvas Docs Notes 🕀 🔍 🗹 🔳
📮 Label	
Clipboard	No value yet Some example text
Clipboard (auto adjust)	
Clipboard (auto adjust and CSS override)	Disabled value Readonly value
Secret	
Clipboard and secret	Copy to clipboard
Long value	
📮 Tags	•••••••••
Tags (clipboard)	
📮 Tags (label)	
🗄 <cc-loader></cc-loader>	
🗄 <cc-toggle></cc-toggle>	Line one
	Line two
🛷 MOLECULES	Line three
· ⊞ <cc-block></cc-block>	<pre>tag1 tag2 tag-name:tag-value very-very-very-</pre>
← 🕀 <cc-error></cc-error>	very-long-tag
	, , ,



### Flexibility and configurability are key

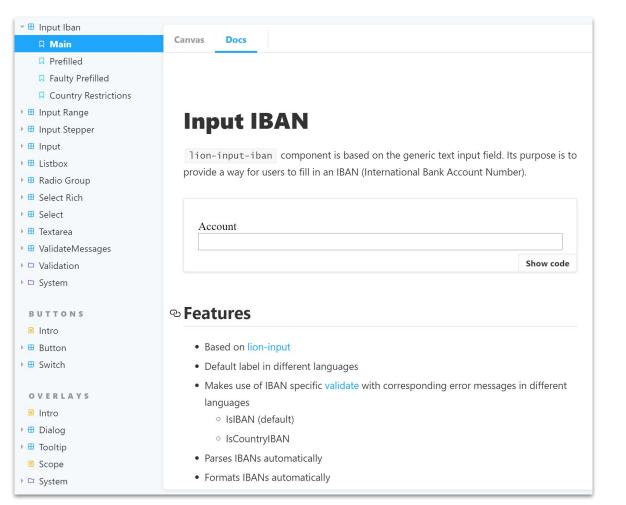


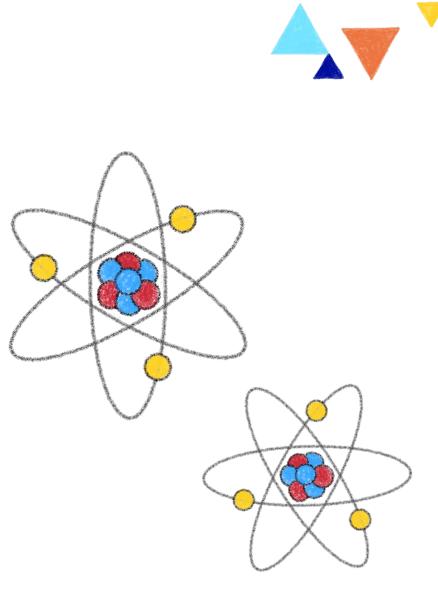
#### {codemotion}

@LostInBrittany



### And how to choose the atoms?





### Encode often used patterns



#### {codemotion}



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# And what about the molecules?

Notes

Canvas

Docs



Clipboard and secret
 Long value
 Tags

□ Tags (clipboard)

Tags (label)

- ▶ 🗄 <cc-loader>
- General control contro control control control control control control control control

#### 🗳 MOLECULES

⊞	<cc-b< th=""><th>loc</th><th>k-se</th><th>ctio</th><th>n</th></cc-b<>	loc	k-se	ctio	n

- - Default
  - 📮 Overlay (loader)
  - Overlay (error alert)
  - 🛛 Icon
  - Button
  - State (open)
  - State (close)
  - State (overflow)

Icon and open

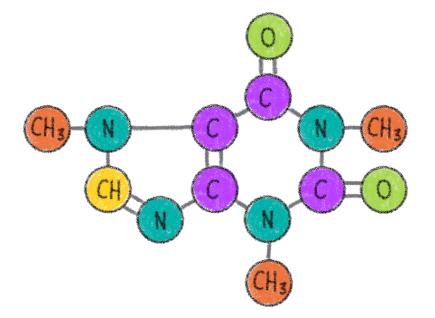
error



⊕ Q Q 🛛 🗖

dignissim. Etiam ut purus ultrices, pulvinar tellus quis, cursus massa. Mauris dignissim accumsan ex, at vestibulum lectus fermentum id. Quisque nec magna arcu. Quisque in metus sed erat sodales euismod eget id purus. Sed sagittis rhoncus mauris. Ut sit amet urna ac nunc semper porta. Nam ut felis eu velit luctus rutrum. Nam leo nisl, molestie a varius non, ullamcorper sit amet tortor. Donec in convallis ex. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae; Praesent hendrerit venenatis erat, eu malesuada nulla viverra eu. Curabitur porta risus augue, non rutrum lectus hendrerit a.

