

The logo features a stylized yellow 'S' shape on a black background, partially obscured by a large, curved magenta shape.

**CAMUNDA  
COMMUNITY  
SUMMIT 2023**

# bpmn.io Outside of Camunda

Exploring the wider eco-system and its users.

Nico Rehwaldt / 2023-05-11

**CAMUNDA  
COMMUNITY  
SUMMIT 2023**

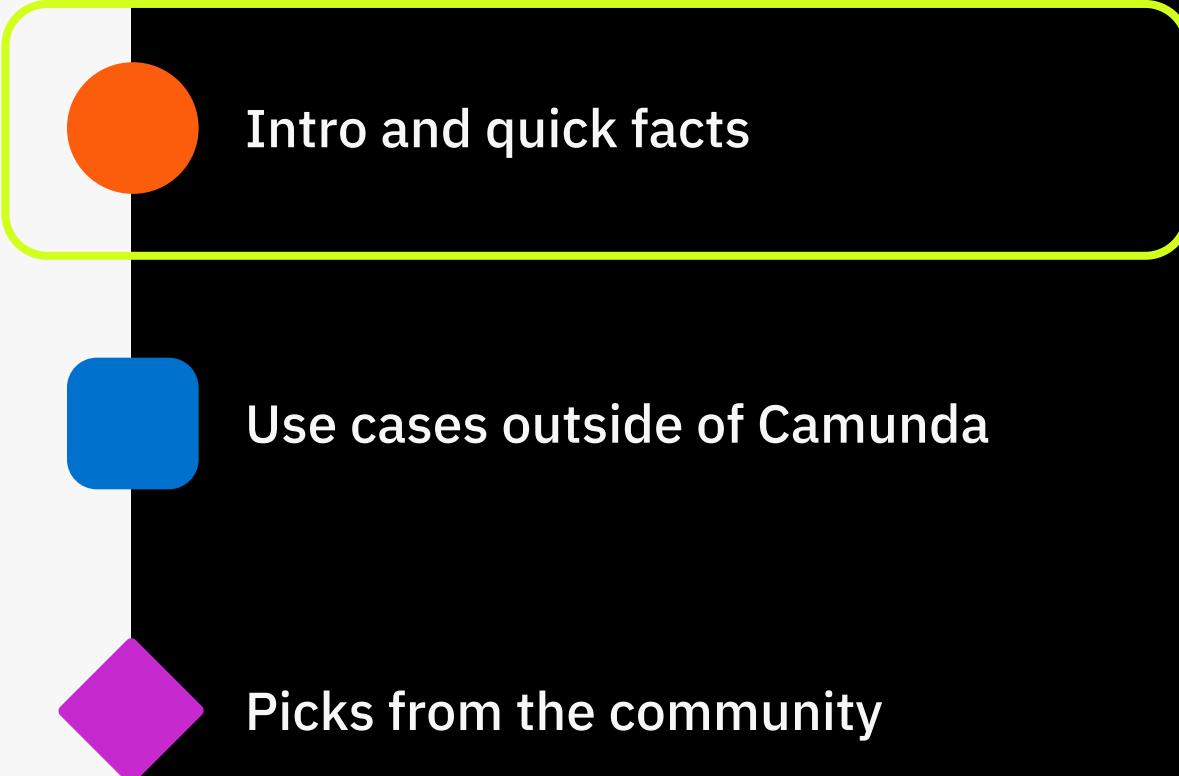
# **bpmn.io Outside of Camunda**

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Nico Rehwaldt / 2023-05-11

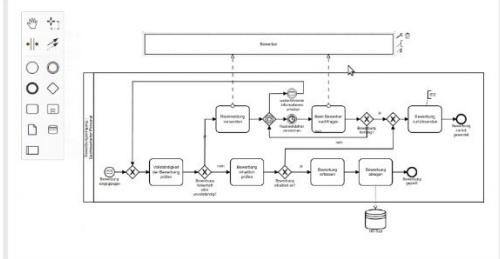


# Agenda



Web-based tooling for **BPMN**, **DMN** and **Forms**.

[Try Online](#)



The screenshot shows the BPMN.io website's main page. At the top, there are navigation links for "BPMN.js", "dMN.js", and "form.js". On the right side, there are links for "Blog", "Forum", and "GitHub". Below the title, there is a large green banner with the text "Web-based tooling for BPMN, DMN and Forms.". In the center of the page is a "Try Online" button. Below the banner, there is a screenshot of the BPMN viewer and editor interface, showing a complex BPMN diagram with various nodes, connections, and a toolbar on the left. To the right of the screenshot, there is a section titled "BPMN Viewer and Editor" with a description and two buttons: "Learn more" and "Try Online". At the bottom right, there is a purple button with the URL "https://bpmn.io/".

