

**Unleash the potential of
Deck, Gantt, and Portal
with Sirius Web!**

Stéphane Bégaudeau - Obeo

Sirius Web

GitHub - eclipse-sirius/sirius-web

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master 113 Branches 232 Tags

gdnaniel and sbegaudeau [3429] Add diagram filter view in diagram pa... 62d42d0 · 13 hours ago 2,283 Commits

Reusable frontend and backend components for Sirius Web

- .dependabot
- .github
- .vscode
- doc
- integration-tests
- packages
- scripts
- vscode-extension
- .gitattributes
- .gitignore
- .npmrc
- CHANGELOG.adoc
- CONTRIBUTING
- DEPENDENCIES
- Dockerrun.aws.json.template
- LICENSE
- NOTICE
- README.adoc
- package-lock.json
- package.json
- settings.xml

Sirius | Sirius WebHome

eclipse.dev/sirius/sirius-web.html

Sirius Desktop Sirius Web

FEATURES TRY IT SUPPORT DOWNLOAD

EASILY CREATE AND DEPLOY GRAPHICAL STUDIOS TO THE WEB

An open-source **low-code** platform to define custom **web applications** supporting your specific **visual languages**



- Graphically represent and edit data**
Modeling studios defined with Sirius Web support the edition of your DSL with both your specific visual notation and your native domain concepts
- With a modern cloud-based application**
Your studios offer a modern UX and are deployed on a web server running with state-of-the-art technologies: Spring, React, PostgreSQL, GraphQL
- Without installation on your desktop**
Once deployed on a server, just start your custom studio directly from a web browser, without any specific installation on user's desktop

Sirius Web - Overview

Sirius Web Product Tour: Low-Code Solution

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Sirius Web

- Open source project of the Eclipse Foundation
- Web based modeling workbench
 - Define your concepts
 - Specify how to view and manipulate them
 - Start editing 🔥 🔥 🔥

Sirius Web

localhost:5173/projects/2ea390f7-05e1-4e4c-be8f-e3559af11774/edit/0a7d4845-6628-4d01-8b38-26fdb0a627fb

Studio

RUN COMMANDS... + K ?

Explorer

- DomainNewModel
 - mclaren
 - Domain
 - Root
 - Entity1
 - Entity2
 - name
- ViewNewModel
 - View
 - mclaren Diagram Description
 - DiagramPalette
 - Entity1 Node
 - NodePalette
 - RectangularNodeStyleDescription
 - aqi:self.name
 - Entity2 Node
 - NodePalette
 - RectangularNodeStyleDescription
 - aqi:self.name
 - LinkedTo Edge
 - ColorPalette

Domain

```

classDiagram
    class Root
    class Entity1 {
        name
        attribute2
        attribute3
    }
    class Entity2 {
        name
    }
    Root <|-- Entity1
    Root <|-- Entity2
    Entity1 --> Entity2 : linkedTo [0..*]
    Entity1 --> Root : entity1s [0..*]
  
```

Details

Root

Core Properties

Name

Root

Super Types

Values

Abstract

React Flow

Sirius Web
localhost:5173/projects/2ea390f7-05e1-4e4c-be8f-e3559af11774/edit/0a7d4845-6628-4d01-8b38-26fdb0a627fb

Studio

Explorer

- DomainNewModel
 - mclaren
 - Domain
 - Root
 - Entity1
 - Entity2
 - name
 - ViewNewModel
 - View
 - mclaren Diagram Description
 - DiagramPalette
 - New Entity1
 - mclaren::Entity1
 - aqi:newInstance
 - name
 - New Entity2
 - Entity1 Node
 - NodePalette
 - RectangularNodeStyleDescription
 - aqi:self.name
 - Entity2 Node
 - NodePalette
 - RectangularNodeStyleDescription
 - aqi:self.name
 - LinkedTo Edge
 - ColorPalette

Domain

```

classDiagram
    class Root
    class Entity1 {
        name
        attribute2
        attribute3
    }
    class Entity2 {
        name
    }
    Root "0..*" --> "0..*" Entity1 : entity1s
    Root "0..*" --> "0..*" Entity2 : entity2s
    Entity1 "0..*" --> "0..*" Entity2 : linkedTo
  
```

Details

New Entity1

Core Properties

Name
New Entity1

Precondition Expression
Precondition Expression

Icon URLs Expression
Icon URLs Expression

Elements To Select Expression
Elements To Select Expression

React Flow

localhost:5173/projects/9501bae3-b938-476d-bc93-4a3ba31e76d5/edit/602c7bae-01b5-484c-80cc-a37e396d383c

Demo

RUN COMMANDS... + K ?

