

# DMN for Developers

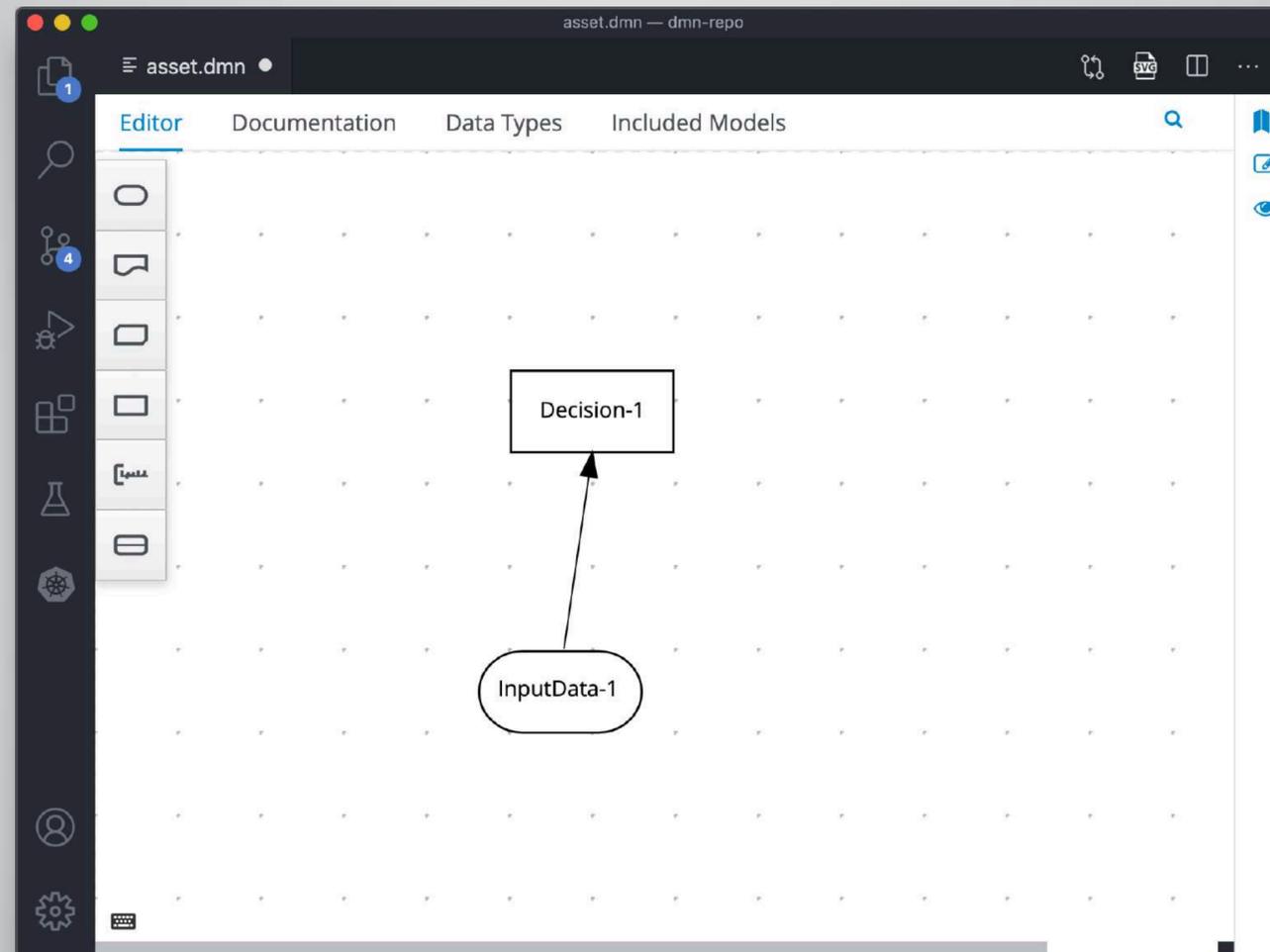
by Guilherme Carreiro (DMN tooling lead)

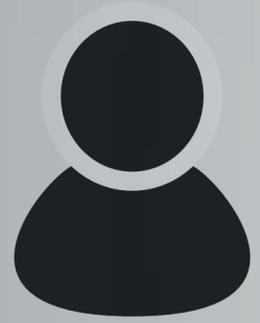
[karreiro.com](http://karreiro.com)