**BPMN Viewer and Editor**

Use **bpmn-js** to display BPMN 2.0 diagrams on your website.

Embed it as a BPMN 2.0 web modeler into your applications and customize it to suit your needs.

[Learn more](#) [Try Online](#)

<https://bpmn.io/>

Screenshot of the bpmn.io GitHub repository page.

**Overview**   **Repositories** 150   **Packages**   **People** 6

**README.md**

**Hi there 🌎**

We maintain an eco-system around rendering toolkits and editors for [BPMN](#), [DMN](#), and [forms](#).

Visit our [project website](#) to learn more about us.

**Resources**

- [Community forum](#)
- [What we work on](#)

**Pinned**

- bpmn-js** Public
- A BPMN 2.0 rendering toolkit and web modeler.
- 7.1k stars, 1.2k forks

- dmn-js** Public
- View and edit DMN diagrams in the browser.
- 243 stars, 117 forks

- form-js** Public
- View and visually edit JSON-based forms.
- 222 stars, 57 forks

- bpmn-js-examples** Public
- Some examples how to use bpmn-js
- 1.6k stars, 1.2k forks

- bpmn-moddle** Public
- Diagram editor for BPMN 2.0
- 1.2k stars, 57 forks

- diagram-js** Public
- Diagram editor for various formats
- 1.2k stars, 57 forks

**People**

**Top languages**

- JavaScript
- HTML
- TypeScript
- Shell
- Ruby

**Most used topics**

- bpmn-js
- bpmn
- javascript
- hacktoberfest
- diagram-js

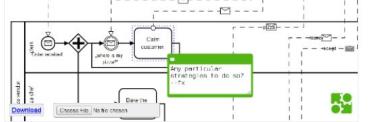
<https://github.com/bpmn-io>

The screenshot shows the BPMN.io website with a green header bar. The header includes the BPMN.io logo, navigation links for 'bpmn-js' (which is underlined), 'dmn-js', and 'form-js', and links for 'Blog', 'Forum', and 'GitHub'. Below the header, the page title 'bpmn-js' is displayed in large white font, followed by the subtitle 'BPMN 2.0 viewer and editor.' In the center, there are two buttons: 'Try Online' and 'Download'. Below these buttons, a note states 'Currently v12.0.0. View on GitHub.'

## BPMN everywhere, for everyone

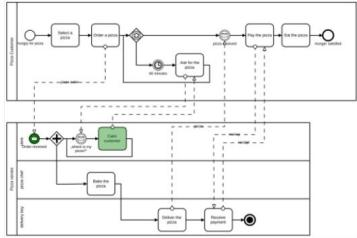
Create, embed and extend BPMN diagrams in your Browser. Use it standalone or integrate it into your application.

<https://bpmn.io/toolkit/bpmn-js/>



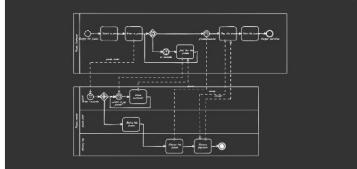
Leave comments on BPMN diagrams.

## Colors



Add colors to your BPMN diagrams.

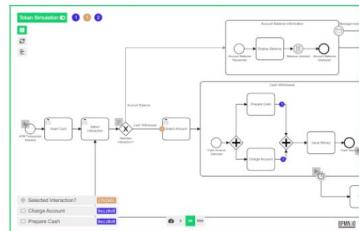
## Theming



Add theming to bpmn-js.

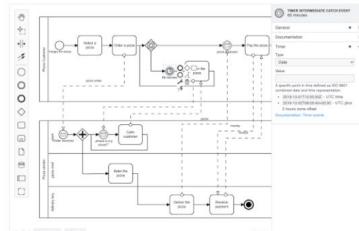
Compare two BPMN diagrams and visualize the differences.

## Token Simulation



Simulate BPMN 2.0 execution in your browser.

## Properties Panel

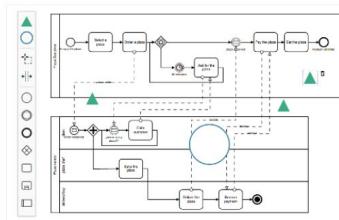


A bpmn-js + properties panel example.



A custom BPMN modeler with nyan cats, custom modeling rules and more.