Explorer

- Others...
- Root
 - mclaren diagram

mclaren diagram

Search Tool

- New Entity1
- New Entity2

New Entity1

Details

mclaren diagram

Core Properties

Label

mclaren diagram

Documentation

Documentation

| Description Name | mclaren Diagram Description |
|------------------|-----------------------------|
|------------------|-----------------------------|

React Flow

localhost:5173/projects/9501bae3-b938-476d-bc93-4a3ba31e76d5/edit/602c7bae-01b5-484c-80cc-a37e396d383c

Demo

RUN COMMANDS... + K ?

Explorer

- Others...
- Root
 - mclaren diagram
 - NewEntity1
 - NewEntity2

mclaren diagram

```
graph TD; NewEntity1 --> NewEntity2;
```

Details

No object selected

React Flow

localhost:5173/projects/5d534772-1c07-4be7-a455-0fa852fe2702/edit/9060ab39-032a-4a0b-847b-f5f6f587c058

Flow

Explorer

- Flow
 - NewSystem
 - Topography
 - CompositeProcessor1
 - Processor1
 - DataSource1
 - standard
 - CompositeProcessor2
 - Processor1
 - unused

Topography

DataSource1

CompositeProcessor1

Processor1

CompositeProcessor2

Processor1

Details

Processor1

Core Properties

Status

inactive active

Usage

unused low standard high over

Incoming Flows

standard unused Values

Capacity

10

Load

0

Consumption

0

Power Status

none low ok

Name

Processor1

Volume

2

Weight

10

React Flow

Sirius Web

localhost:5173/projects/38b602a5-eb2d-4e01-b6b0-17bf89e1b21b/edit/ad2285da-a8b9-45e2-be05-8df37699de8d

Pokemon

Explorer

- Pokemon
 - Pokemon Game
 - New Representation
 - Kanto
 - Kalos
 - Ash Ketchum
 - Pokedex
 - Pokeball
 - Water / Fire / Grass
 - Electric / Poison / Normal
 - Gary Oak
 - Pokedex
 - Pokeball
 - Awesome Team!
 - John
 - Pokedex
 - Team
 - Bulbasaur
 - Ivysaur
 - Venusaur
 - Charmander
 - Charmeleon
 - Charizard
 - Squirtle
 - Wartortle
 - Blastoise
 - Caterpie
 - Metapod
 - Butterfree
 - Weedle
 - Kakuna
 - Beedrill
 - Pidgey
 - Pidgeotto
 - Pidgeot
 - Rattata
 - Raticate
 - Spearow
 - Fearow
 - Ekans
 - Arbok
 - Pikachu
 - Raichu

New Representation

Details

Ash Ketchum

Core Properties

Name

Ash Ketchum

React Flow

<https://youtu.be/0QrK8h1Hxgo>

Sirius Web

- Sirius Web exclusive representations
 - Deck
 - Gantt
 - Portal

Sirius Web - Deck

Sirius Web - Deck

- Integrate a Trello like representation in your product
- Same philosophy as other representations
 - Synchronized with the semantic data
 - Updated in real time
 - Configured by a description

Sirius Web Sirius Web

localhost:5173/projects/05eeb541-1e65-4565-87aa-fb1fc640e49f/edit/af1c30f2-a6d8-48d6-99a4-a35affc236d7

Task

RUN COMMANDS... + K ?

Explorer

- Task
 - Company
 - Development Team
 - Paul
 - Peter
 - Project Dev
 - Daily Project Dev
 - Demo Deck Representation**
 - New Daily Representation
 - New Gantt
 - Idea
 - Specification
 - Development
 - Release
 - New Task
 - daily::Monday
 - daily::Tuesday
 - daily::Wednesday
 - daily::Thursday
 - daily::Friday
 - daily::Saturday
 - daily::Sunday
 - OKR Project Dev
 - Kanban Project Dev

Demo Deck Representation

Monday Tuesday Wednesday Thursday

Idea Specification New Task

Development Code Development

Click to add card

Core Properties

Label

Demo Deck Representation

Documentation

Documentation

Description Name Demo Deck Description

Sirius Web - Deck

- Deck description
 - View DSL in browser
 - View builder API
 - Programmatic API

localhost:5173/projects/b840932b-ae6d-48a4-91fe-24e2b5f6c058/edit

Demo Studio

RUN COMMANDS... + K ?