///

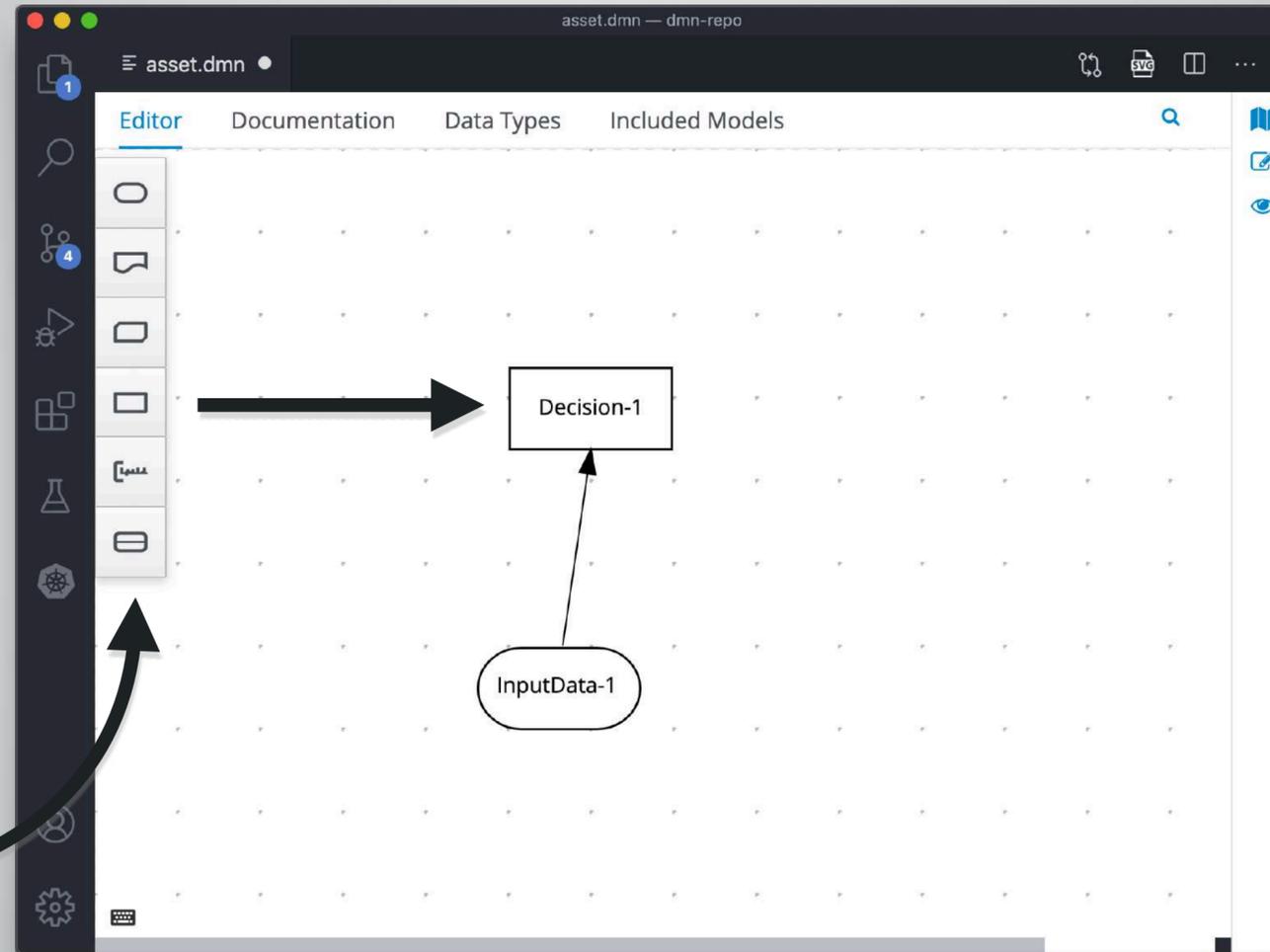
**KIE Live #11**

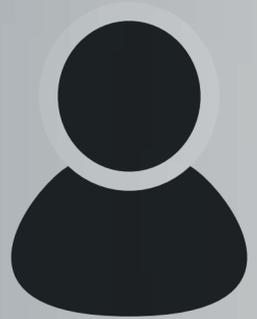
**October 20th**





Everyone



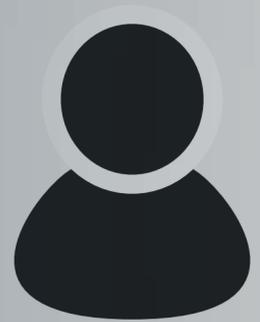


Everyone

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```

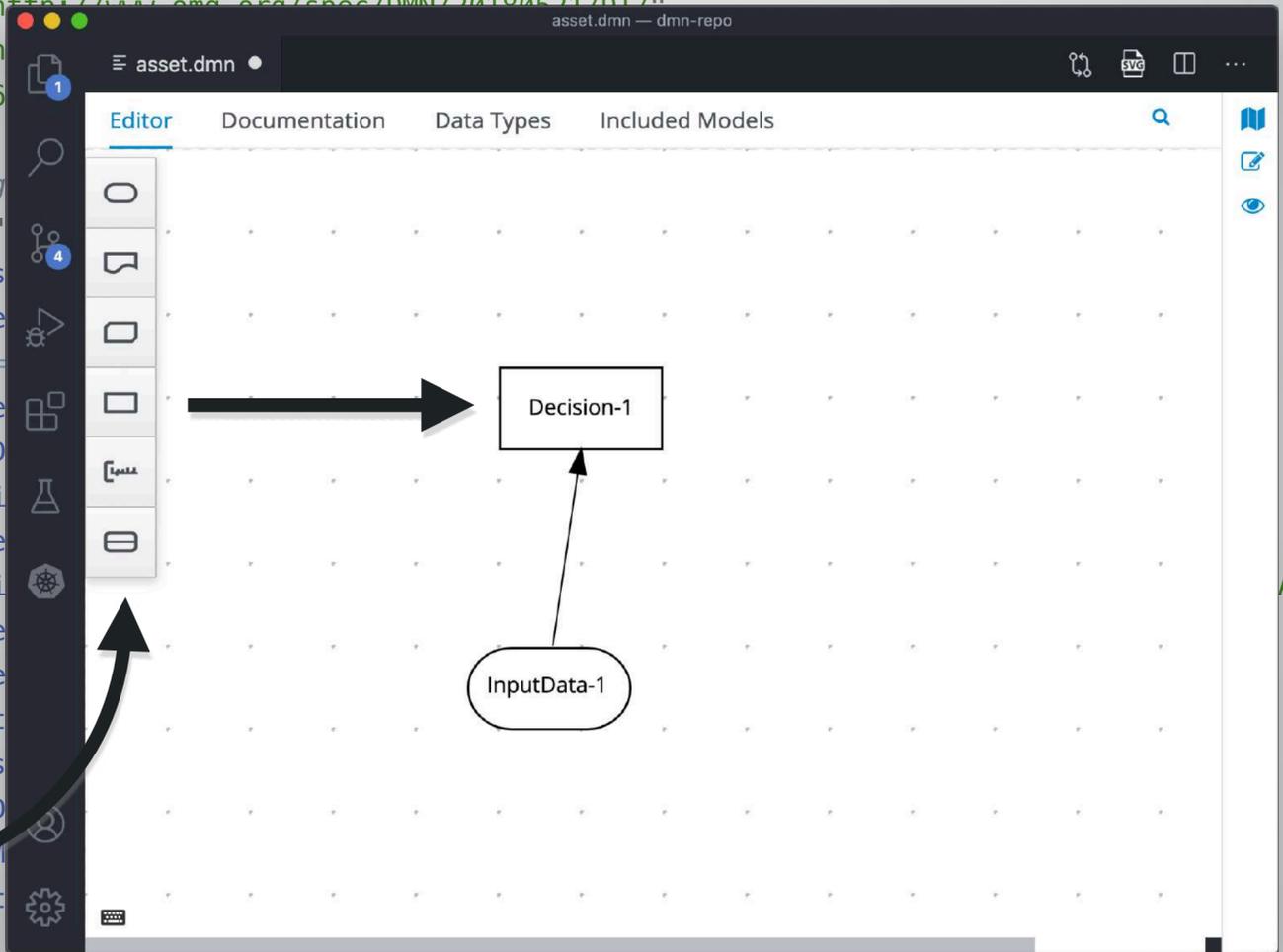


Everyone

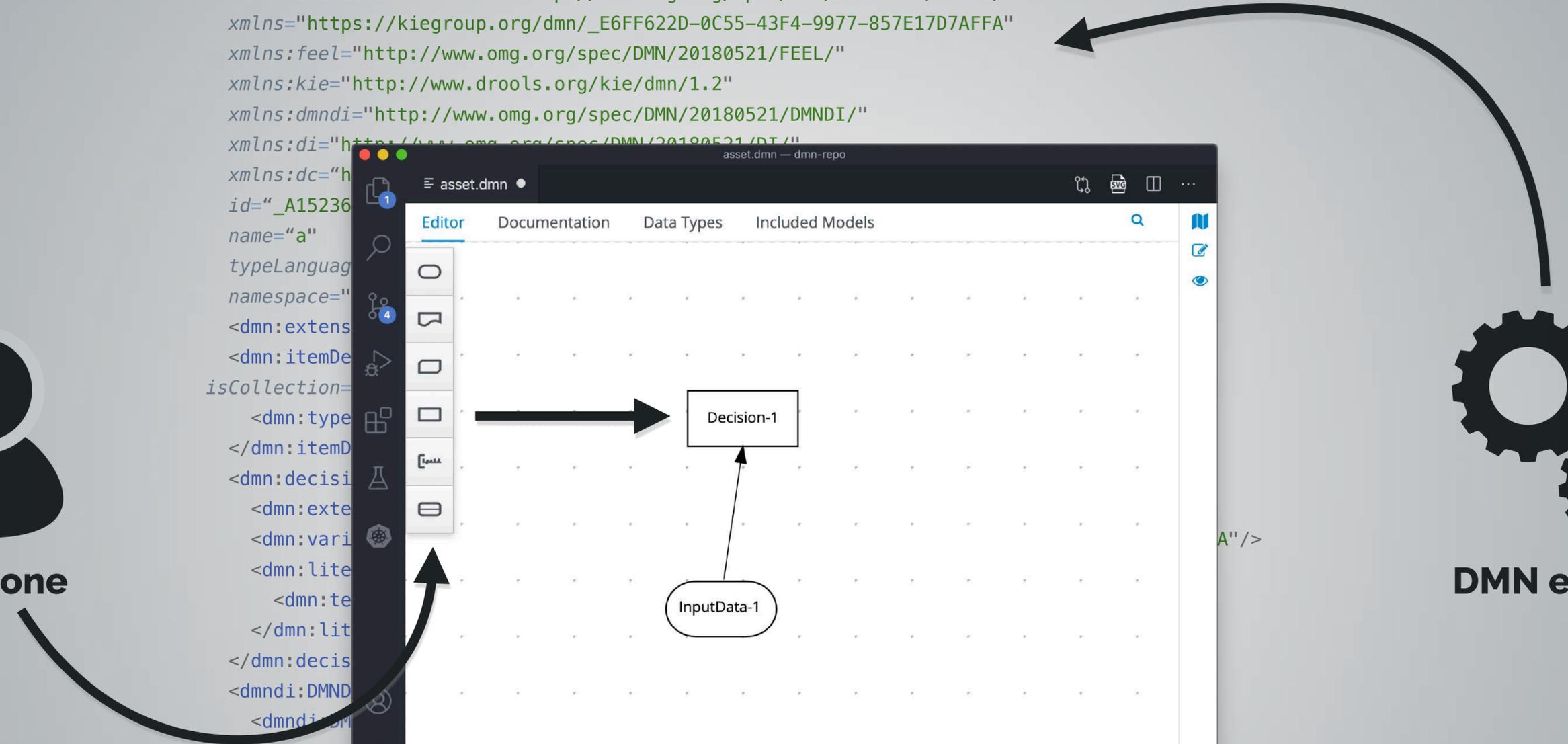
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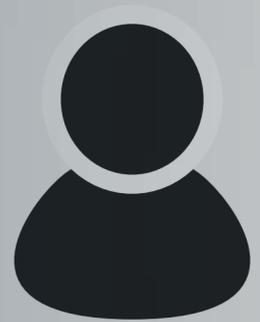
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```