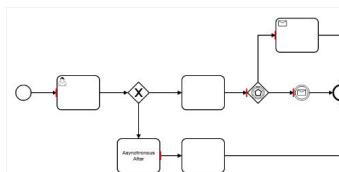
## Custom Elements



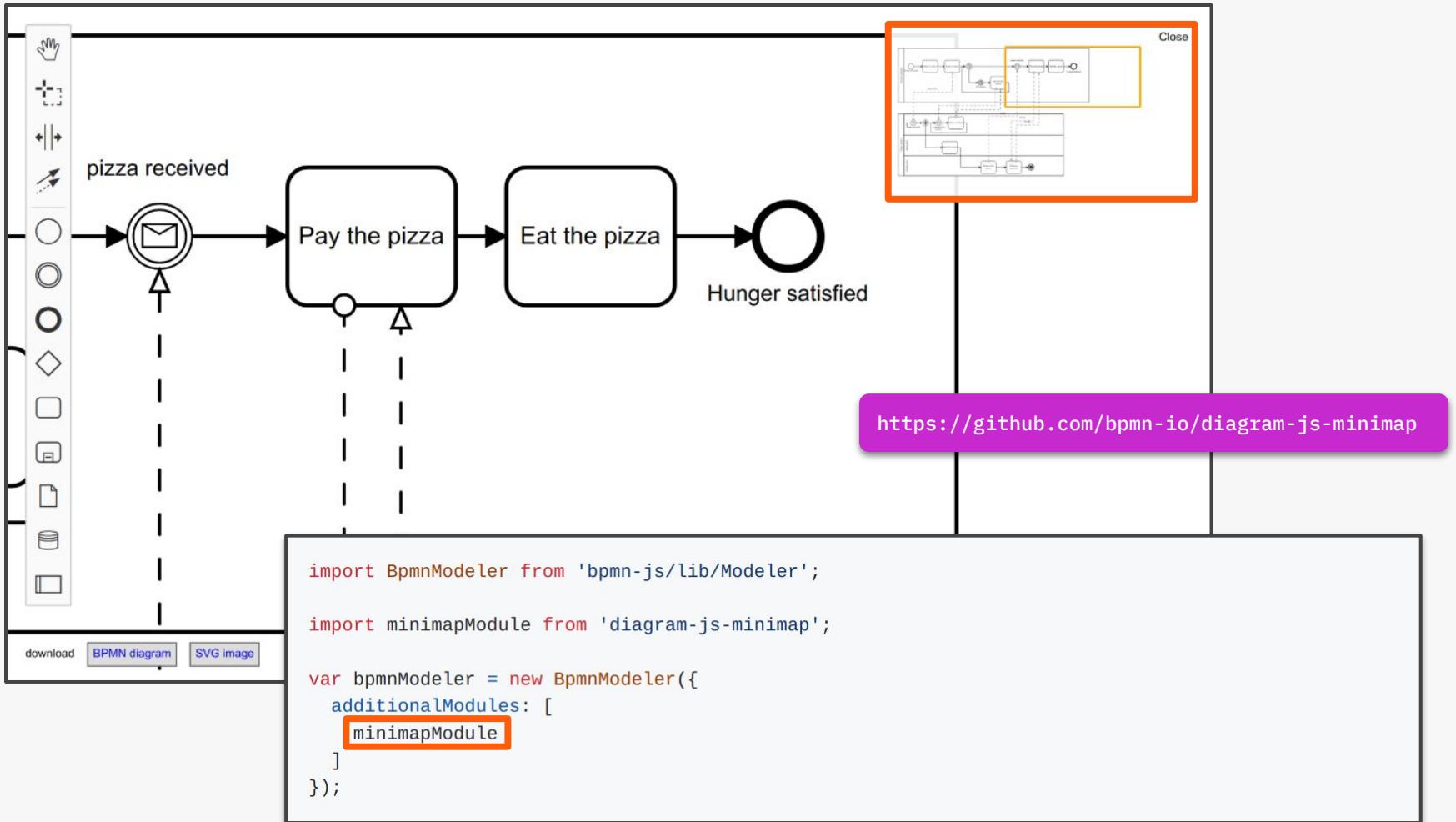
BPMN not enough? Add custom elements to your diagrams.

<https://bpmn.io/toolkit/bpmn-js/examples/>

## Transaction Boundaries



Visualize transaction boundaries in the diagram.



# Project statistics



9

Years old



150

Repositories on  
GitHub



7

Camundis  
contributing to core  
development

# Usage statistics



**2400**

Dependencies to  
bpmn-js, known to  
GitHub



**380**

Libraries released on  
npm depend on  
bpmn-js



**30k + 33k**

Monthly visitors to  
bpmn.io and  
bpmn.io demo



# Encourages external use

- Editors, not drawing tools
- Easy to use and to embed
- Extensible and modular
- Supported by examples and additional tooling

# Agenda



Intro and quick facts

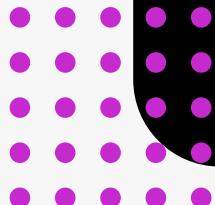


Use cases outside of Camunda



Picks from the community

We are a team of process engineers,  
who design operational processes with  
BPMN [...]. Our processes don't have  
anything to do with programming (!)  
and we are no IT people, so please  
bear with us.



