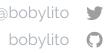




Alexandre Stanislawski
Software engineer / Algolia



### About me

- > Software engineer at Algolia
- > Lead of InstantSearch.js
- > Side topic: docs of our main libraries

# Algolia + docs = <3

Dedicated documentation team

DocSearch (React, vue.js, Laravel...)

Main libraries have their documentation websites

# And now a little story



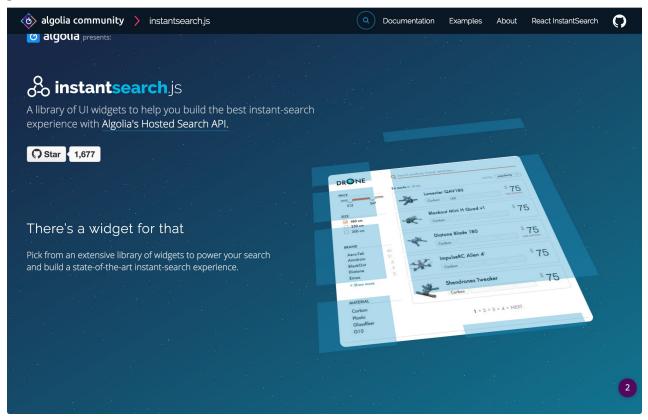


### 2015: InstantSearch.js v1





# Jekyll was cool





### JsDoc less so

#### Class: InstantSearch

#### InstantSearch()

The actual implementation of the InstantSearch. This is created using the `instantsearch` factory function.

#### Constructor

new InstantSearch()

Source:

lib/InstantSearch.js, line 35

#### Fires:

• Instantsearch#event:render This event is triggered each time a render is done

#### Methods

addWidget(widget) → {undefined}

Add a widget

#### Parameters:

Name	Туре	Description
widget	_	The widget to add to InstantSearch. Widgets are simple objects that have methods that map the search lifecycle in a UI perspective. Usually widgets are created by [widget factories](widgets.html) like the one provided with InstantSearch.js.

Source:

lib/InstantSearch.js, line 84

#### Home

#### Modules

widgets instantsearch

Externals

HTMLElement SearchParameters

Classes

InstantSearch

**Events** 

render

#### Global

bemHelper getContainerNode hashUrlUtils isDomElement modernUrlUtils prepareTemplateProps urlSync



# jsDoc: 1 word, two things

- > the tool
- > the annotations in the code





### Reasons for keeping annotations

- > **Exhaustivity**: all annotations are translated into doc
- > **Collocation**: doc lives with the code





### Before it was cool...

Documentation generators (like JSDoc) are the ancestors of static website generators

They do the same for docs than Jekyll does for blogs.



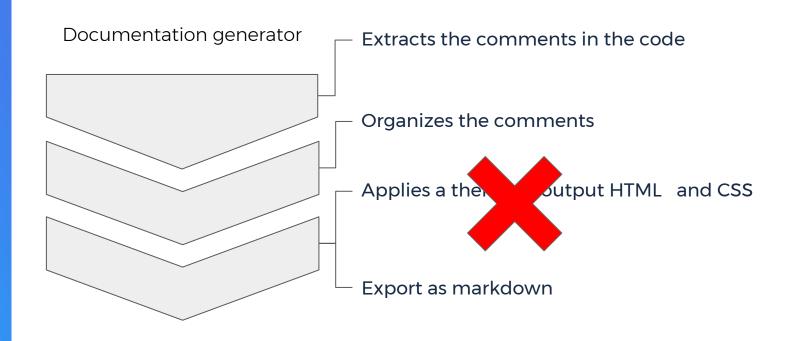


# And they haven't aged well

- > poor / unique templating system
- > no css preprocessor
- > no modern js stack