Explorer

- View
 - View
 - Demo Deck Description
 - TaskTag Lane Description**
 - Task Card Description
 - Create Card

Create a new Model
Select the model to create

- Domain
- Flow
- Import Deck & Gantt view
- Others...
- Robot Flow
- View

Create a new Representation
Select the representation to create

- Portal

Open an existing Representation
Select the representation to open

Details

TaskTag Lane Description

Core Properties

Semantic Candidates Expression

aql:self.ownedTags

Title Expression

aql:self.suffix

Label Expression

aql:self.suffix

Name

TaskTag Lane Description

Domain Type

task::TaskTag

Is Collapsible Expression

aql:true

Sirius Web - Deck

```
var laneDescription = new DeckBuilders().newLaneDescription()
    .name("TaskTag Lane Description")
    .domainType("task::TaskTag")
    .semanticCandidatesExpression("aql:self.ownedTags")
    .labelExpression("aql:self.suffix")
    .titleExpression("aql:self.suffix")
    .collapsibleExpression("aql:true")
    .build();
```

```
var deckDescription = new DeckBuilders().newDeckDescription()
    .name("Demo Deck Description")
    .domainType("task::Project")
    .titleExpression("New deck demo")
    .laneDescriptions(laneDescription)
    .build();
```

Sirius Web - Deck

```
var laneDescription = new DeckBuilders().newLaneDescription()
    .name("TaskTag Lane Description")
    .domainType("task::TaskTag")
    .semanticCandidatesExpression("aql:self.ownedTags")
    .labelExpression("aql:self.suffix")
    .titleExpression("aql:self.suffix")
    .collapsibleExpression("aql:true")
    .build();
```

| Details |
|---------------------------------------|
| TaskTag Lane Description |
| Core Properties |
| Semantic Candidates Expression |
| aql:self.ownedTags |
| Title Expression |
| aql:self.suffix |
| Label Expression |
| aql:self.suffix |
| Name |
| TaskTag Lane Description |
| Domain Type |
| task::TaskTag |
| Is Collapsible Expression |
| aql:true |

Demo

Sirius Web - Gantt

Sirius Web - Gantt

- Provide Gantt diagrams based on Sirius Web
- Manipulate tasks
 - Create and delete tasks
 - Edit task dependencies
 - Edit their progress

localhost:5173/projects/05eeb541-1e65-4565-87aa-fb1fc640e49f/edit/e745b88d-2e77-46d5-9cc8-dabca1e88c85

Task

RUN COMMANDS... ⌘ + K ?

Explorer

- Task
 - Company
 - Development Team
 - Paul
 - Peter
 - Project Dev
 - Daily Project Dev
 - Demo Deck Representation
 - Demo Gantt Representation**
 - Idea
 - Specification
 - Development
 - Release
 - New Task
 - daily::Monday
 - daily::Tuesday
 - daily::Wednesday
 - daily::Thursday
 - daily::Friday
 - daily::Saturday
 - daily::Sunday
 - OKR Project Dev
 - Kanban Project Dev

Demo Gantt Representation

Day

| Name | Start Date | End Date | Progr | Sat, 9 | Sun, 10 | Mon, 11 | Tue, 12 | Wed, 13 | Thu, 14 | Fri, 15 |
|-----------------|-------------------|-------------------|-------|--------|---------|---------------|---------|-------------|---------|---------|
| 1 Idea | dim. 10 déc. 2023 | lun. 11 déc. 2023 | 50% | | Idea | | | | | |
| 2 Specification | lun. 11 déc. 2023 | mar. 12 déc. 2023 | 50% | | | Specification | | | | |
| 3 Development | mer. 13 déc. 2023 | sam. 16 déc. 2023 | 0% | | | | | Development | | |
| 4 Release | lun. 18 déc. 2023 | lun. 18 déc. 2023 | | | | | | | | |
| 5 New Task | | | | | | | | | | |

Details

Demo Gantt Representation

Core Properties

Label
Demo Gantt Representation

Documentation
Documentation

Description Name Demo Gantt Description

Sirius Web

localhost:5173/projects/05eeb541-1e65-4565-87aa-fb1fc640e49f/edit/2809d025-949a-4a86-b37a-c2924245ab95

Task

RUN COMMANDS... + K ?

New Gantt

Half Day

| Name | December Sun, 10 12 00 | December Mon, 11 12 00 | December Tue, 12 12 00 | December Wed, 13 12 00 | December Thu, 14 12 00 | December Fri, 15 12 00 | December Sat, 16 12 00 | December Sun, 17 12 00 | December Mon, 18 12 00 | December Tue, 19 12 00 | December Wed, 20 12 00 | December Thu, 21 12 00 |
|----------------------|------------------------|------------------------|---------------------------|------------------------|------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| 1 Idea | [Grey bar] | | | | | | | | | | | |
| 2 Specification | | | [Blue bar: Specification] | | | | | | | | | |
| 3 Development | | | | | [Yellow bar: Development] | | | | | | | |
| 3.1 Code Development | | | | | [Grey bar: Code Development] | | | | | | | |
| 3.2 Review | | | | | | | | | [Blue bar] | [Grey bar: Review] | | |
| 4 Release | | | | | | | | | | | | |

Sirius Web
localhost:5173/projects/b840932b-ae6d-48a4-91fe-24e2b5f6c058/edit

Demo Studio

RUN COMMANDS... ⌘ + K ?