– J-B, via bpmn.io forum

**Embed anywhere**

- ✓ Active modeling support through tools like automated layout helpers, the BPMN-validator or visual token simulation as well as individual preferences for the plug-in



viadee BPMN Modeler Enterprise for Confluence - Intro

Demo BPMN Modeler

Overview process model (x14)

Link a BPMN Diagram

0:36 / 3:

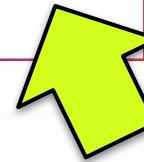
<https://www.viadee.de/en/solutions/business-process-management/bpmn-modeler>

MORE THAN 1.000 INSTALLED INSTANCES AND TOP RATINGS

### CUSTOMER REVIEW

"Finally a plug-in that fully supports BPMN 2.0 and is very comfortable to use!" - Heiko Fricke, Atlassian

Marketplace



### TRY OUT THE ENTERPRISE VERSION FREE OF CHARGE

Get to know the strengths of our BPMN Modeler in practical application. Learn how you can organise your work much more

FREE TEST VERSION

jmix-bookstore – perform-supplier-order.bpmn20.xml [jmix-bookstore.main]

jmix-bookstore > src > main > resources > processes > perform-supplier-order.bpmn20.xml

Jmix-bookstore Jmix Application

Git: ✓ ✓ ✓ ✓ ✓

BPMN Inspector

Notifications

Gradle

Project

jmix

jmix Requests

Commit

Pull Requests

jmix Bookstore

System

Procurement Specialist

Review Supplier Order Draft

Draft valid?

Mark Order as Invalid

Notify Requesters about invalid Request

Place Supplier Order

Send Order Form to Supplier

Approval Required decision

Approval required?

Approve Supplier Order

Supplier Order Approved?

Set Order Status to "Changes required"

Properties list

General

Id: DraftValidYesFlow

Name: Yes

Condition

Source: User task outcome

User task: ReviewSupplierOrderDraftHun

Outcome: Yes

Execution Listeners

Other

Documentation

jmix Structure

Bookmarks

Git

TODO

Problems

Terminal

Services

Dependencies

New Jmix version is available: Jmix 1.5 // Open project properties... // Ignore this version (4 minutes ago)

main

<https://www.jmix.io/>

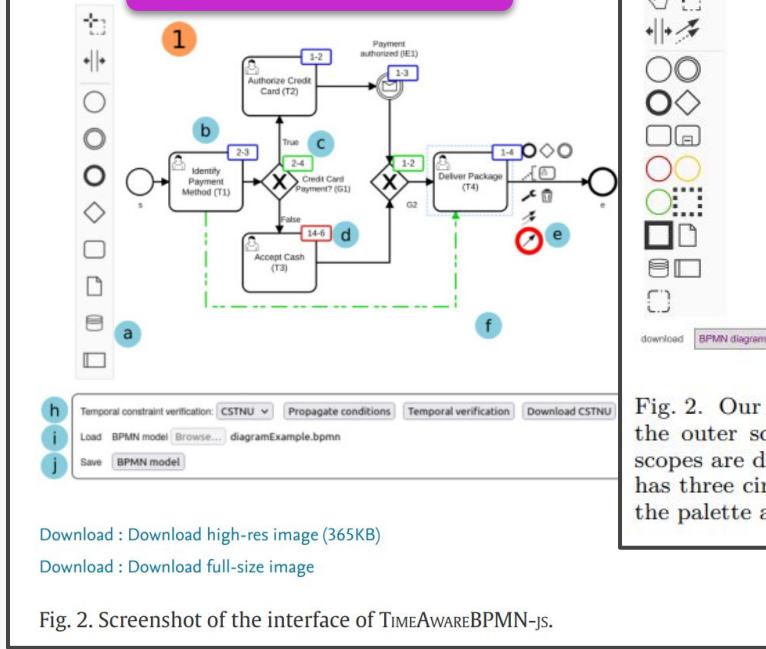
BPMN.io

```
graph TD
    Start(( )) --> Review[Review Supplier Order Draft]
    Review --> Draft{Draft valid?}
    Draft -- No --> Invalid[Mark Order as Invalid]
    Invalid --> Notify[Notify Requesters about invalid Request]
    Notify --> Place[Place Supplier Order]
    Place --> Send[Send Order Form to Supplier]
    Draft -- Yes --> Approval{Approval required?}
    Approval -- No --> Place
    Approval -- Yes --> Approve[Approve Supplier Order]
    Approve --> Approved{Supplier Order Approved?}
    Approved -- Yes --> End((( )))
    Approved -- No --> Review
    End --> Set[Set Order Status to "Changes required"]
```