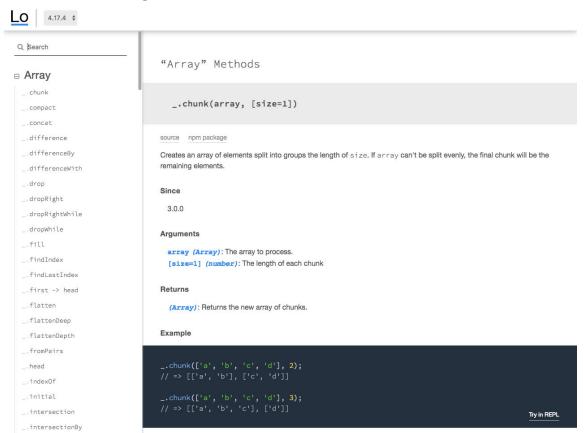


# Integrate the JSDoc in Jekyll?





### Not the only one!







### Our solution

- 1. A script generates markdown files from \*.js
- 2. The markdown can then be integrated to Jekyll

And in our case, we used jsdoc-to-markdown

#### Introduction

#### Setup

Light build

React InstantSearch

Initialization

**Adding Widgets** 

Start

**Events** 

#### Widgets

#### Basics

- searchBox
- hits
- Infinite hits
- hitsPerPageSelector

#### Navigation

- pagination
- menu
- hierarchicalMenu

#### Filters

- refinement list
- numericRefinementList
- toggle
- rangeSlider
- priceRanges
- numericSelector
- starRating
- clearAll
- currentRefinedValues

#### Sort

sortBySelector

Metadata

#### Initialization

To initialize the instantsearch.js library, you need an Algolia account with a configured and non-empty index.

You can find your Algolia credentials on the credentials page of your dashboard.

Use the APPLICATION\_ID appId , the search only API\_KEY apiKey and an index name indexName to configure the required parameters of the instantsearch function.

If you don't have any indices yet, learn how to push your data with the Algolia getting started guide.

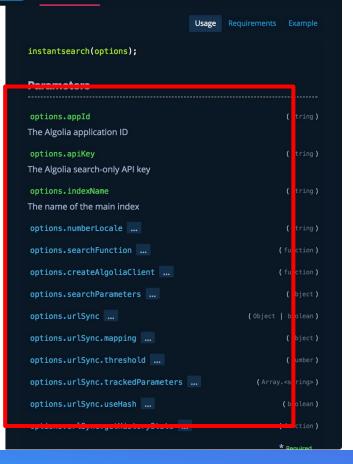
#### Url synchronization

You can synchronise the current search with the browser url. It provides two benefits:

- Working back/next browser buttons
- Copy and share the current search url

To configure this feature, pass urlSync: true option to instantsearch().

The urlSync option has more parameters, see the instantsearch function documentation.





# Let's fast forward to now



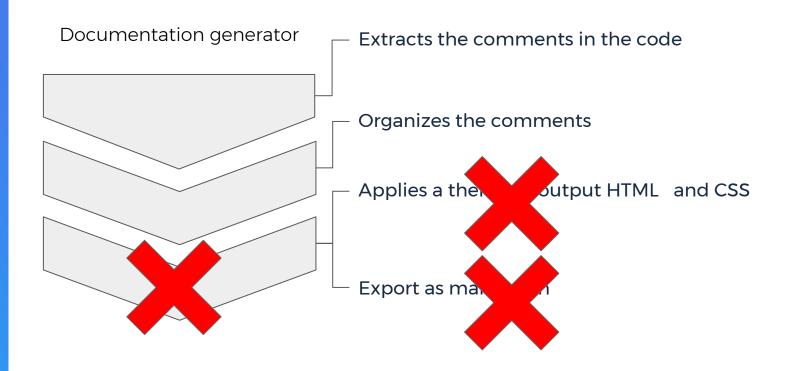
# Using modern tools for docs

### > Metalsmith

- Not focussed on blogs
- Written in JS
- Easy to build plugins
- > **PUG + Sass** (+ webpack + handlebars)
- > And a custom plugin for **documentation.js**



# Bypassing the output





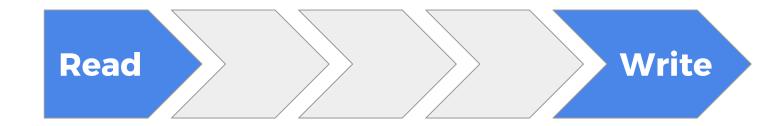
### Documentation.js

- > Fully compatible with jsDoc comments
- > Under active development
- > Built-in javascript API