DMN engine



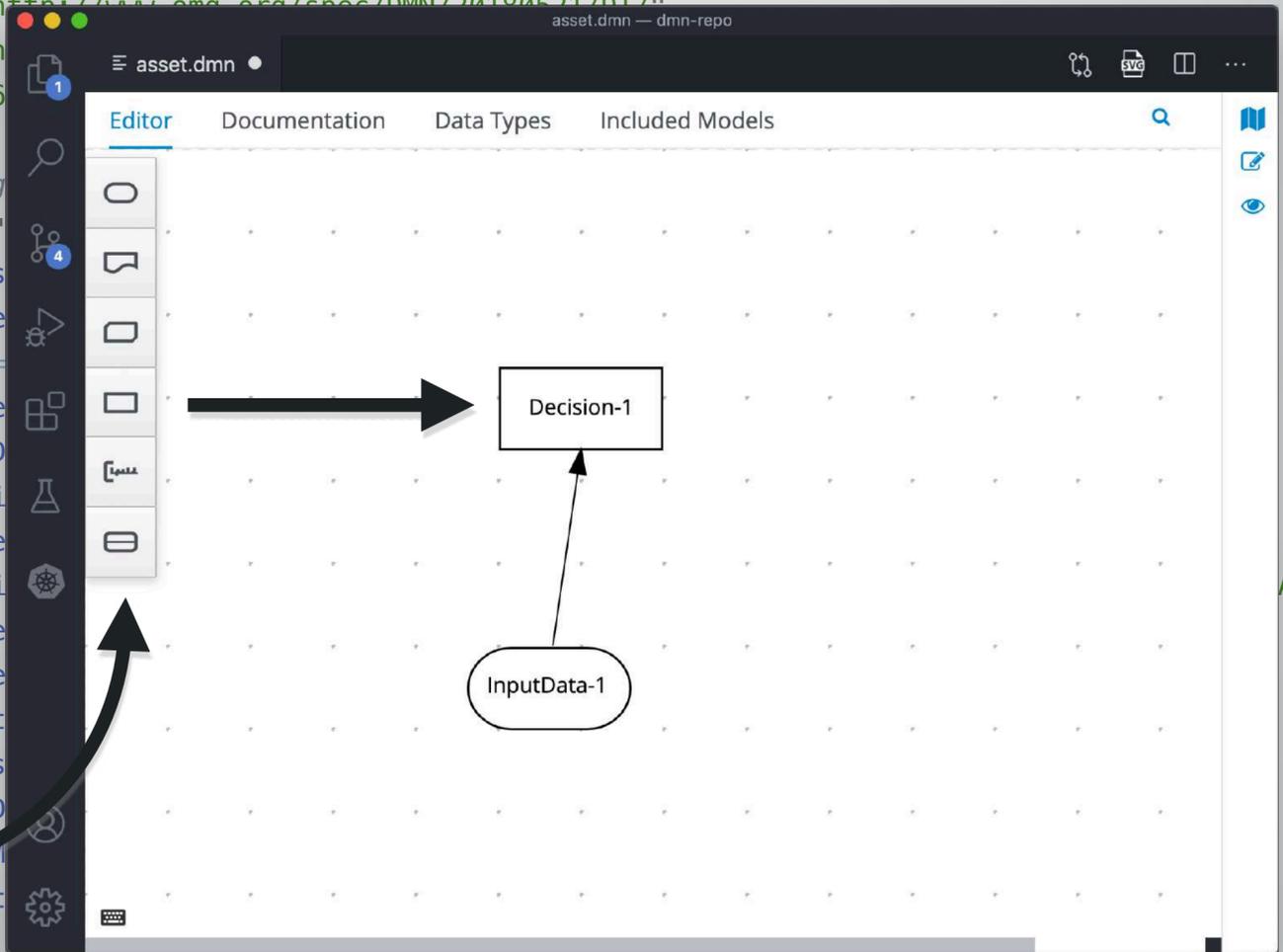


Everyone

```

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```



DMN engine

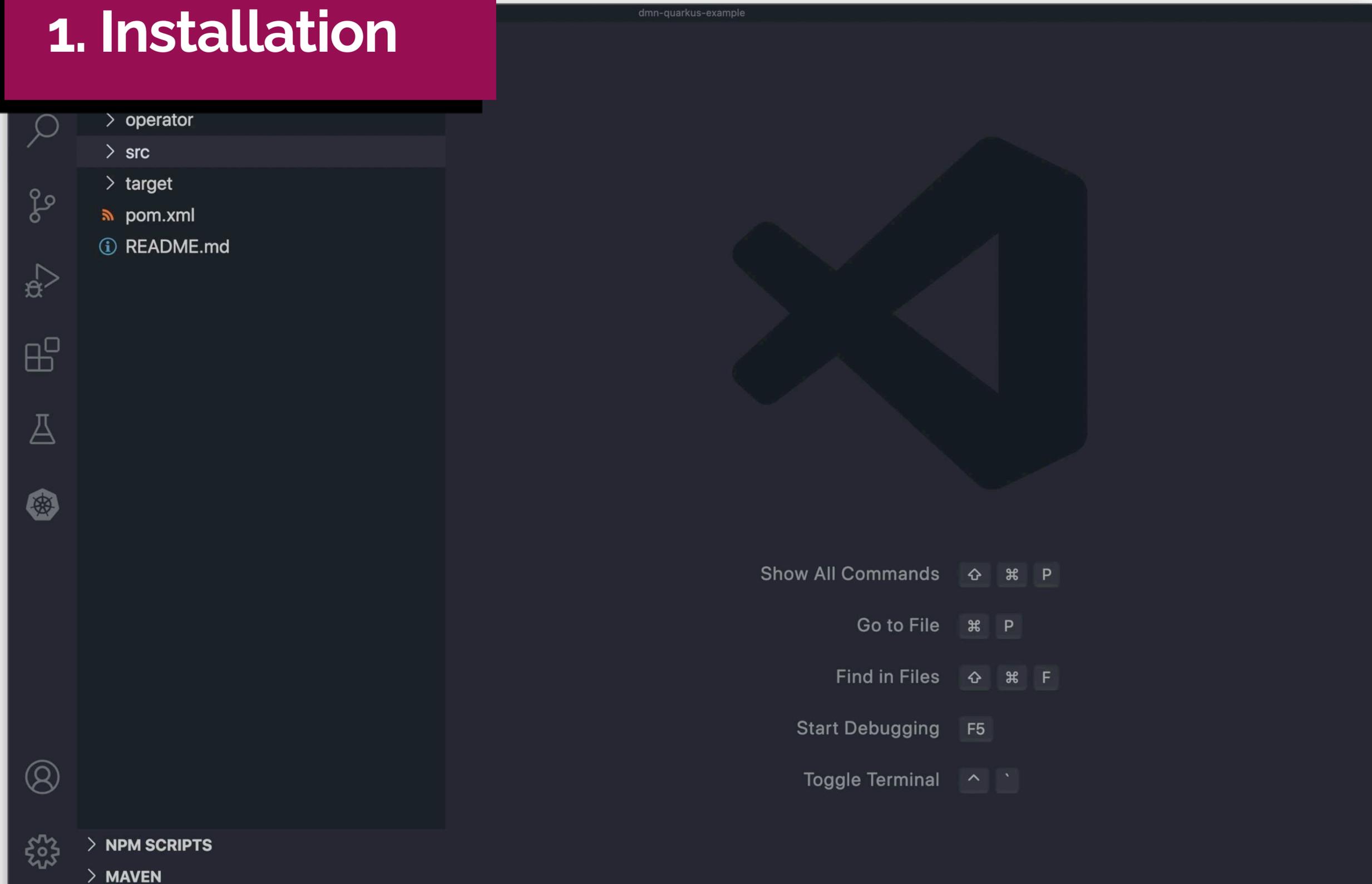


OBJECT MANAGEMENT GROUP®



# 1. Installation

1



## 2. Visual notation

The screenshot shows a web-based interface for editing Decision Model Notation (DMN) diagrams. On the left, a dark sidebar contains a tree view of the project structure:

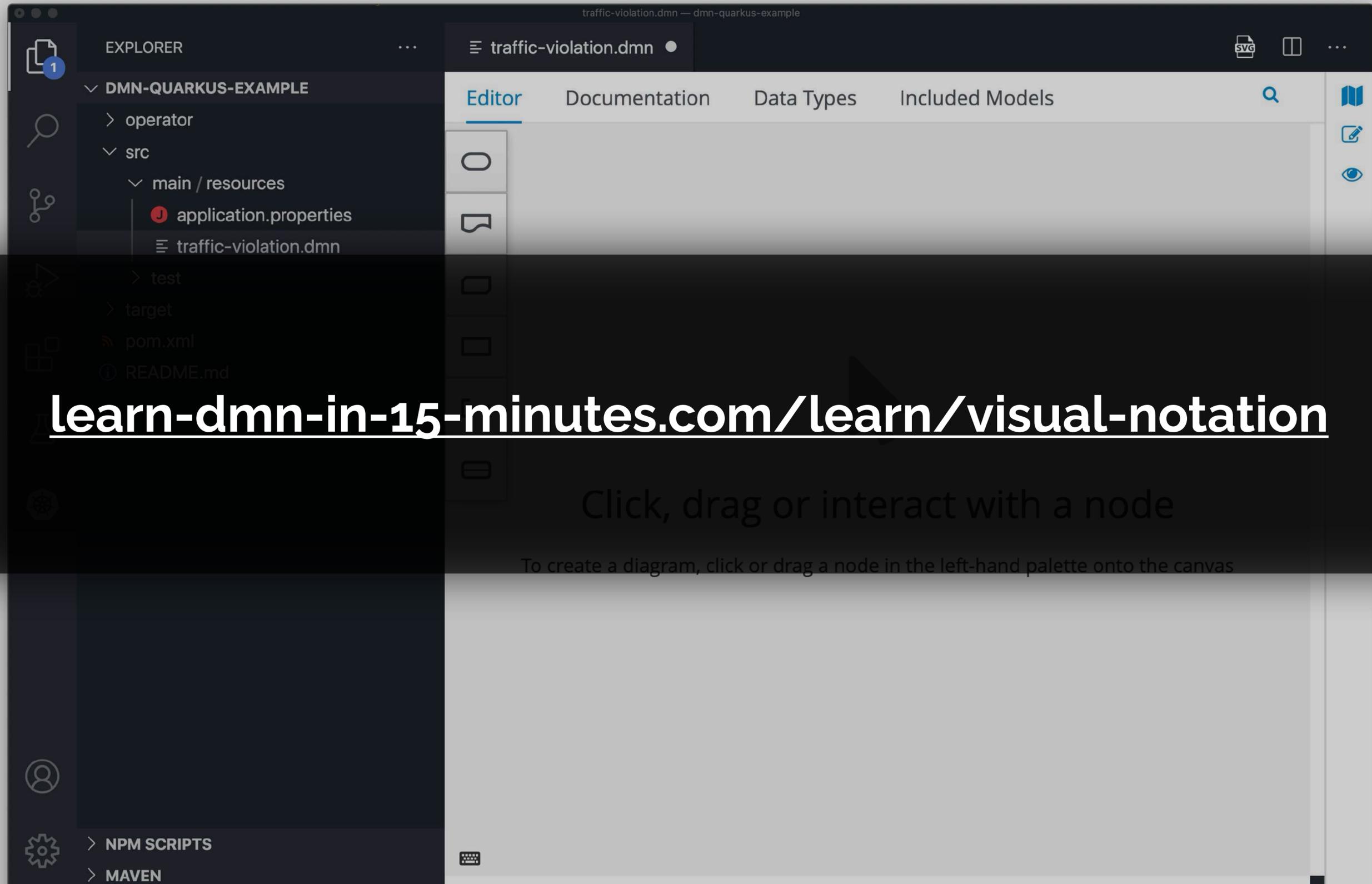
- > operator
- ▼ src
  - ▼ main / resources
    - 🔴 application.properties
    - ☰ traffic-violation.dmn
  - > test
  - > target
  - 📡 pom.xml
  - 📘 README.md
- > NPM SCRIPTS
- > MAVEN

Below the tree view is a vertical toolbar with icons for various actions: a circle, a speech bubble, a rectangle, a square, a key, and a horizontal bar. The main canvas is a light gray area with a mouse cursor pointing towards the center. At the top of the canvas, there are tabs for 'Documentation', 'Data Types', and 'Included Models'. A search icon is visible in the top right corner of the canvas area. The browser's address bar at the top shows 'traffic-violation.dmn — dmn-quarkus-example'.

Click, drag or interact with a node

To create a diagram, click or drag a node in the left-hand palette onto the canvas

2



[learn-dmn-in-15-minutes.com/learn/visual-notation](https://learn-dmn-in-15-minutes.com/learn/visual-notation)

Click, drag or interact with a node

To create a diagram, click or drag a node in the left-hand palette onto the canvas

2

# 3. Data Types

3

The screenshot shows a web-based DMN editor interface. The top navigation bar includes 'Documentation', 'Data Types', and 'Included Models'. The main workspace displays a decision diagram on a grid background. The diagram consists of the following elements:

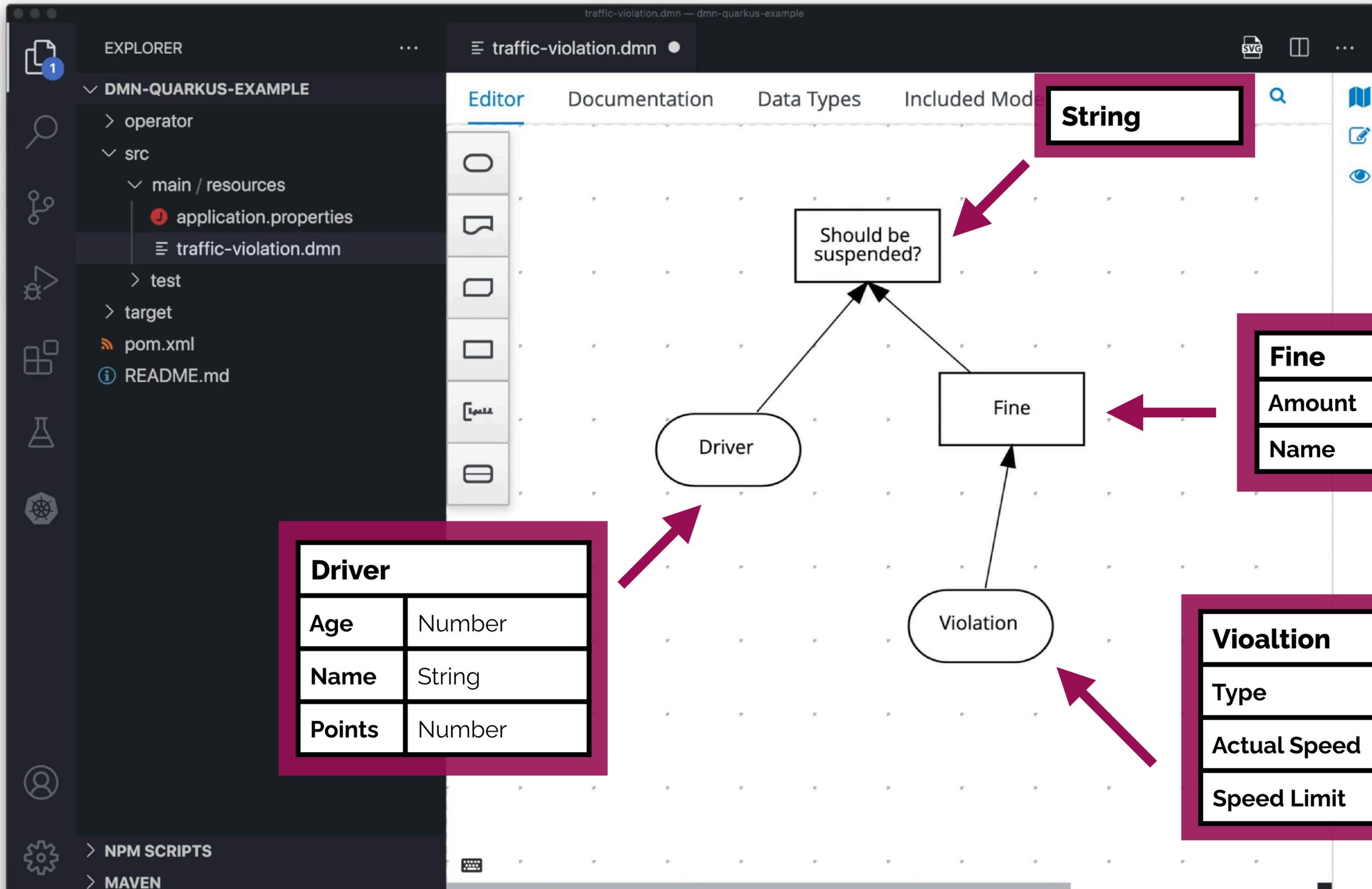
- A decision node (rectangle) labeled "Should be suspended?".
- An input node (oval) labeled "Driver" with an arrow pointing to the decision node.
- An input node (rectangle) labeled "Fine" with an arrow pointing to the decision node.