**Extend, experiment and research**

## Situation awareness for BPMN

time-aware-bpmn-js



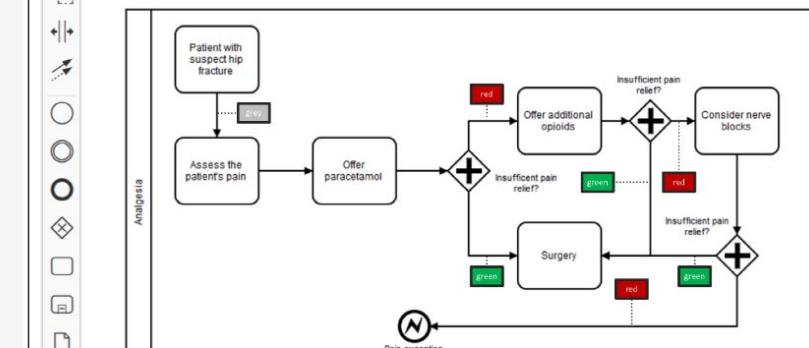
Hide List   Errors: 2   Warnings: 1   Information: 0

Figure 1: Screenshot of fcm-js user interface

Fragment-based case management

Figure 17. The support tool: BPMN editing.

## Edit BPMN



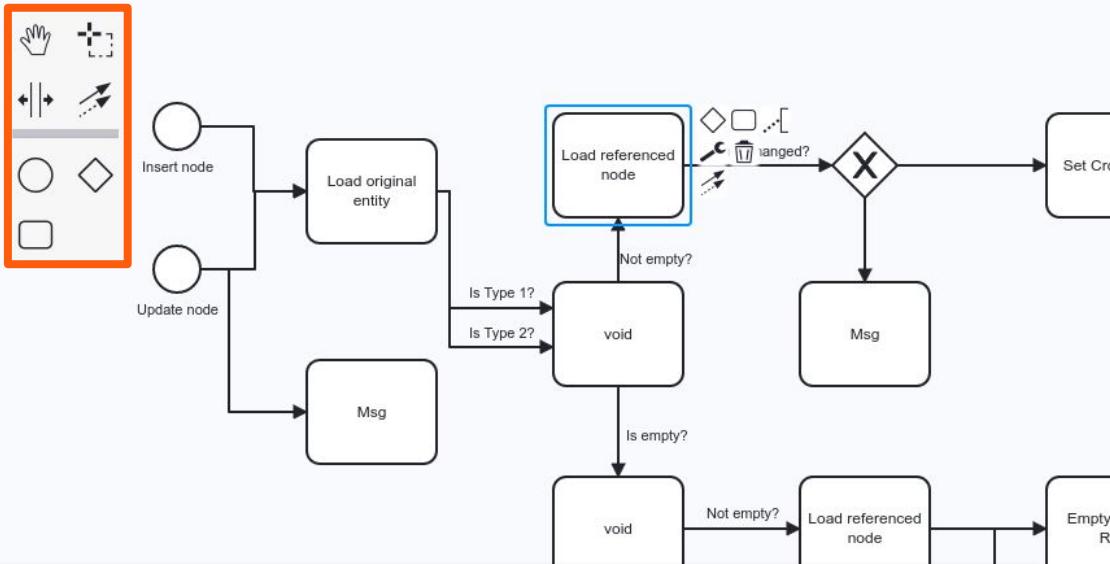
Requirements engineering

**Workflow, but not Camunda**

Save

Close

## Cross references ECA Model ☆



Browse available tokens.

ENTITY: LOAD VIA REFERENCE  Load referenced node

General

Template  Applied

Custom properties

Name of token refentity

Field name entity reference field\_other\_node

Load entity from Current scope

Entity type - None chosen -

Entity ID

Revision ID

Language Interface language

Load latest revision no

Load unchanged values

Drupal ECA ("event-condition-action") UI

<https://bpmn.io/blog/posts/2022-drupal-eca-integration.html>

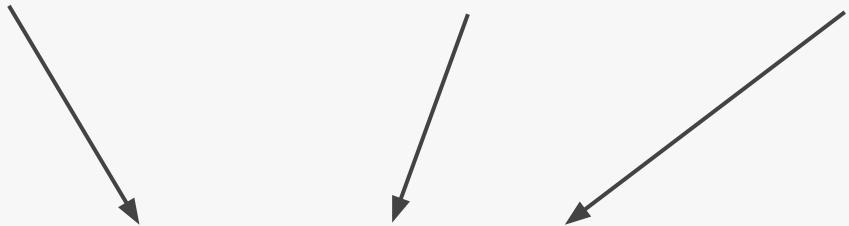
**Reuse the core**

bpmn-js

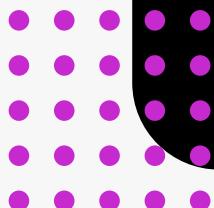
dmn-js

form-js

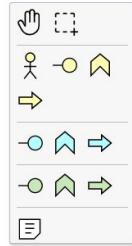
diagram-js



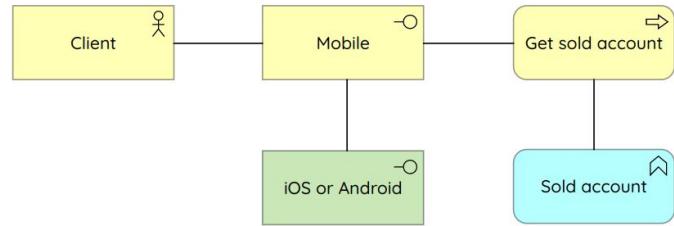
I [...] got wondering whether anybody has ever suggested creating an Archimate modeler using the snappy js modeling library you use.