### Metalsmith architecture





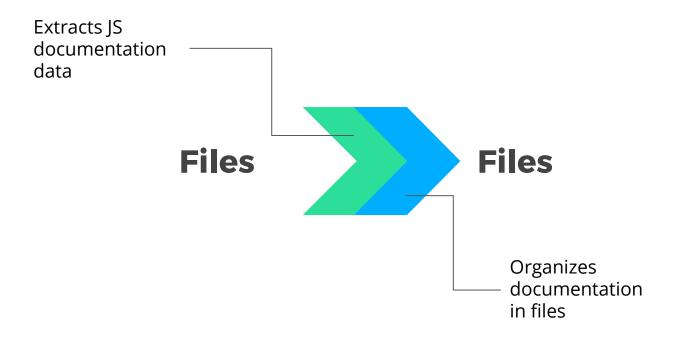


# Metalsmith plugin





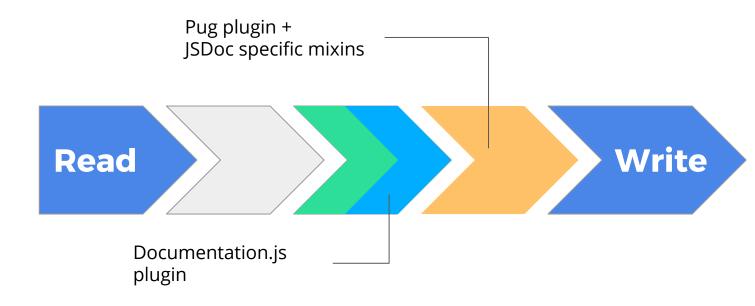
# Documentation.js plugin







### Our pipeline







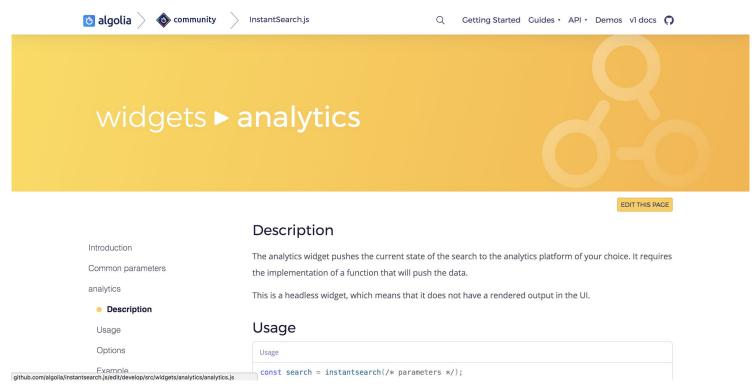
### Results

- > Editorial content with reference doc
- > Tools you know
- > Requires some time investment

# Get more from your doc!



# Easy contributions



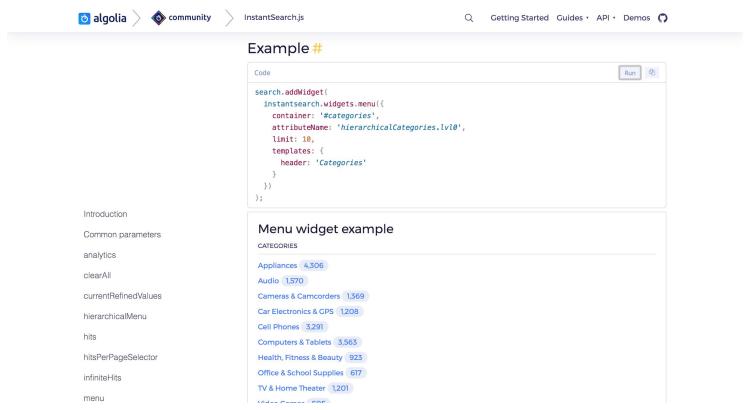


# Topic oriented documentation

- > The API can be separated in concepts
- > Organizing topics with the learning curve in mind
- > Driven by the business logic of the doc based on the jsDoc data