Explorer

- View
 - View
 - Demo Deck Description
 - Demo Gantt Description
 - Tasks**

Create a new Model
Select the model to create

- Domain
- Flow
- Import Deck & Gantt view
- Others...
- Robot Flow
- View

Create a new Representation
Select the representation to create

- Portal

Open an existing Representation
Select the representation to open

Details

Tasks

Core Properties

Name

Tasks

Domain Type

Domain Type

Semantic Candidates Expression

aql:self.ownedTasks

Name Expression

aql:self.name

Description Expression

aql:self.description

Start Time Expression

aql:self.startTime

End Time Expression

aql:self.endTime

Progress Expression

aql:self.progress

Compute Start End Dynamically Expression

aql:self.computeStartEndDynamically

Task Dependencies Expression

aql:self.dependencies

Reused Task Element Descriptions

Values

Demo

Sirius Web - Portal

Sirius Web - Portal

- View multiple representations at the same time
- Edit either the portal or the representations themselves
- Configurable only by the end users

localhost:5173/projects/05eeb541-1e65-4565-87aa-fb1fc640e49f/edit/b23e2909-cf80-4342-b4cd-644f093b20da

Task

RUN COMMANDS... + K ?

Explorer

- Task
 - Company
 - Development Team
 - Paul
 - Peter
 - Project Dev
 - Daily Project Dev
 - Demo Deck Representation
 - New Daily Representation
 - New Gantt
 - Portal**
 - Idea
 - Specification
 - Development
 - Release
 - New Task
 - daily::Monday
 - daily::Tuesday
 - daily::Wednesday
 - daily::Thursday
 - daily::Friday
 - daily::Saturday
 - daily::Sunday
 - OKR Project Dev
 - Kanban Project Dev

Portal

+
Add representations by dropping them from the explorer

Details

Portal

Core Properties

Label
Portal

Documentation
Documentation

Description Name Portal

localhost:5173/projects/05eeb541-1e65-4565-87aa-fb1fc640e49f/edit/b23e2909-cf80-4342-b4cd-644f093b20da

Task

RUN COMMANDS... + K ?

Explorer

- Task
 - Company
 - Development Team
 - Paul
 - Peter
 - Project Dev
 - Daily Project Dev
 - Demo Deck Representation
 - New Daily Representation
 - New Gantt
 - Portal
 - Idea
 - Specification
 - Development
 - Release
 - New Task
 - daily::Monday
 - daily::Tuesday
 - daily::Wednesday
 - daily::Thursday
 - daily::Friday
 - daily::Saturday
 - daily::Sunday
 - OKR Project Dev
 - Kanban Project Dev

Portal

New Daily Representation

Monday 3 / 5

Idea 01d09h00m

Specification 01d09h00m

New Task

Tuesday 1 / 5

Development 03d09h00m

Click to add card

Wednesday 1 / 5

Code Development 02d09h00m

Click to add card

New Gantt

| Name | Start Date | End Date | Progress | Sat, 9 | Sun, 10 | Mon, 11 | Tue, 12 | Wed, 13 | Thu, 14 | Fri, 15 |
|----------------------|-------------------|-------------------|----------|--------|---------|---------|---------|---------|---------|---------|
| 1 Idea | dim. 10 déc. 2023 | lun. 11 déc. 2023 | 50% | | | Idea | | | | |
| 2 Specification | lun. 11 déc. 2023 | mar. 12 déc. 2023 | 50% | | | | | | | |
| 3 Development | mer. 13 déc. 2023 | sam. 16 déc. 2023 | 0% | | | | | | | |
| 3.1 Code Development | mer. 13 déc. 2023 | ven. 15 déc. 2023 | 0% | | | | | | | |
| 3.2 Review | sam. 16 déc. 2023 | sam. 16 déc. 2023 | 0% | | | | | | | |
| 4 Release | lun. 18 déc. 2023 | lun. 18 déc. 2023 | 0% | | | | | | | |

Details

Properties

General

Name
Idea

Description
Description

Start Time
10/12/2023 09:30

End Time
11/12/2023 18:30

Progress
50

Dependencies
Values

Tags
daily::Monday Values

Assigned People
Values

Assigned Teams
Values

Idea: 10-12-2023 - 11-12-2023
Duration: 1 day(s)
Progress: 50 %
Description:

Demo

Conclusion

Representations

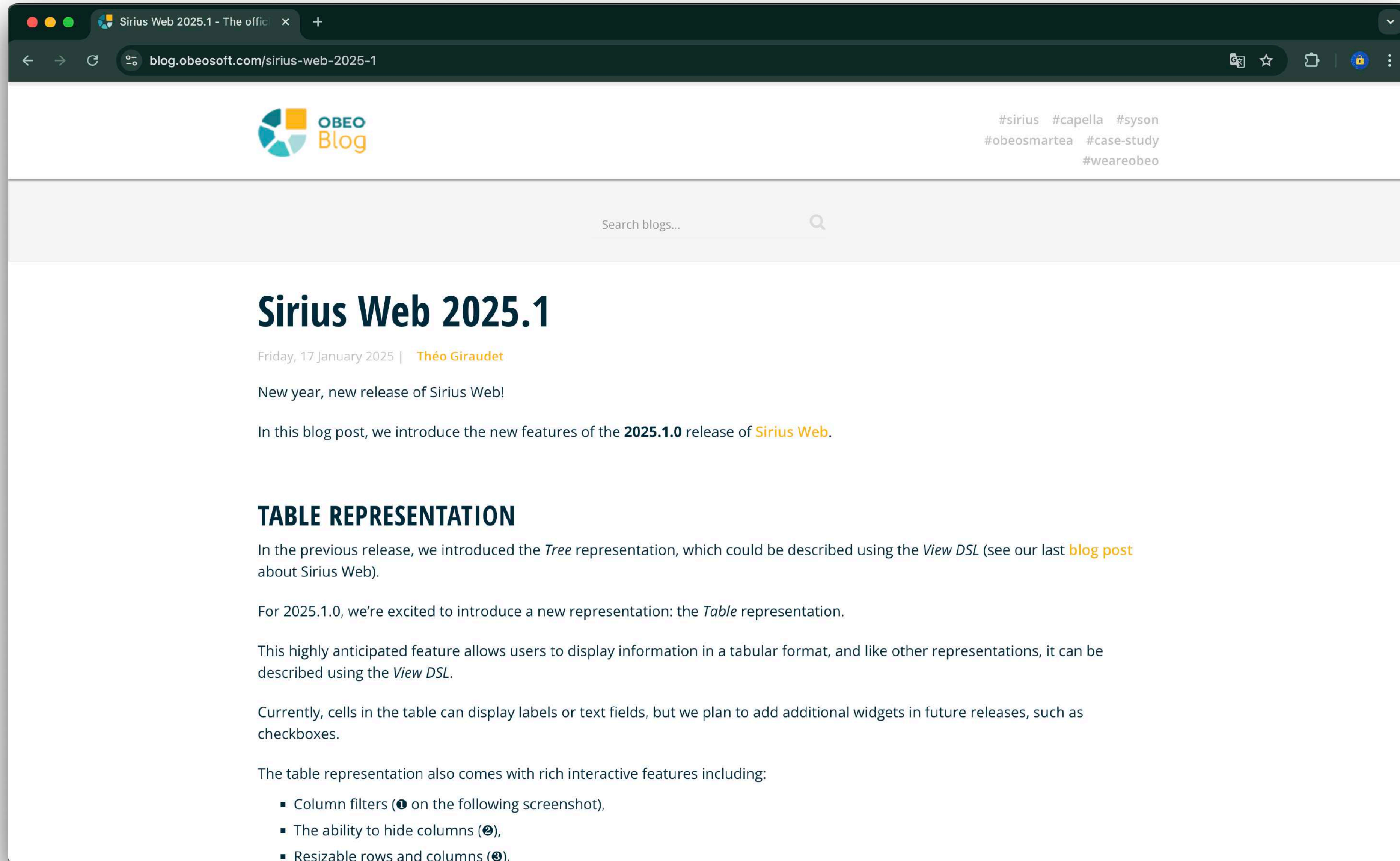
- Diagram
- Deck
- Gantt
- Portal
- Form
- Tree
- Table

The screenshot displays a project management interface with a dark theme. On the left, an 'Explorer' pane shows a hierarchical tree structure of tasks and sub-tasks. The main workspace is divided into two panels: 'New Kanban Representation' and 'New Gantt'.

New Kanban Representation: This panel shows a Kanban board with three columns: 'To Do' (2/4 cards), 'Doing' (1/4 cards), and 'Done' (3/4 cards). The 'To Do' column contains 'Review' and 'Release'. The 'Doing' column contains 'Code Development'. The 'Done' column contains 'Development', 'Idea', and 'Specification'. Each card has a time estimate (e.g., 0040h00m).

New Gantt: This panel shows a Gantt chart with a table of tasks and a corresponding timeline. The table has columns for Name, Start Date, End Date, and Progress. The timeline shows task bars with dependencies.