Sed volutpat dolor nec rutrum vulputate.



### Capitalize on your atoms Keep the flexibility and configurability

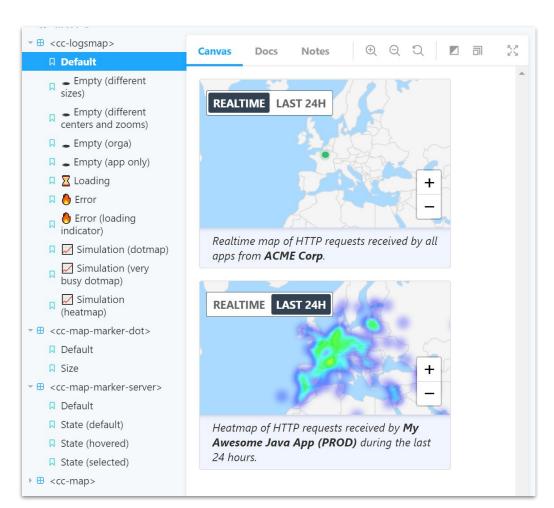
#### V/d OVHcloud

#### {codemotion}

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# **Big smart business components**





### Encoding your business logic



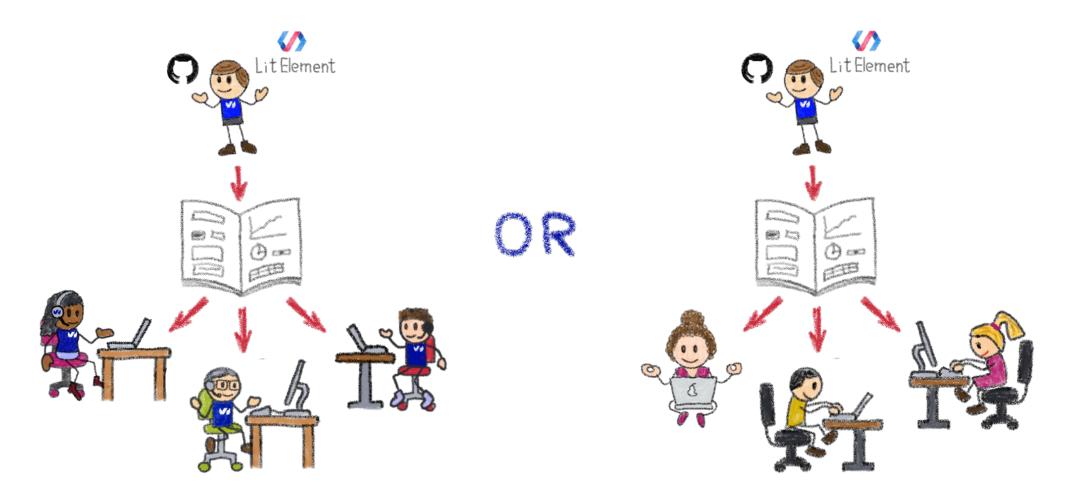
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#### @Lost In Brittony



# Internal or external customers?





### Who are your target users?



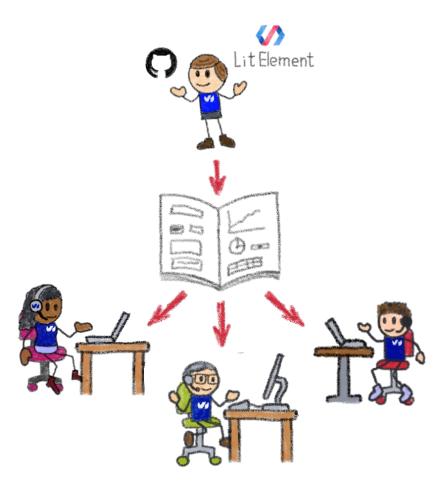
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### Internal customers need off-the-shelf components