- An input node (oval) labeled "Violation" with an arrow pointing to the "Fine" node.

The left sidebar shows a file explorer with the following structure:

- operator
- src
  - main / resources
    - application.properties
    - traffic-violation.dmn
- test
- target
- pom.xml
- README.md

At the bottom of the sidebar, there are sections for "NPM SCRIPTS" and "MAVEN".

3



3

The screenshot shows an IDE window titled "traffic-violation.dmn" with a dark theme. The Explorer sidebar on the left shows a project structure for "DMN-QUARKUS-EXAMPLE" with folders for "operator", "src", "test", and "target", and files like "application.properties", "pom.xml", and "README.md". The main editor area displays a Decision Model Notation (DMN) diagram on a grid background. The diagram consists of four nodes: "Driver" (oval), "Violation" (oval), "Fine" (rectangle), and "Should be suspended?" (rectangle). Arrows indicate dependencies: "Driver" and "Violation" both point to "Should be suspended?", and "Violation" also points to "Fine", which in turn points to "Should be suspended?". The IDE interface includes tabs for "Editor", "Documentation", "Data Types", and "Included Models", and various toolbars for editing and viewing the diagram.

3

traffic-violation.dmn — dmn-quarkus-example

EXPLORER

- DMN-QUARKUS-EXAMPLE
  - operator
  - src
    - main / resources
      - application.properties
      - traffic-violation.dmn
    - test
    - target
    - pom.xml
    - README.md

Editor Documentation **Data Types** Included Models

### Custom Data Types

No custom data types have been defined.

Data types are referenced in the input and output values for decision tables. Custom data types allow you to reference more complex data types, beyond the simple "default" types.

Currently, there are no custom data types available for you to view or edit. To get started, add a custom data type.

[+ Add a custom Data Type](#)

3

