# Orange Open-Source Design System and Its Bootstrap Fork

by Julien Déramond



#### 10 Years Ago...

back to 2013-2014

Accessibility was already in Orange DNA

The dedicated transversal accessibility entity was:

- providing guidelines
  - Orange digital accessibility guidelines at https://a11y-guidelines.orange.com
- sharing best practices
- providing support and training to the teams
- auditing the Orange digital products

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And 10 years ago, they were already repeating over and over the same things during the audits.

Stuff like:

A <div> is not a <button>!

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### Create a web Ul library with reusable components

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## Create a web UI library with reusable components

- But
  - it required a lot of resources
  - it wasn't too common back then (at least, not as common as it is today)

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## Create a web Ul library with reusable components

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  - it required a lot of resources
  - it wasn't too common back then (at least, not as common as it is today)
- Studied the existing open-source UI libraries and frameworks
  - Reuse something and not reinvent the wheel
  - Bootstrap started to be a reference



Stars 168k

HTML, CSS, JavaScript framework

Customizable components with Sass

CDN compatible

Utilities and helpers

Responsive design

#### Let's Make a Fork of Bootstrap!

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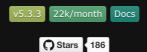
#### Let's Make a Fork of Bootstrap!

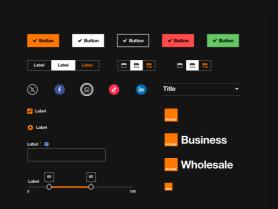
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- 1. Audit of Bootstrap → really good accessibility compliance
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- 3. **Customization of Bootstrap** → automatically apply the brand and design guidelines

### Boosted

Build fast, responsive sites with Boosted





HTML, CSS, JS framework

**Customized Orange components** 

Accessible

Utilities and helpers

Responsive design

### Free

features and improvements

bug fixes

security fixes

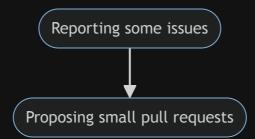
accessibility fixes

testing by millions of users in different

contexts

#### First Upstream Contributions to Bootstrap

between 2013 and 2018

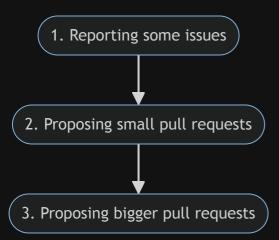


between 2018 and 2020

Boosted had finally a full-time dedicated maintainer who followed the same pattern:

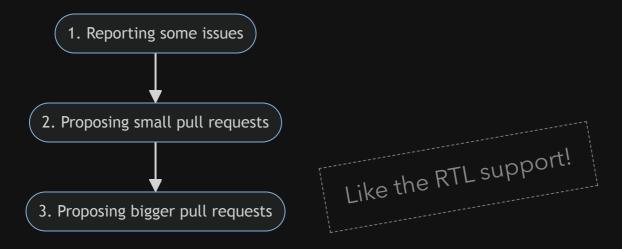
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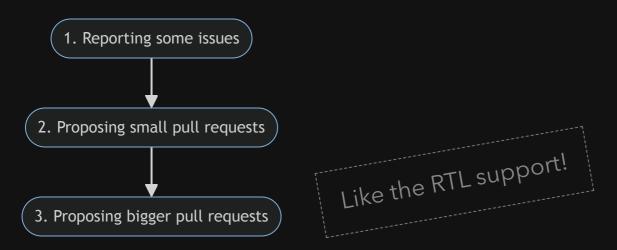
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Thanks to his great contributions, Gaël Poupard (@ffoodd) was invited to join the Bootstrap core team.

#### **Boosted: Starting Point of Orange Design System**

- Orange Design System was created in 2020.
- Boosted was at the core of it for the tech part as it was:
  - 1. already widely used (by hundreds of projects)
  - 2. qualitative
  - 3. and accessible

#### **Boosted: Starting Point of Orange Design System**

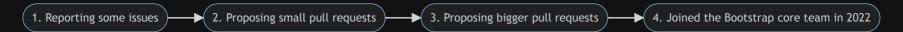
- Orange Design System was created in 2020.
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  - 1. already widely used (by hundreds of projects)
  - 2. qualitative
  - 3. and accessible
- What's a design system? It's a big toolbox containing all the elements one needs to build a digital product such as a website or an application. It's a set of design guidelines, assets, icons, components, tech libraries, accessibility guidelines, etc. Everything for a consistent great user experience for a brand or a company.

#### Team's Bigger, Contributions Are Bigger

In 2020, change of hands.

The previous maintainer left Orange.

I became the new maintainer of Boosted, and quickly followed the same pattern of upstream contributions:



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Same upstream contributions pattern was followed by another member of the current Boosted core team months later who also became Bootstrap's core team member.

#### **Contributions Linked to Orange**

Data manually gathered the 7th of June 2024, it may contain errors

Contribution type	Linked to Orange	Bootstrap	Percentage linked to Orange
Issues (created)	104	774	13%
Pull requests (created)	840	1,753	47%
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- 10 developers linked to Orange have contributed to Bootstrap along the years
- 4 developers linked to Orange are in the Bootstrap's core team (not all of them are still active)
- 2 developers linked to Orange are in the top 8 contributors of all time (4 in the top 20)

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#### "Linked to Orange" because:

- some are not Orange employees anymore,
- some are still working at Orange,
- and some contribute on their spare time

#### Win-Win Relationship

Between Orange and Bootstrap

Now, we can say that the relationship between Orange and Bootstrap is a win-win relationship.

- Orange benefits from the free aspect of Bootstrap.
- Bootstrap benefits from the contributions of the Orange team, and the maintainers that are part of the core team.

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△ There's a subtlety here as my contributions started on Orange time, but now are mostly done on my spare time.

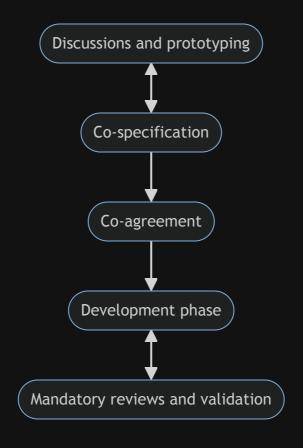
#### **Open-Source Design System**

Each tech repository is open-source with an MIT license.

- 1 web framework: our fork of Bootstrap, Boosted
- 2 web libraries
  - a map/cartography library based on Leaflet
  - a charts library based on Apache ECharts
- 3 mobile libraries for Android, iOS, and Flutter
- 3 Orange themes for Jekyll, MkDocs, and Storybook

#### **ODS Simplified Development Process**

Designers, developers, and accessibility experts meet weekly



#### Julien Déramond

Now, let me introduce myself without spoiling the presentation



Orange Design System tech lead



Maintainer of Boosted and Orange Design System web libraries, and tools



Bootstrap core team member



openresource.dev creator







#### Thank you!

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