### A well defined and coherent look-and-feel



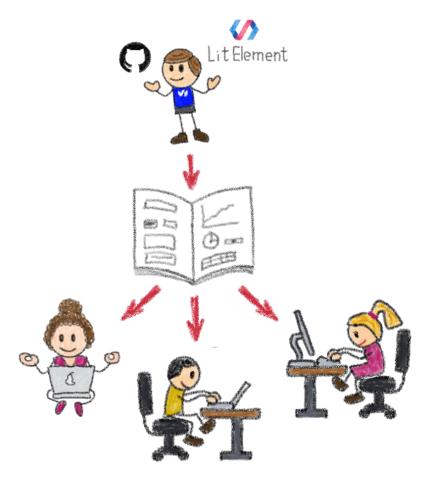
{codemotion}



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#### External customers need to be able to tweak





### Theming and customizing components









# How to organize the catalog

### Packages, imports and pragmatism









# A single repository



Search or jump to	Pulls Issues Codespaces Marketplac	e Explore 🗘 + 🛛 😨 🗸
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accordion	chore: setup to test on all evergreen browser	s 2 days ago
ajax	chore: setup to test on all evergreen browser	s 2 days ago
babel-plugin-extend-docs	fix(form-core): remove usage of Public Class	Fields to not break builds last month
button	chore: setup to test on all evergreen browser	s 2 days ago
Calendar	chore: adjust tests so they are sucessfull on fi	refox as well 2 days ago
checkbox-group	chore: setup to test on all evergreen browser	s 2 days ago
collapsible	chore: adjust tests so they are sucessfull on fi	refox as well 2 days ago
combobox	chore: setup to test on all evergreen browser	s 2 days ago

### Single source of truth for the catalog



#### {codemotion}



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# Two schools of thought



Lion web components is logically organized in groups of systems.

The accessibility column indicates whether the functionality is accessible in its core. Aspects like styling and content determine actual accessibility in usage.

Package	Version	Description	Accessibility
Form System		A system that lets you make complex forms with ease, including: validation, translations.	*
combobox	npm v0.1.2	Text box controlling popup listbox	<b>~</b>
form	npm v0.7.1	Wrapper for multiple form elements	<b>~</b>
form-core	npm v0.6.3	Core functionality for all form controls	✓
form- integrations	npm v0.3.5	Shows form elements in an integrated way	~
fieldset	npm v0.15.1	Group for form inputs	<b>~</b>
checkbox-group	npm v0.12.1	Group of checkboxes	~
input	npm v0.10.1	Input element for strings	× /
nput-amount	npm v0.8.1	Input element for amounts	× /
nput-date	npm v0.8.1	Input element for dates	× ()
input- datepicker	npm v0.17.0	Input element for dates with a datepicker	× X
nput-email	npm v0.9.1	Input element for e-mails	× 6
nput-iban	npm v0.10.1	Input element for IBANs	× ()
nput-range	npm v0.5.1	Input element for a range of values	<ul> <li></li> <li></li></ul>

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### A packet per component or a global one







# Two schools of thought



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Form System		A system that lets you make complex forms with ease, including: validation, translations.	*
combobox	npm v0.1.2	Text box controlling popup listbox	<b>v</b>
form	npm v0.7.1	Wrapper for multiple form elements	~
form-core	npm v0.6.3	Core functionality for all form controls	~
form- ntegrations	npm v0.3.5	Shows form elements in an integrated way	*
fieldset	npm v0.15.1	Group for form inputs	<b>v</b>
checkbox-group	npm v0.12.1	Group of checkboxes	~
nput	npm v0.10.1	Input element for strings	× /
nput-amount	npm v0.8.1	Input element for amounts	~
nput-date	npm v0.8.1	Input element for dates	~
nput- datepicker	npm v0.17.0	Input element for dates with a datepicker	×
nput-email	npm v0.9.1	Input element for e-mails	× 6
nput-iban	npm v0.10.1	Input element for IBANs	<ul><li>(1)</li></ul>
nput-range	npm v0.5.1	Input element for a range of values	× N

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-	d <b>/components</b> • Published 2 months ago					
🖹 Readme	Explore BETA	10 Dependencies	🖧 0 Dep	endents	🏷 76	Versions
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### Individual versioning vs global one







## Lots of web components libraries





### For different needs and sensibilities



{codemotion}



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## Which ones to use?