The screenshot displays an IDE interface for editing a Decision Model and Notation (DMN) file. The main editor window is titled "traffic-violation.dmn" and is currently in the "Data Types" tab. It shows a list of "Custom Data Types" including "Driver (Structure)", "Violation (Structure)", and "Fine (Structure)". Each entry has edit, add, and delete icons. To the left, the Explorer panel shows the project structure for "DMN-QUARKUS-EXAMPLE", with "traffic-violation.dmn" selected under the "src/main/resources" directory. To the right, the Decision Navigator panel shows a tree view of "Decision Graphs" and "Decision Components". The "Decision Components" section is filtered to show four items: "Fine", "Violation", "Should be suspended?", and "Driver", all associated with the "traffic-violation" graph.

traffic-violation.dmn — dmn-quarkus-example

EXPLORER

- DMN-QUARKUS-EXAMPLE
  - operator
  - src
    - main / resources
      - application.properties
      - traffic-violation.dmn
    - test
    - target
    - pom.xml
    - README.md

Editor Documentation **Data Types** Included Models

### Custom Data Types

New Data Type

- > **Driver** (Structure) [edit] [add] [delete]
- > **Violation** (Structure) [edit] [add] [delete]
- > **Fine** (Structure) [edit] [add] [delete]

### Decision Navigator

#### Decision Graphs

- traffic-violation
  - Driver
  - Fine
  - Should be suspended?
  - Violation

#### Decision Components 4

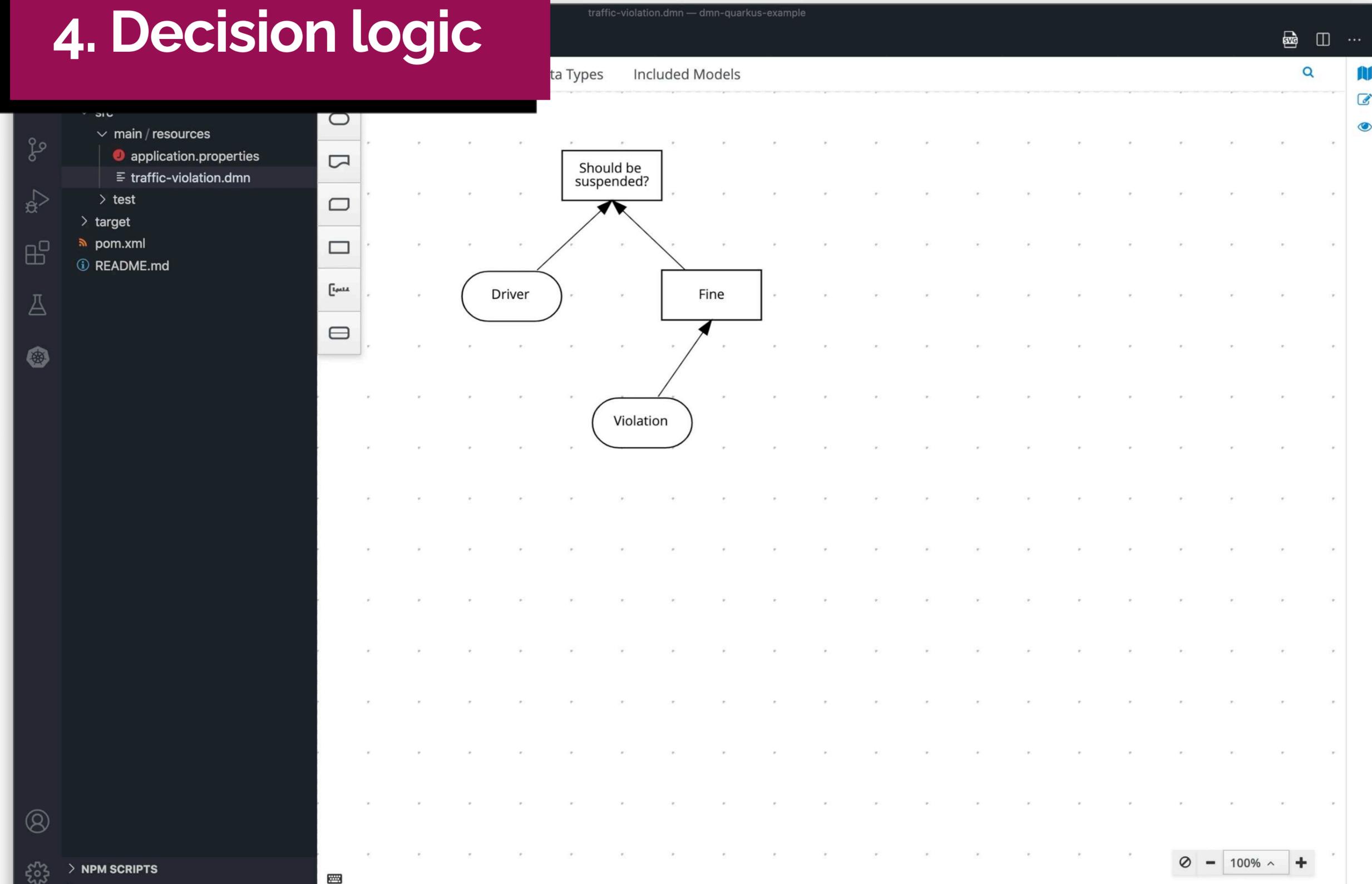
Filter by

- Fine**  
traffic-violation
- Violation**  
traffic-violation
- Should be suspended?**  
traffic-violation
- Driver**  
traffic-violation

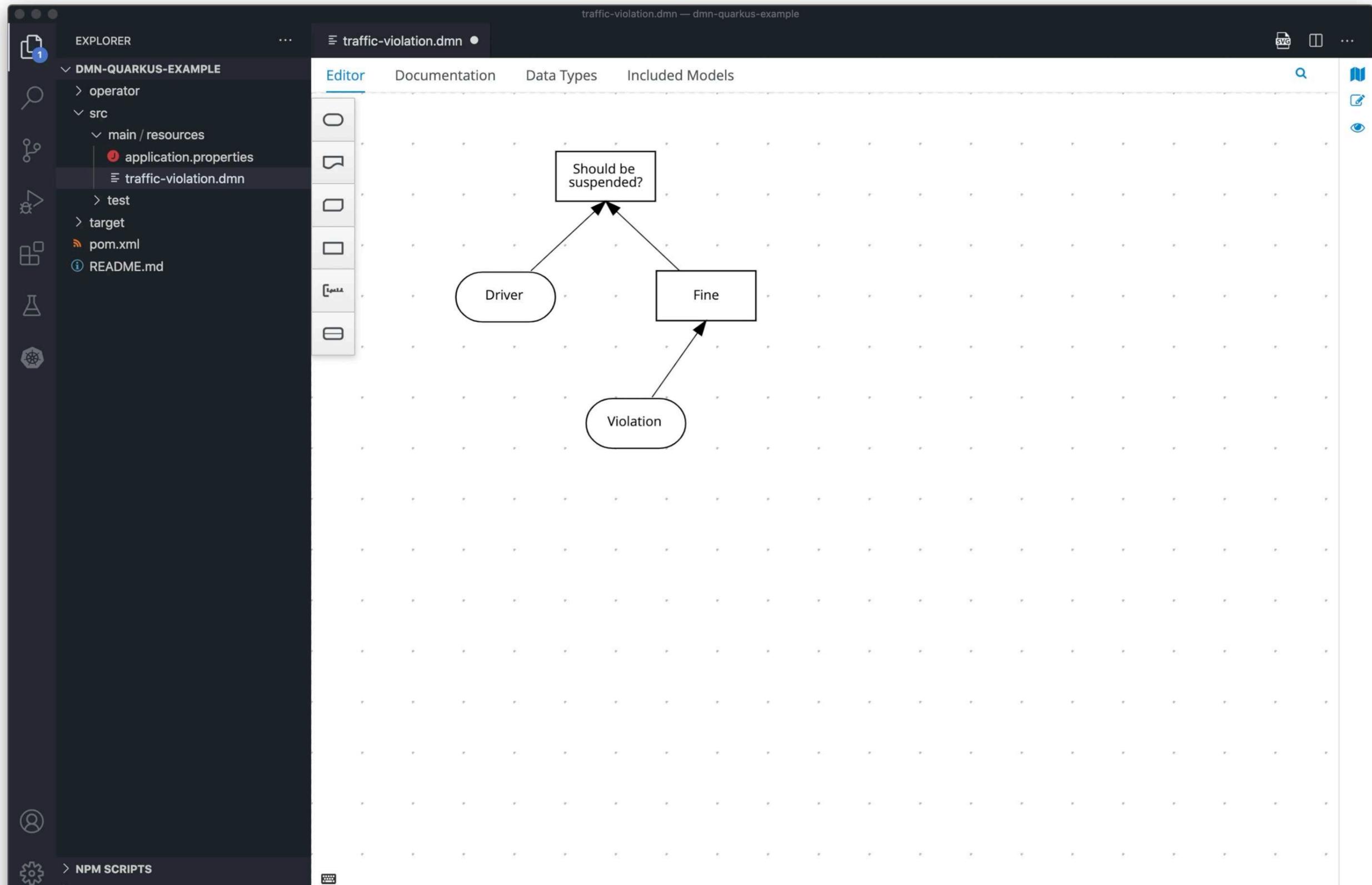
NPM SCRIPTS

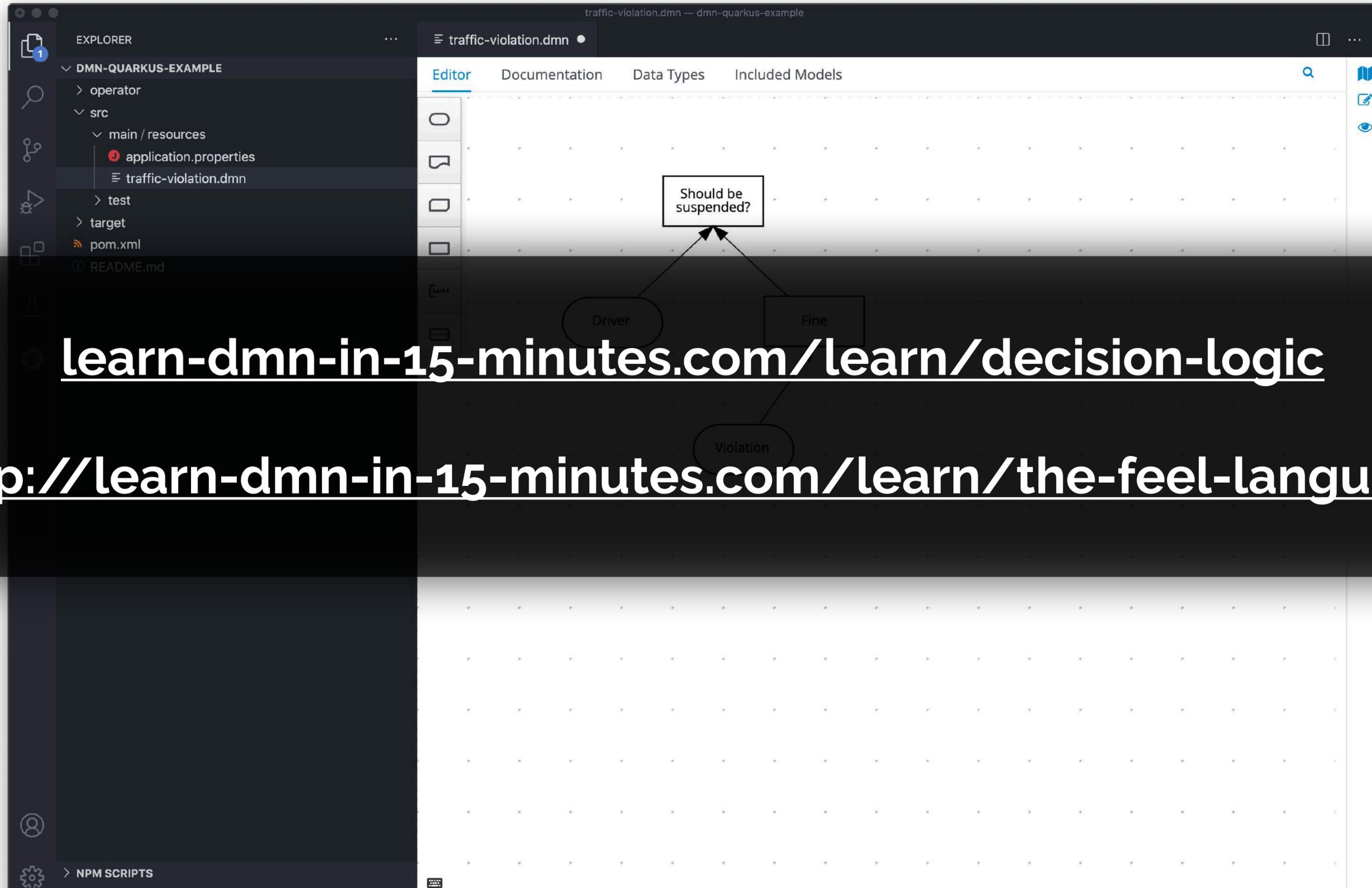
# 4. Decision logic

4



4



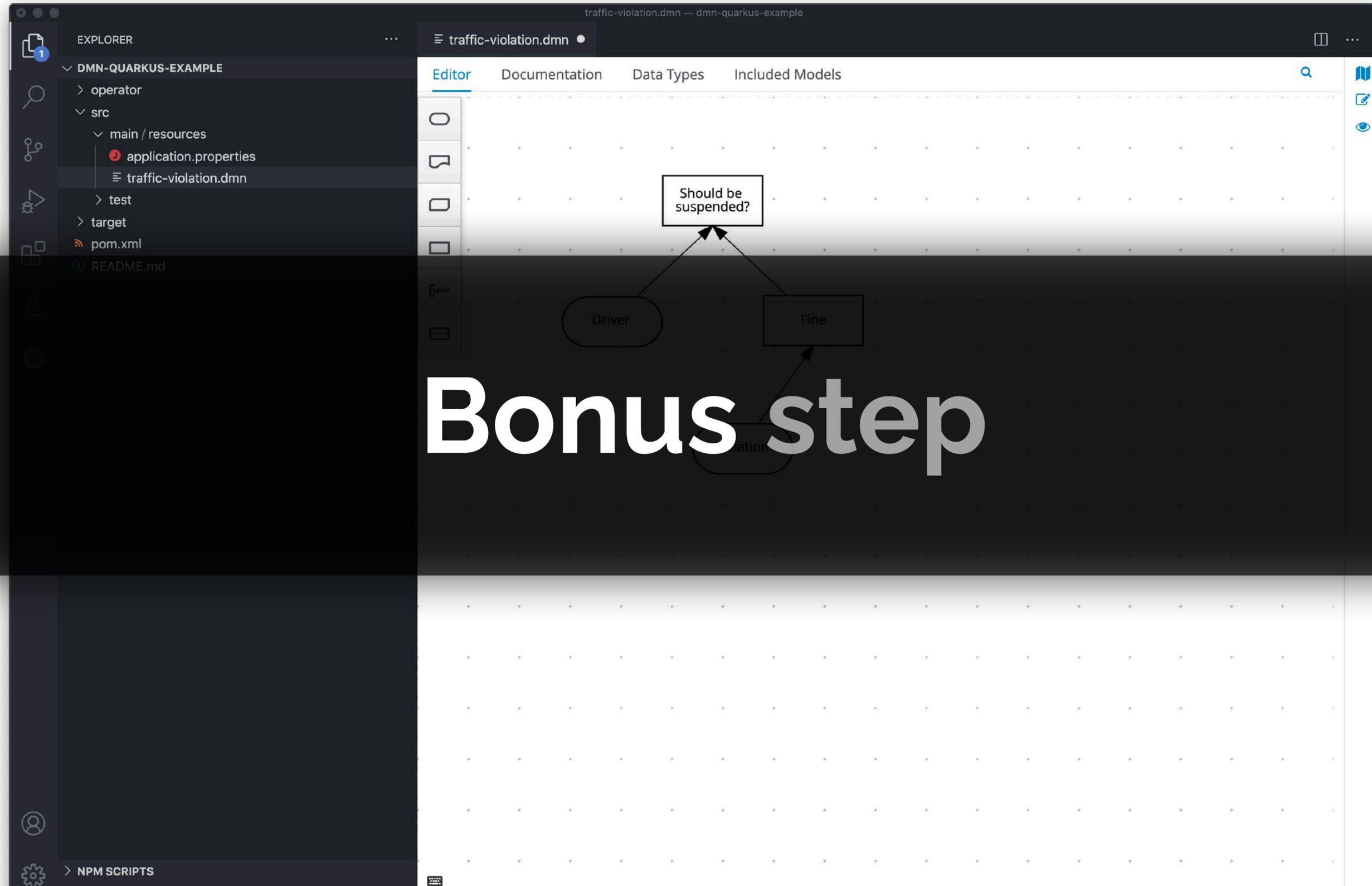


[learn-dmn-in-15-minutes.com/learn/decision-logic](http://learn-dmn-in-15-minutes.com/learn/decision-logic)

<http://learn-dmn-in-15-minutes.com/learn/the-feel-language>

4







# Execution

The screenshot shows a web-based DMN editor interface. The main workspace displays a decision table with the following structure:

```
graph TD; Driver([Driver]) --> Suspended{Should be suspended?}; Violation([Violation]) --> Fine[Fine]; Fine --> Suspended;
```

The interface includes a left-hand sidebar with a file explorer showing a project structure with folders like 'src', 'main/resources', 'test', and 'target', and files like 'pom.xml' and 'README.md'. The top navigation bar contains tabs for 'Documentation', 'Data Types', and 'Included Models'. The main workspace has a grid background and a toolbar on the left with various editing tools.



traffic-violation.dmn — dmn-quarkus-example

EXPLORER

- DMN-QUARKUS-EXAMPLE
  - operator
  - src
    - main / resources
      - traffic-violation
    - test
    - target
    - pom.xml
    - README.md

traffic-violation.dmn ×

Editor Documentation Data Types Included Models

dmn-quarkus-example\$

dmn-quarkus-example — -zsh — 80x24

NPM SCRIPTS  
MAVEN

100%



The image shows a screenshot of the Visual Studio Code (VS Code) editor interface. The main window displays a file named `traffic-violation.dmn` in the `DMN-QUARKUS-EXAMPLE` project. The Explorer sidebar on the left shows the project structure, including folders like `operator`, `src`, `main/resources`, `test`, and `target`, along with files `pom.xml` and `README.md`. The Editor view shows the `traffic-violation.dmn` file, with tabs for `Editor`, `Documentation`, `Data Types`, and `Included Models`. A terminal window is open in the foreground, displaying the prompt `dmn-quarkus-example$` and a cursor. The terminal title bar indicates the current directory is `dmn-quarkus-example` and the shell is `-zsh - 80x24`. The bottom status bar shows the zoom level is set to 100%.





The screenshot shows an IDE window with a REST client tab titled "traffic-violation.dmn". The client is configured for a POST request to `http://localhost:8080/traffic-violation` with the following JSON body:

```
quote> "Driver": { "Name": "Guilherme", "Points": 16 },
quote> "Violation": { "Type": "speed", "Speed Limit": 60, "Actual Speed": 75 }
quote> }
```

The response received is:

```
{"Violation":{"Type":"speed","Speed Limit":60,"Actual Speed":75},"Driver":{"Points":16,"Name":"Guilherme"},"Should be suspended?":"NO","Fine":{"Points":3,"Amount":200}}
```

The IDE's Explorer sidebar shows the project structure for "DMN-QUARKUS-EXAMPLE", including folders for "operator", "src", "main/resources", "test", and "target", along with files "pom.xml" and "README.md".