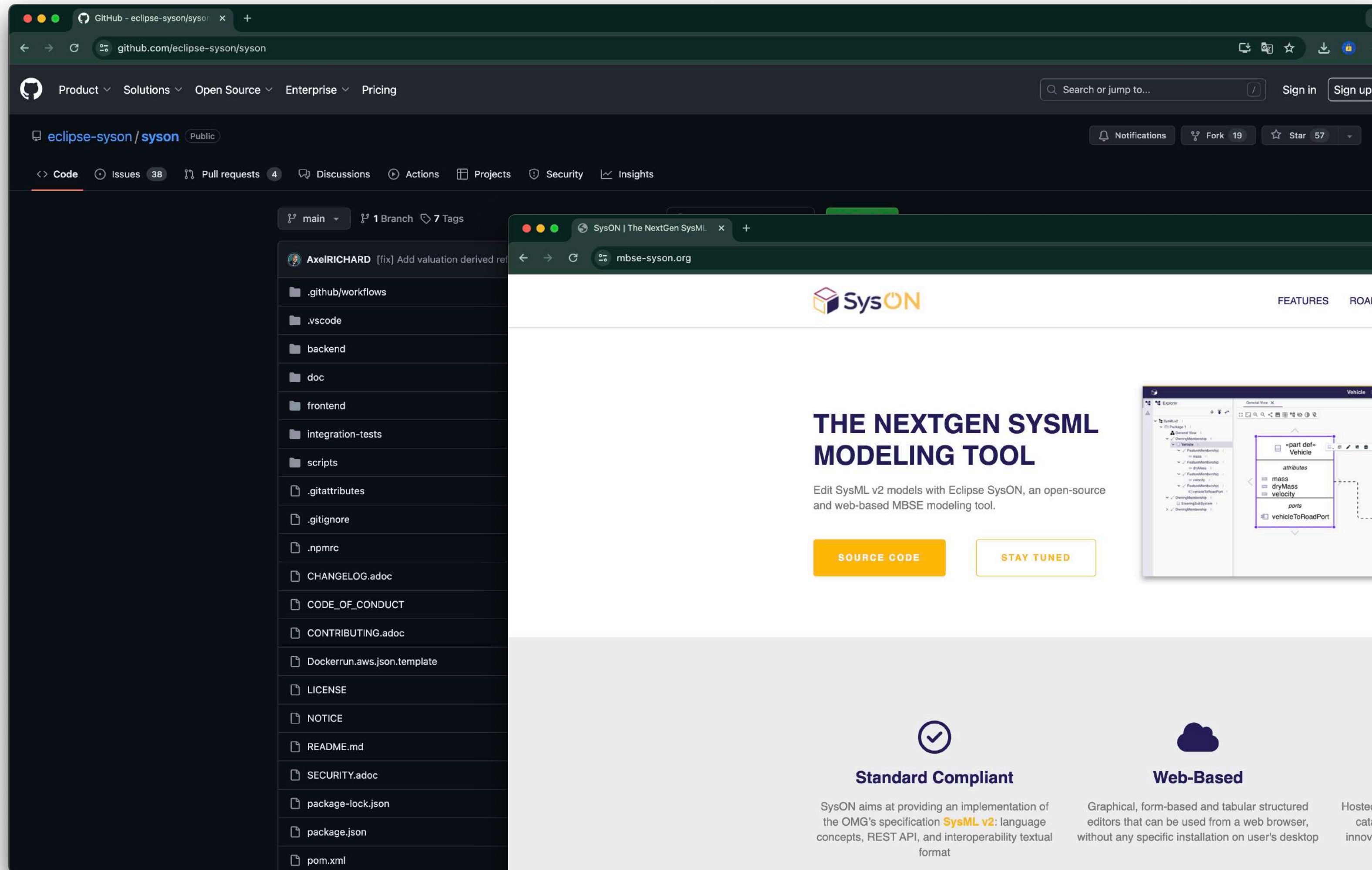
| Name | Start Date | End Date | Progr |
|----------------------|-------------------|-------------------|-------|
| 1 Idea | dim. 10 déc. 2023 | lun. 11 déc. 2023 | 50% |
| 2 Specification | lun. 11 déc. 2023 | mar. 12 déc. 2023 | 50% |
| 3 Development | mer. 13 déc. 2023 | sam. 16 déc. 2023 | 34% |
| 3.1 Code Development | mer. 13 déc. 2023 | ven. 15 déc. 2023 | 40% |
| 3.1.1 Front | mer. 13 déc. 2023 | jeu. 14 déc. 2023 | 30% |
| 3.1.2 Back | jeu. 14 déc. 2023 | sam. 16 déc. 2023 | 40% |
| 3.2 Review | sam. 16 déc. 2023 | sam. 16 déc. 2023 | 0% |
| 4 Release | lun. 18 déc. 2023 | lun. 18 déc. 2023 | |



How to use Sirius Web?