HOME Readme	Collection of Web Components by Clever Cloud What is this?		Action Sheet	<b>UI Components</b> Ionic apps are made of high-level building blocks called Components, which allow you to quickly construct the UI for your app. Ionic comes stock with a number of components,		
© Changelog © Contributing © Release ♥ ₽ 0 € 5			ion-action-sheet Alert			
Architecture Decision	This project contains a collection of Web Components made by Clever Cloud.		ion-alert			
Records How to translate and localize? How to write stories Web components quidelines	S Storybook	Canvas Docs	Badge ion-badge	including cards, lists, and tabs. Once for a complete list of each compone	e you're familiar with the basics, refer t ent and sub-component.	o the API Index
<pre>^ A T O M S <cc-beta> <cc-button></cc-button></cc-beta></pre>	Lion Web Components      Announcement      Tabs Example	Lion Web Components	Button ion-button			
<cc-datetime-relative> <cc-expand> <cc-flex-gap></cc-flex-gap></cc-expand></cc-datetime-relative>	FORMS	Lion web components is a set of highly performant, accessible and flexible Web Components. They provide an unopinionated, white label layer that can be extended to your own layer of components. For some more details see the announcement blog post.	ion-ripple-effect Card		Alert	2 Badge
cc-img>	<ul> <li>♥ Features Overview</li> <li>♥ Checkbox Group</li> <li>&gt; □ Combobox</li> </ul>	TODOs 124	ion-card ion-card-content		Alert Alerts are a great way to offer the user the ability to choose a specific action or list of actions.	Badge Badges are a small component that typically communicate a numerical value to the user.
	<ul> <li>Combobox</li> <li>Fieldset</li> <li>Field</li> </ul>	Demos	ion-card-header ion-card-subtitle ion-card-title	_		
	<ul> <li>▷ Form</li> <li>♥ Input Amount</li> <li>♥ Input Date</li> </ul>	We do have a live Storybook which shows all our components.  Please note: This project uses Yarn Workspaces. If you want to run all demos locally you need to get Yarn and Institution of the story of t	Checkbox	Action Sheet		$\bigcirc$
	<ul> <li>♥ Input Datepicker</li> <li>♥ Input Email</li> </ul>	install all dependencies by executing yarn install . The code examples make use of Javascript tagged template literals which are a key component of the lit-html	ion-checkbox	Action Sheets display a set of options with the ability to confirm or cancel an action.	Button Buttons let your users take action. They're an essential way to interact with and navigate	Card Cards are a great way to display an importar piece of content, and can contain images.
	> ⊞ Input Iban > ⊞ Input Range	engine used in Lion. Additionally imports like import '@lion/form/lion-form.js' need to be transformed somehow, for example by es-dev-server.	Chip ion-chip		through an app.	buttons, text, and more.





### All are good, but these are popular favorites

#### V/ OVHcloud

#### {codemotion}

#### @LostInBrittany





# **Driving-up adoption**

### Making devs use your components







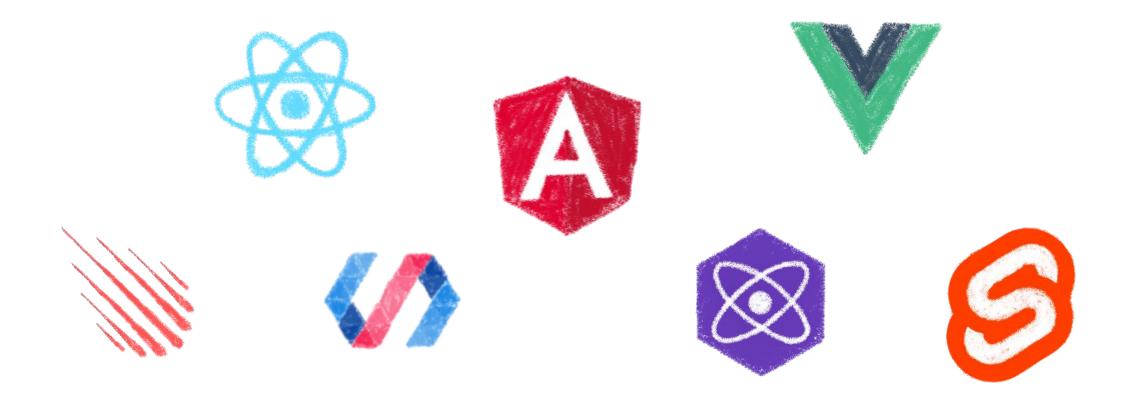






## Think who are your target users





### Users of any framework current or future...







## They aren't used to your library



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> NPM SCRIPTS > WSL: Ubuntu ⊗ 0 ▲ 0	33 Ln 1, Col 1 Spaces: 2 UTF-8 LF Type	eScript React 3.7.3 🙂 📮
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### And they shouldn't need to be