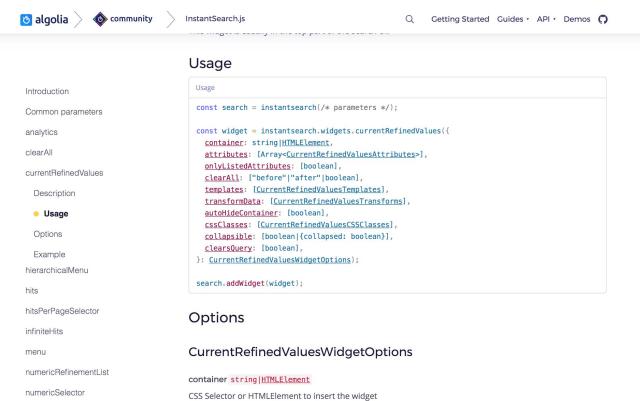


# Runnable example





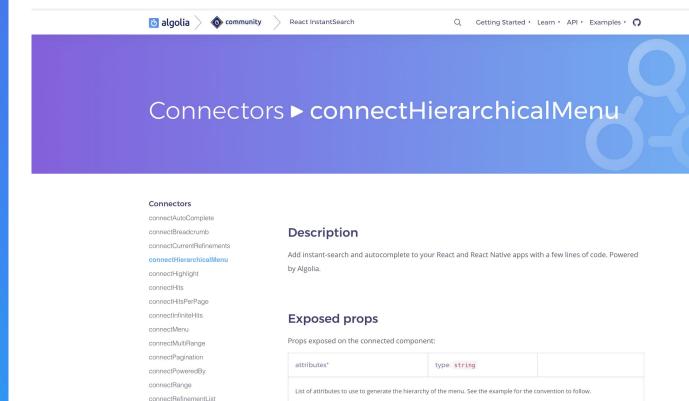
### Usage





connectScrollTo

### Extend the semantic



# Reflexions and future





### Current stack

- > Metalsmith is small and very easy to hack
- > Maybe other tools could fit too
- > Other languages could benefit from this approach





### Code semantics

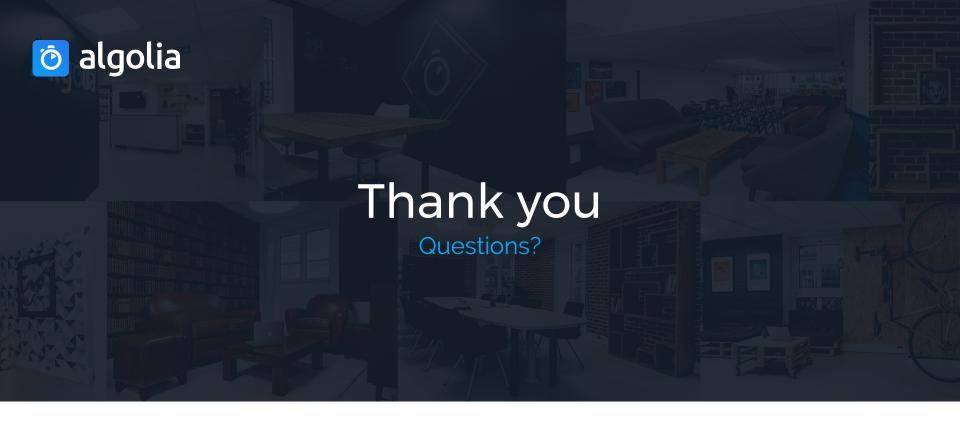
- > jsDoc is typing without verifications
- > documentation.js support flow as typing
- > Double bonus: Writing type once + checks





### Conclusion

- > Documentation is key for a successful library
- > You don't have to rely on old stacks
- > Documentation is data, you can harness it





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### Reference

- <u>InstantSearch.js documentation</u>
- react-instantsearch documentation

#### **Tools**

- <u>Documentation.js</u>
- Metalsmith
- <u>jsdoc-to-markdown</u>
- jsdoc

Some interesting blog post on the doc topic

- Making docs more inspiring
- In defense of jsDoc