- Download it and run it
 - See <https://github.com/eclipse-sirius/sirius-web>
- Integrate parts of Sirius Web in your own application
- Build a Sirius Web based application

Eclipse SysON



SysON | The NextGen SysML

mbse-syson.org

FEATURES ROADMAP COMMUNITY SOURCE CODE

THE NEXTGEN SYSML MODELING TOOL

Edit SysML v2 models with Eclipse SysON, an open-source and web-based MBSE modeling tool.

[SOURCE CODE](#) [STAY TUNED](#)

Standard Compliant
SysON aims at providing an implementation of the OMG's specification **SysML v2**: language concepts, REST API, and interoperability textual format

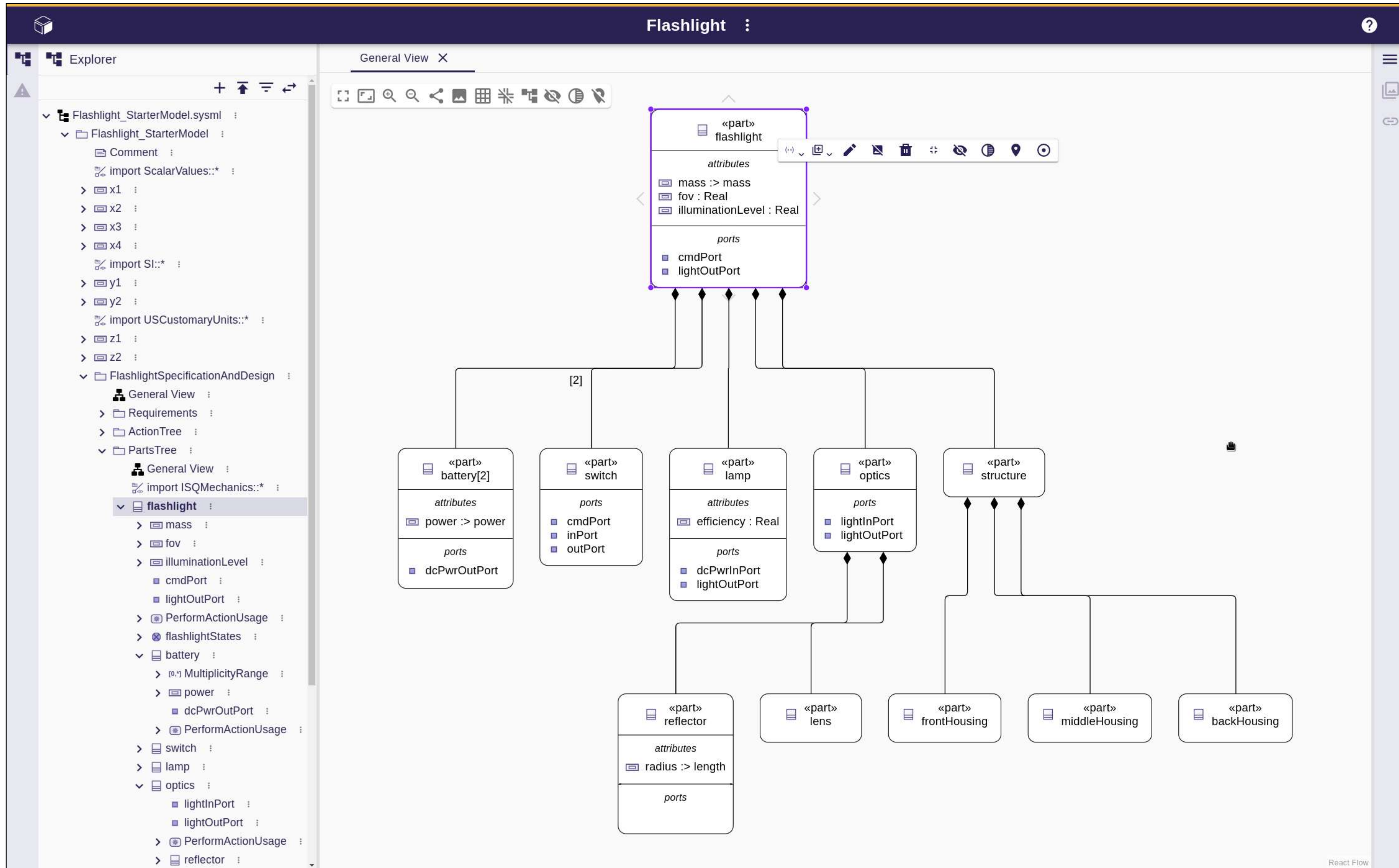
Web-Based
Graphical, form-based and tabular structured editors that can be used from a web browser, without any specific installation on user's desktop

Open-Source
Hosted in the Eclipse community, SysON aims to catalyze industrial collaboration, accelerate innovation, and foster the adoption of SysMLv2

WHY

SysML was created in 2005 as a standard for model-based systems engineering (MBSE) to elevate the role of models as primary tools for communication and documentation.