#### V/ OVHcloud

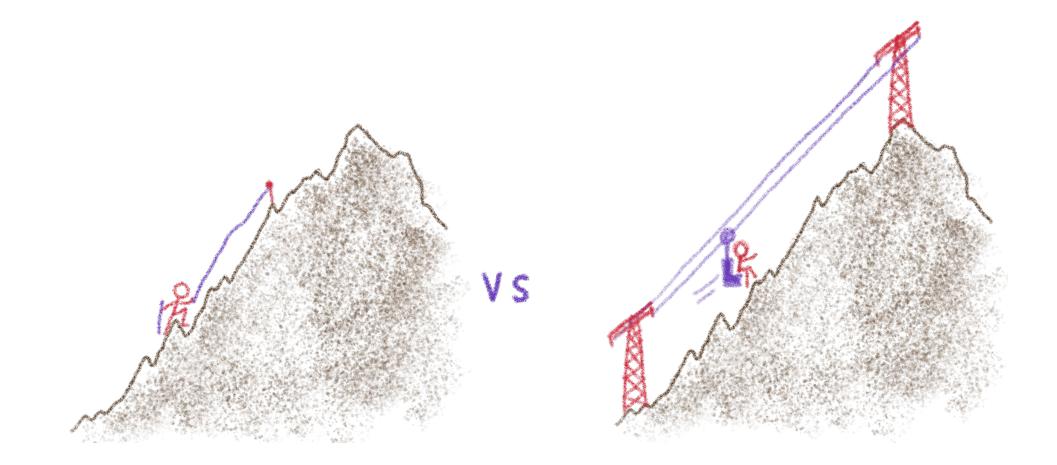
#### {codemotion}

#### @Lost In Brittany



## Go the extra mile to drive up adoption





### So they don't need to do it



{codemotion}



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## Make it easy to use



How to install npm i @lion/<package-name> How to use Use a Web Component <script type="module"> import '@lion/input/lion-input.js'; </script> <lion-input name="firstName"></lion-input>

### As easy as a HTML tag







## **Document every composant**



#### Input IBAN

V/ OVHcloud

lion-input-iban component is based on the generic text input field. Its purpose is to provide a way for users to fill in an IBAN (International Bank Account Number).

```
import { html } from 'lit-html';
import { loadDefaultFeedbackMessages } from '@lion/validate-messages';
import { IsCountryIBAN } from './src/validators.js';
import './lion-input-iban.js';
export default {
   title: 'Forms/Input Iban',
   };
loadDefaultFeedbackMessages();
export const main = () => {
   return html` <lion-input-iban label="Account" name="account"></lion-input-iban>`;
};
```