```
def create
  @violation = Violation.new(violation_params)

  respond_to do |format|
    if @violation.save

      result = DmnModel.execute(@violation) # Execute via REST API
      driver = @violation.driver
      driver.points += result['Fine']['Points']
      driver.suspended = result['Should be suspended?'] == 'YES'
      driver.save!

      format.html { redirect_to @violation, notice: 'Violation was successfully created.' }
    else
      format.html { render :new }
    end
  end
end
```

```
def create
  @violation = Violation.new(violation_params)

  respond_to do |format|
    if @violation.save

      result = DmnModel.execute(@violation) # Execute via REST API
      driver = @violation.driver
      driver.points += result['Fine']['Points']
      driver.suspended = result['Should be suspended?'] == 'YES'
      driver.save!

      format.html { redirect_to @violation, notice: 'Violation was successfully created.' }
    else
      format.html { render :new }
    end
  end
end
```

<https://github.com/karreiro/dmn-on-rails-example>

The screenshot shows a web browser window displaying the GitHub repository page for 'karreiro/dmn-on-rails-example'. The browser's address bar shows 'github.com'. The repository page includes a search bar, navigation links for Pull requests, Issues, Codespaces, Marketplace, and Explore. The repository name 'karreiro / dmn-on-rails-example' is displayed with 1 watch, 0 stars, and 0 forks. Below this, there are tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area shows the repository's file structure, including folders like 'app', 'bin', 'config', 'db', 'lib', 'log', 'public', 'storage', 'test', 'tmp', and 'vendor', and files like '.browserslistrc' and '.gitignore'. A commit by 'karreiro' updating 'README.md' is visible at the top of the file list. The right sidebar contains sections for 'About' (no description), 'Releases' (no releases published), and 'Packages' (no packages published).

karreiro / **dmn-on-rails-example** Unwatch 1 Star 0 Fork 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

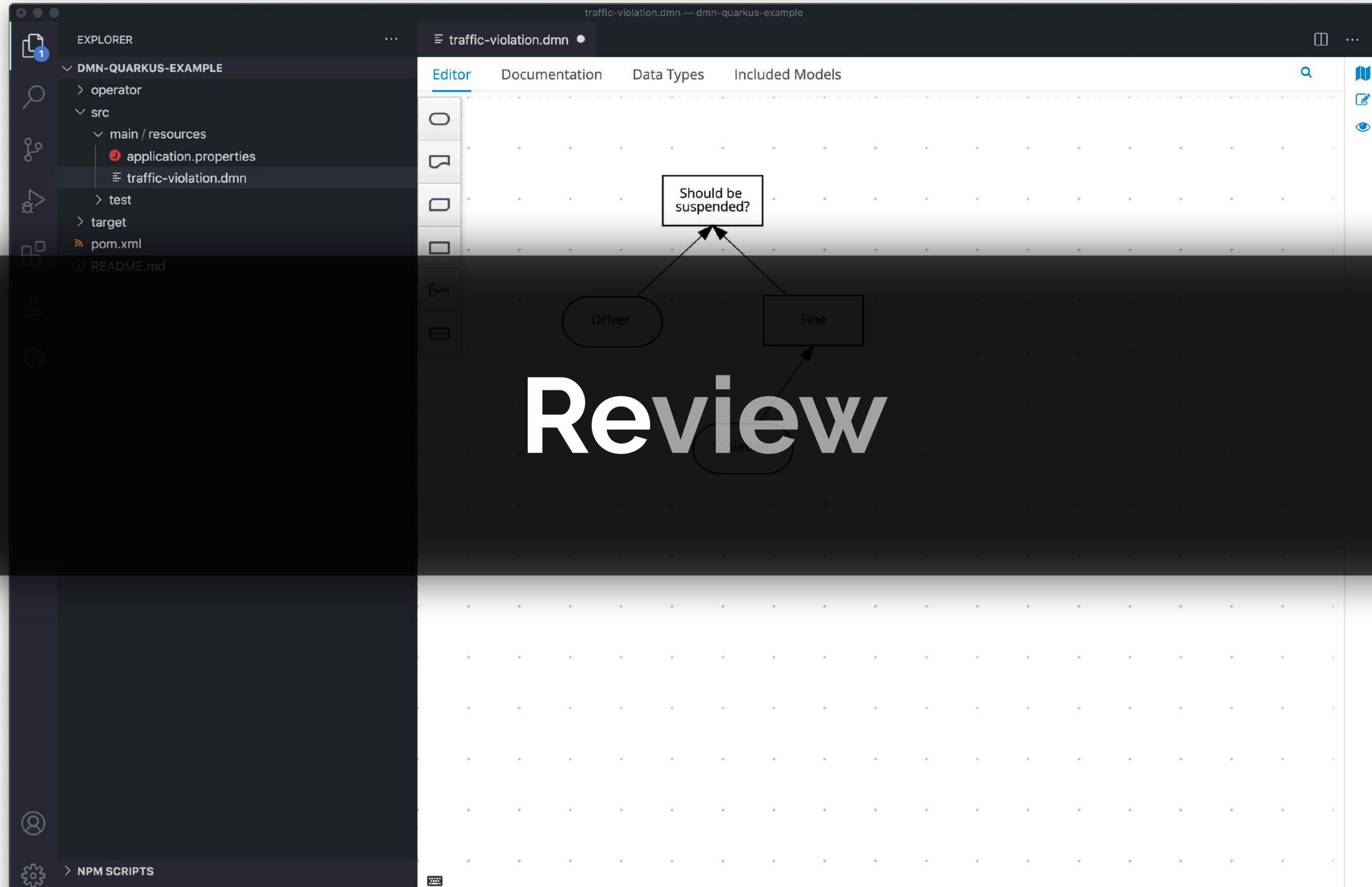
karreiro Update README.md 8ea05d4 25 seconds ago 2 commits

app	Init	11 minutes ago
bin	Init	11 minutes ago
config	Init	11 minutes ago
db	Init	11 minutes ago
lib	Init	11 minutes ago
log	Init	11 minutes ago
public	Init	11 minutes ago
storage	Init	11 minutes ago
test	Init	11 minutes ago
tmp	Init	11 minutes ago
vendor	Init	11 minutes ago
.browserslistrc	Init	11 minutes ago
.gitignore	Init	11 minutes ago

**About** No description, website, or topics provided. [Readme](#)

**Releases** No releases published [Create a new release](#)

**Packages** No packages published [Publish your first package](#)



traffic-violation.dmn — dmn-quarkus-example

EXPLORER

- DMN-QUARKUS-EXAMPLE
  - operator
  - src
    - main / resources
      - application.properties
      - traffic-violation.dmn
    - test
    - target
  - pom.xml
  - README.md

Editor Documentation Data Types Included Models

```
graph BT; Driver([Driver]) --> Suspended[Should be suspended?]; Violation([Violation]) --> Fine[Fine]; Fine --> Suspended;
```

The diagram illustrates a decision model structure. It features four nodes: 'Driver' (oval), 'Violation' (oval), 'Fine' (rectangle), and 'Should be suspended?' (rectangle). Arrows indicate dependencies: 'Driver' points to 'Should be suspended?', 'Violation' points to 'Fine', and 'Fine' points to 'Should be suspended?'.

Installation

The screenshot displays an IDE window titled "traffic-violation.dmn — dmn-quarkus-example". The Explorer sidebar on the left shows a project structure with folders for "operator", "src", "test", and "target", and files for "application.properties", "traffic-violation.dmn", "pom.xml", and "README.md". A yellow arrow points from the text "Installation" to the Explorer sidebar. The main editor area shows a DMN diagram with the following structure:

```
graph BT; Driver([Driver]) --> Suspended[Should be suspended?]; Violation([Violation]) --> Fine[Fine]; Fine --> Suspended;
```

The diagram consists of four nodes: "Driver" (oval), "Violation" (oval), "Fine" (rectangle), and "Should be suspended?" (rectangle). Arrows indicate that "Driver" leads to "Should be suspended?", "Violation" leads to "Fine", and "Fine" leads to "Should be suspended?". A green arrow points from the text "Visual notation" to the diagram.

The image shows a screenshot of an IDE (IntelliJ IDEA) with a DMN (Decision Model and Notation) diagram open in the editor. The diagram is titled "traffic-violation.dmn" and is located in the "DMN-QUARKUS-EXAMPLE" project. The diagram consists of the following elements:

- Nodes:**
  - Driver:** An oval-shaped entity node.
  - Violation:** An oval-shaped entity node.
  - Fine:** A rectangular decision node.
  - Should be suspended?:** A rectangular decision node.
- Relationships (Arrows):**
  - An arrow points from **Driver** to **Should be suspended?**.
  - An arrow points from **Violation** to **Fine**.
  - An arrow points from **Fine** to **Should be suspended?**.

The IDE interface includes an Explorer sidebar on the left showing the project structure, a top toolbar with tabs for Editor, Documentation, Data Types, and Included Models, and a bottom status bar with NPM Scripts. Three annotations are present:

- Installation:** A yellow arrow pointing to the Explorer sidebar.
- Visual notation:** A green arrow pointing to the DMN diagram.
- Data Types:** An orange arrow pointing to the "Data Types" tab in the top toolbar.

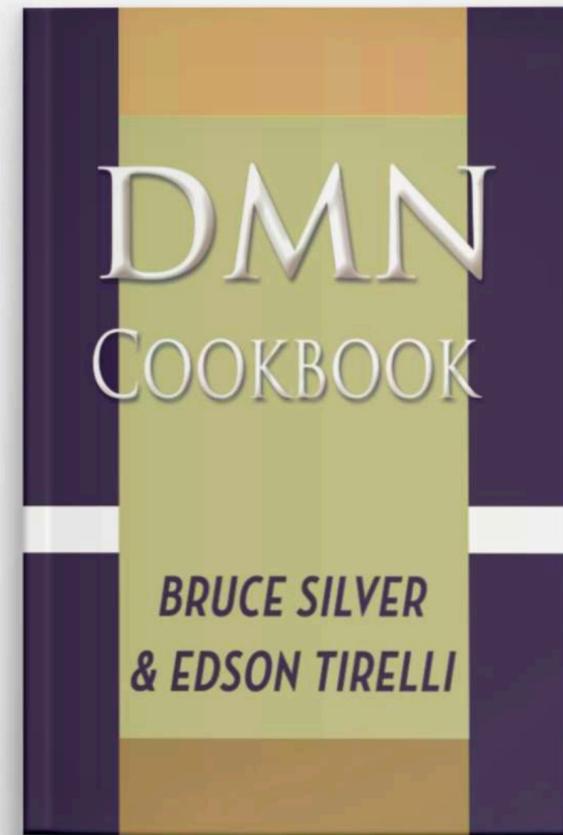
The image shows a screenshot of a software development environment, specifically a DMN (Decision Model and Notation) editor. The interface includes an Explorer panel on the left, a main editor area, and a top navigation bar. The Explorer panel shows a project structure for 'DMN-QUARKUS-EXAMPLE' with folders for 'operator', 'src', and 'test'. The 'src' folder contains 'main/resources' with files 'application.properties' and 'traffic-violation.dmn'. The 'test' folder contains 'target' with files 'pom.xml' and 'README.md'. The main editor area displays a decision diagram for 'traffic-violation.dmn'. The diagram consists of a decision node 'Should be suspended?' (rectangle) with two outgoing arrows. One arrow points to an oval node 'Driver', and the other points to a rectangle node 'Fine'. The 'Fine' node has an incoming arrow from an oval node 'Violation'. The top navigation bar has tabs for 'Editor', 'Documentation', 'Data Types', and 'Included Models'. The 'Data Types' tab is selected. Three annotations with arrows point to specific elements: a yellow arrow labeled 'Installation' points to the Explorer panel; a green arrow labeled 'Visual notation' points to the diagram's grid; and a blue arrow labeled 'Decision logic' points to the 'Should be suspended?' node. An orange arrow labeled 'Data Types' points to the 'Data Types' tab in the top navigation bar.

Installation

Visual notation

Decision logic

Data Types



<https://bit.ly/dmn-cookbook>



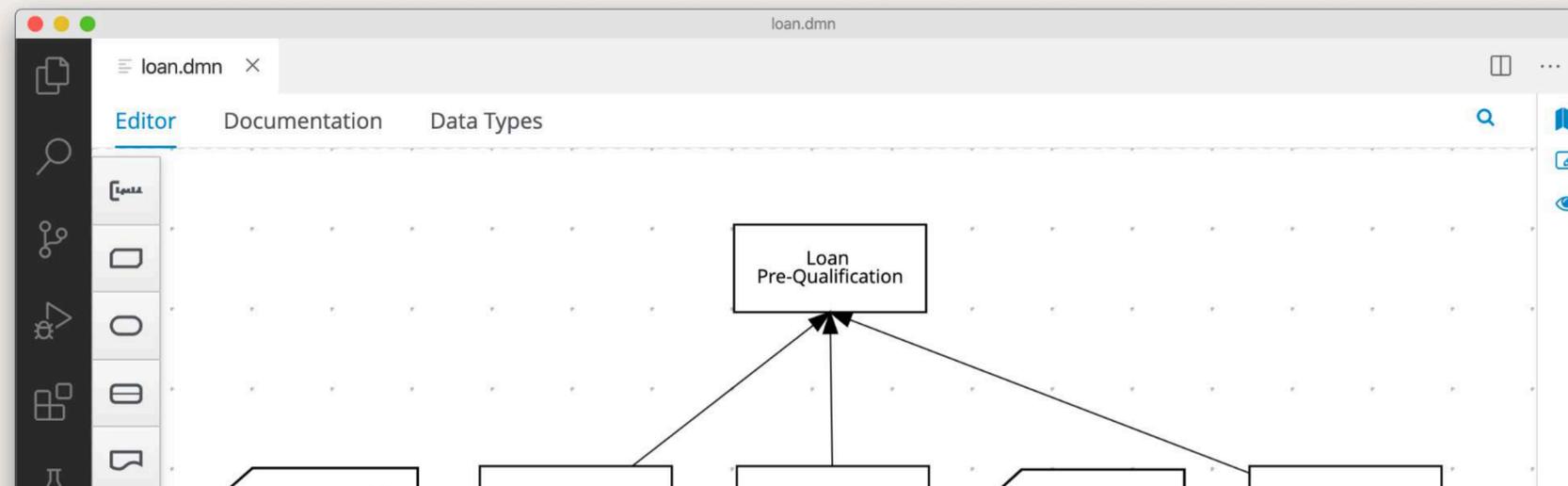
# Learn DMN in 15 minutes

START LEARNING NOW!

— or —

[Try the DMN online editor](#)

The Decision Model and Notation (DMN™) is a Standard by [OMG®](#), providing a conventional and visual notation readily understandable by all users and personas.



# Thank you!

[karreiro.com/talks](https://karreiro.com/talks)

```
xmlns:feel="http://www.omg.org/spec/DMN/20180521/FEEL/"
xmlns:kie="http://www.drools.org/kie/dmn/1.2"
xmlns:dmndi="http://www.omg.org/spec/DMN/20180521/DMNDI/"
xmlns:di="http://www.omg.org/spec/DMN/20180521/DI/"
xmlns:dc="http://www.omg.org/spec/DMN/20180521/DC/"
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name="a"
typeLanguage="http://www.omg.org/spec/DMN/20180521/DMNTypeLanguage"
namespace="https://www.drools.org/kie/dmn/1.2"
<dmn:extensionBase href="https://www.drools.org/kie/dmn/1.2" id="dmn:dmn" type="dmn:DecisionModel" />
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</dmn:itemDefinition>
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</dmn:literalExpression>
</dmn:decision>
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</kie:Component>
</kie:Component>
</dmndi:DMNDIa>
<dmndi:DMNSStyle href="https://www.drools.org/kie/dmn/1.2" id="dmndi:dmn" type="dmndi:DMNSStyle" />
dmnElementRef="_DC"
<dmndi:DMNSStyle href="https://www.drools.org/kie/dmn/1.2" id="dmndi:dmn" type="dmndi:DMNSStyle" />
<dmndi:FillColor href="https://www.drools.org/kie/dmn/1.2" id="dmndi:dmn" type="dmndi:FillColor" />
<dmndi:StrokeColor red="0" green="0" blue="0" />
<dmndi:FontColor red="0" green="0" blue="0" />
</dmndi:DMNSStyle>
```

```
graph TD
    Driver([Driver]) --> Suspended[Should be suspended?]
    Fine[Fine] --> Suspended
    Violation([Violation]) --> Fine
```

The screenshot shows an IDE window titled 'traffic-violation.dmn' with a dark theme. On the left, an Explorer sidebar shows a project structure for 'DMN-QUARKUS-EXAMPLE' with folders for 'operator', 'src', 'test', and 'target', and files 'pom.xml' and 'README.md'. The main editor area displays a DMN diagram with a decision node 'Should be suspended?' (rectangle) and two input nodes 'Driver' and 'Fine' (ovals). 'Driver' and 'Fine' both have arrows pointing to the decision node. 'Fine' also has an arrow pointing to it from an input node 'Violation' (oval). The background shows a faint XML code editor with DMN-related tags like 'xmlns:feel', 'xmlns:kie', 'xmlns:dmndi', 'xmlns:di', 'xmlns:dc', 'id', 'name', 'typeLanguage', 'namespace', 'dmn:extensionBase', 'dmn:itemDefinition', 'isCollection', 'dmn:typeRef', 'dmn:decision', 'dmn:extensionBase', 'dmn:variable', 'dmn:literalExpression', 'dmn:text', 'dmndi:DMNDI', 'dmndi:DMNDIa', 'di:extensionBase', 'kie:Component', 'kie:Variable', 'dmndi:DMNSStyle', 'dmnElementRef', 'dmndi:DMNSStyle', 'dmndi:FillColor', 'dmndi:StrokeColor', and 'dmndi:FontColor'.