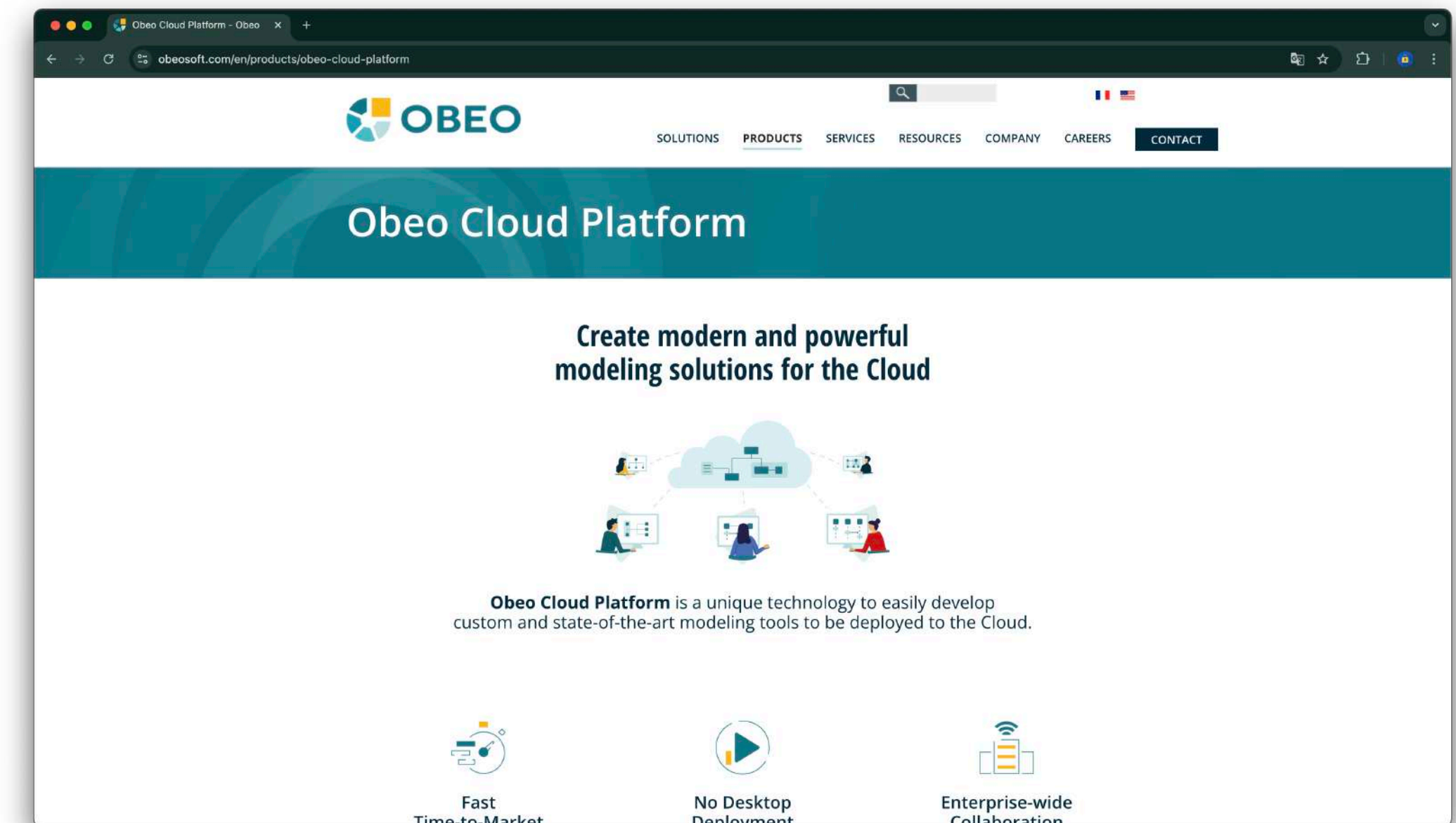
SysON's objective is to provide System Engineers with super easy access to this new standard, at minimal cost and great ease of use, with the guarantee of interoperability with other open-source MBSE tools notably Capella and Papyrus.



Obeo Cloud Platform

- Extension for Sirius Web based applications
- Authentication
 - Login + password
 - OAuth2
- Authorization
 - Team based access control
 - Private projects
- Webhooks

<https://www.obeosoft.com/en/products/obeo-cloud-platform>



Thank you for watching!

Questions?