– fideocam, via bpmn.io forum

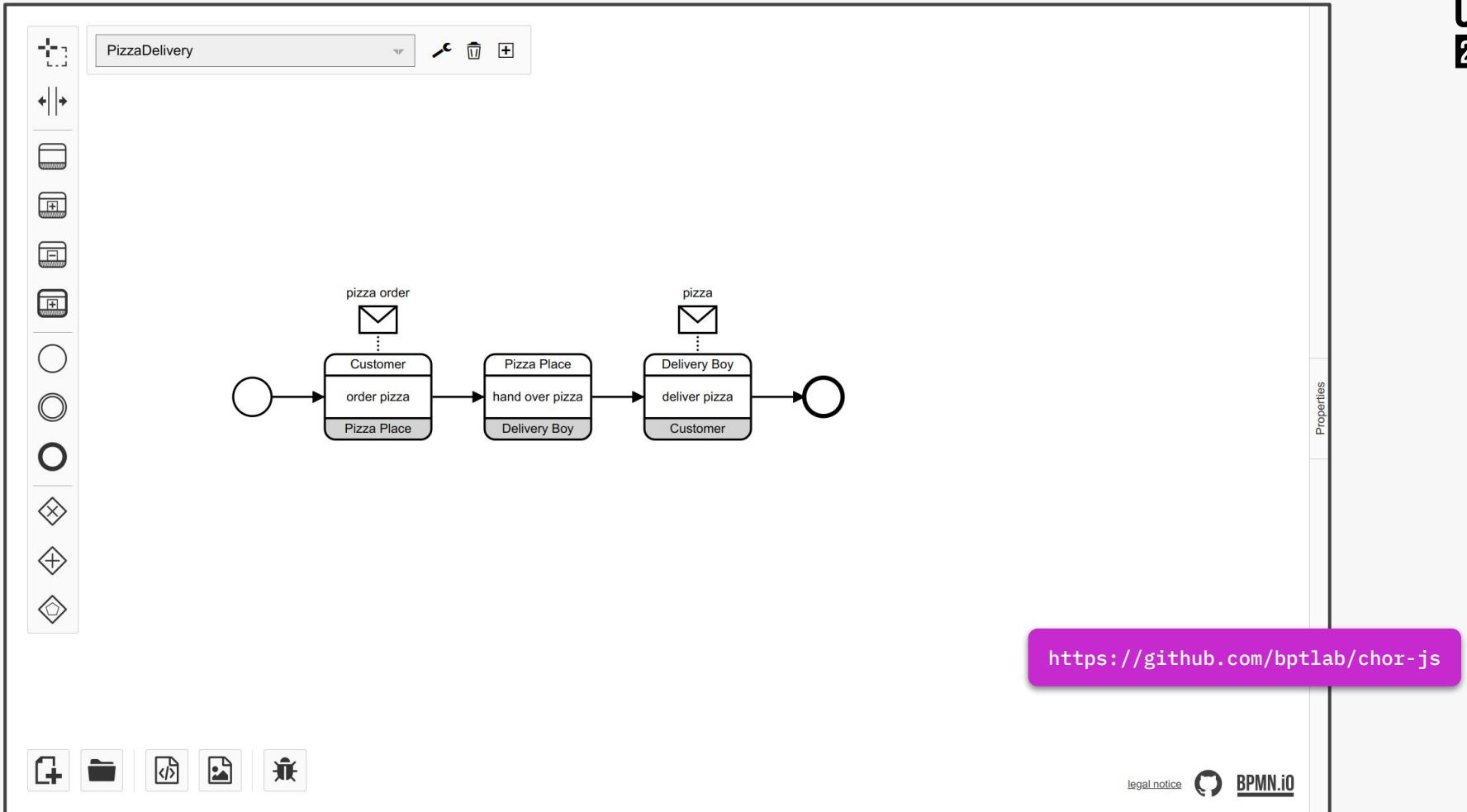


Get sold account  
process



|               |  |  |
|---------------|--|--|
| Sample model  |  |  |
| View          |  |  |
| Name          |  |  |
| Default View  |  |  |
| Documentation |  |  |

<https://github.com/archimodel/archimate-js>



# Use cases: Summary

- **Embed anywhere** - Integrate in wikis, (developer) tools, web applications
- **Extend, experiment and research** - Extend BPMN, tailor it towards a particular domain
- **Workflow, but not Camunda** - Flow modeling for (any) execution platform
- **Re-use the core** - Inherit the modeling UX and build support for other visual languages

# Agenda



Intro and quick facts

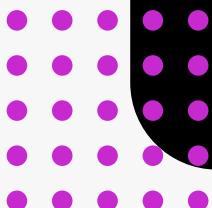


Use cases outside of Camunda



Picks from the community

Many front-end developers in China  
are currently using this library, and  
it's my pleasure to provide some help  
for this.