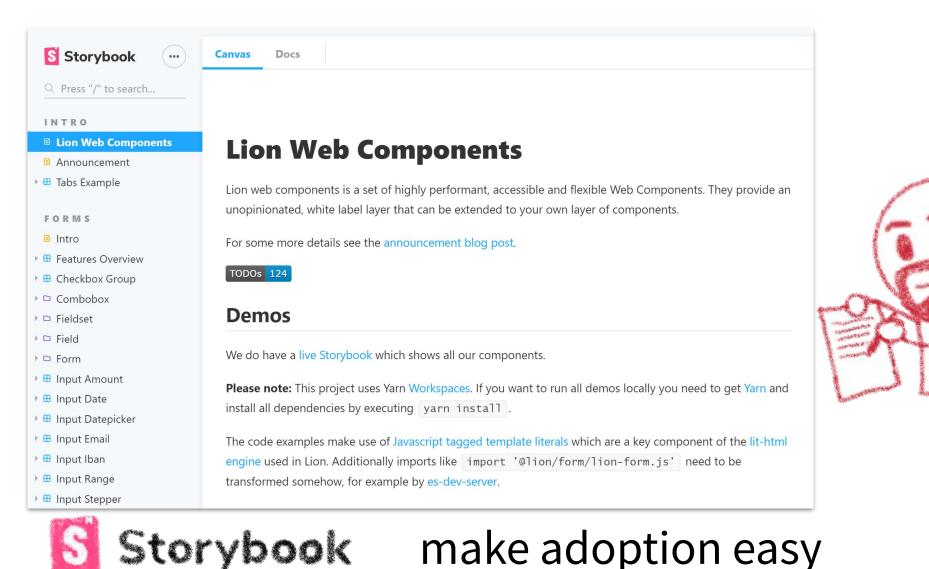


### How to use, inputs/outputs, examples...



## **Documentation isn't enough**







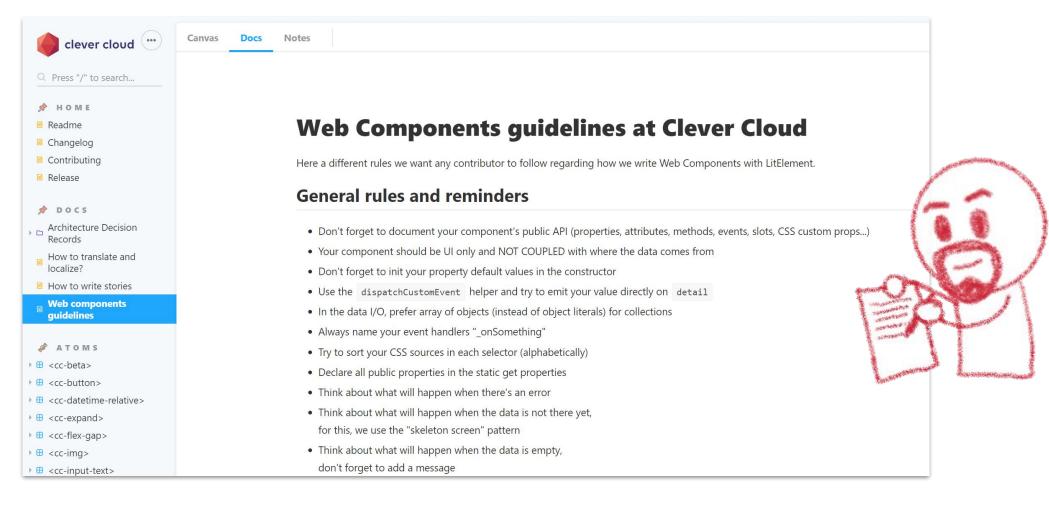
#### V/ OVHcloud

#### @LostInBrittany



## Keeping a coherent writing style





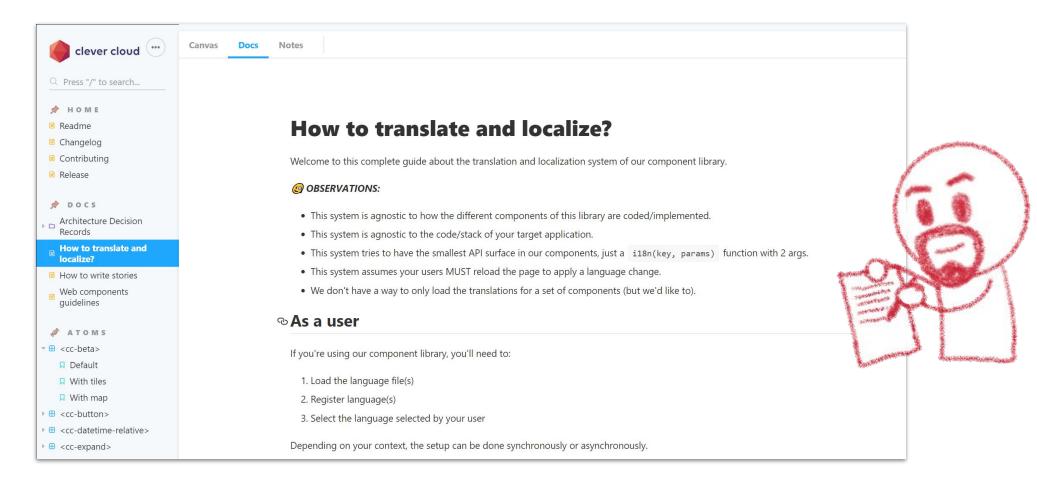
### Write down your guidelines





## **I18n shouldn't be an afterthought**





### Prepare everything for internationalization

#### V/ OVHcloud

#### {codemotion}

#### @Lost In Brittany





# That's all, folks!

## Thank you all!