– MiyueFE, bpmn-js contributor

# The most detailed bpmn.js textbook directory in the whole network



LinDaiDai\_Lin B... LV.6

December 10, 2019 08:04 · Read 58911



<https://juejin.cn/post/6844904017567416328>

simple palette

open a file download file preview simulation

Task >

gateway >

gateway

start >

Finish >

Finish

tool >

tool

Close minimap

```
graph LR; Start(( )) -- Hunger noticed --> Task[choose dish]; Task --> EndX{X}
```

i conventional

ID Process\_1683099344346

name 业务流程\_1683099344346

版本标签

可执行 否  是

消息与信号 >

execute listener >

extended attributes >

other >

*info*

*gear*

<https://miyuesc.github.io/process-designer/>

BPMN.io



Community summit agenda



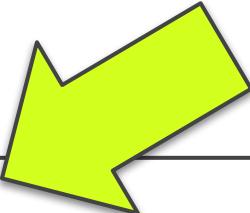
Abc



## Extensions

Since [diagram-js](#) and also this project is extendable by design, there exist a couple of great community maintained extensions

- [drag-drop-images](#) - Drag and drop image files on the board
- [selection-organizer](#) - Organize and distribute groups of elements
- [properties-panel](#) - Properties panel for post-it elements



<https://github.com/pinussilvestrus/postit-js>

open

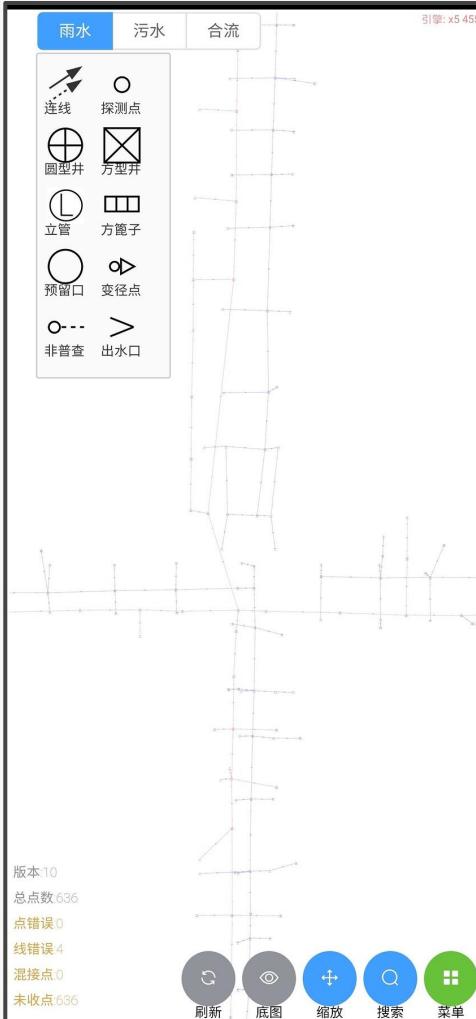
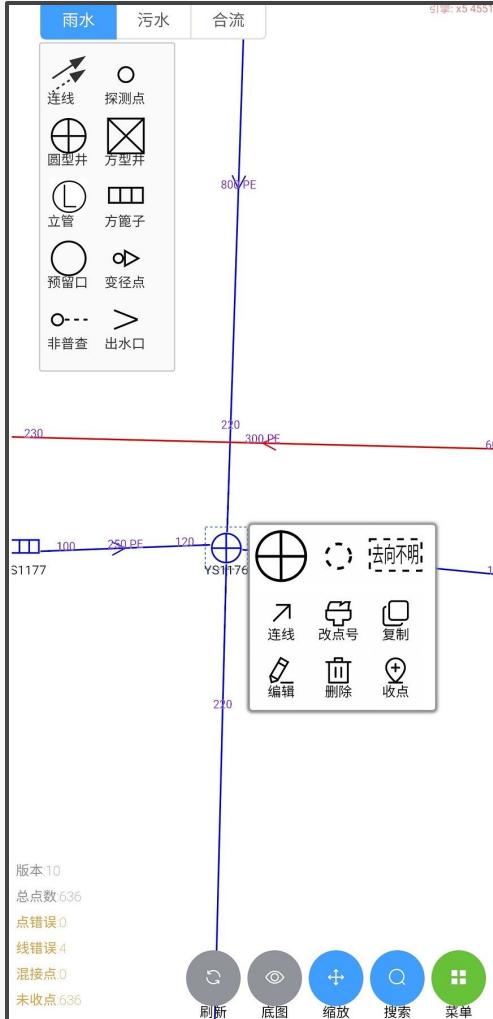
Postit XML file

New Board

download

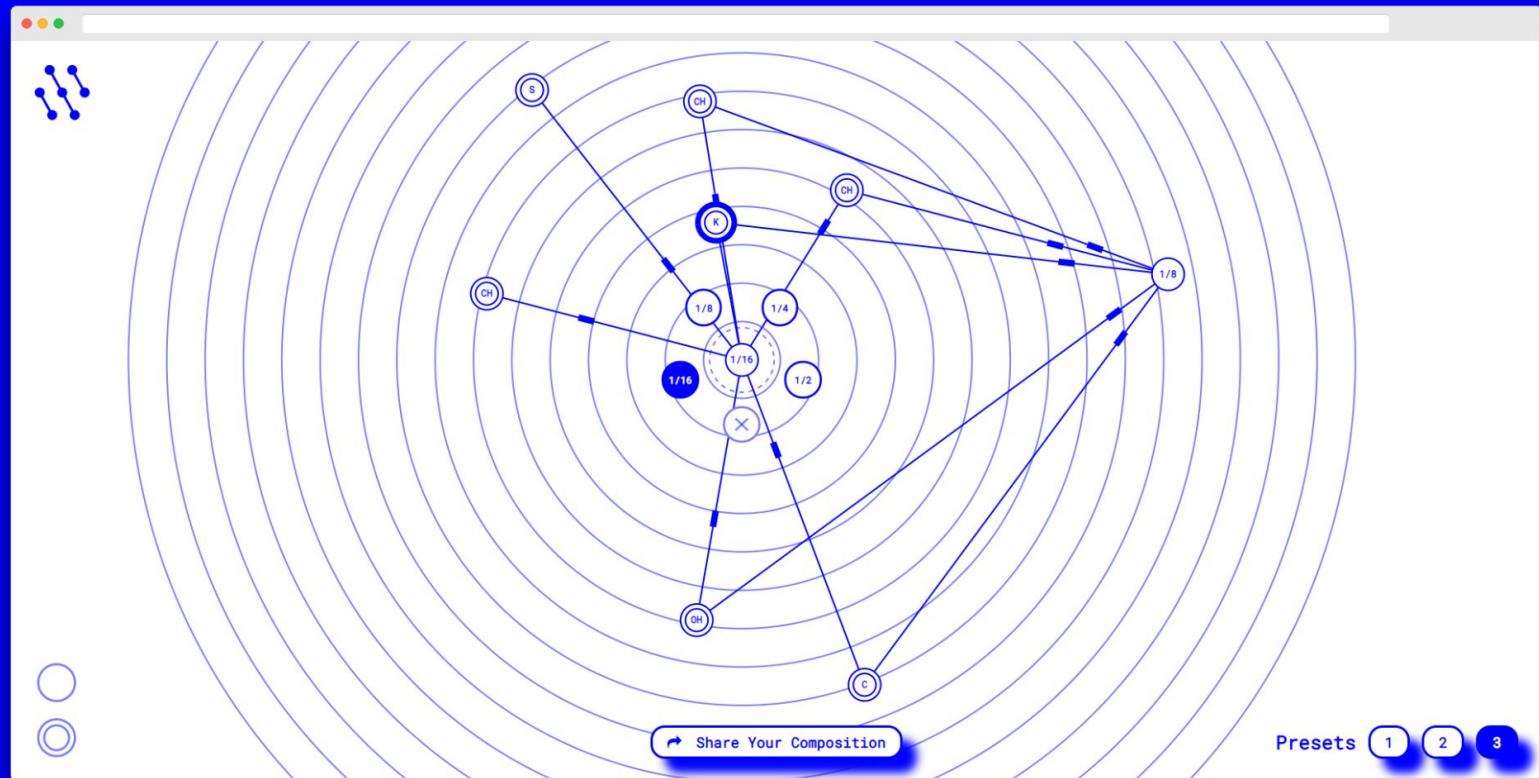
Postit XML file

SVG image



Plotting more than 1500 elements you may run into performance issues.

Source: <https://forum.bpmn.io>



**(BPMN) Everywhere, for everyone.**

# Thank You

-  [nico.rehwaldt@camunda.com](mailto:nico.rehwaldt@camunda.com)
-  <https://www.linkedin.com/in/nrehwaldt/>
-  <https://github.com/nikku>

# Got something to contribute?

- Talk to us on the [project forums](#) or propose it to our [awesome list](#).

