

# DMN for Developers

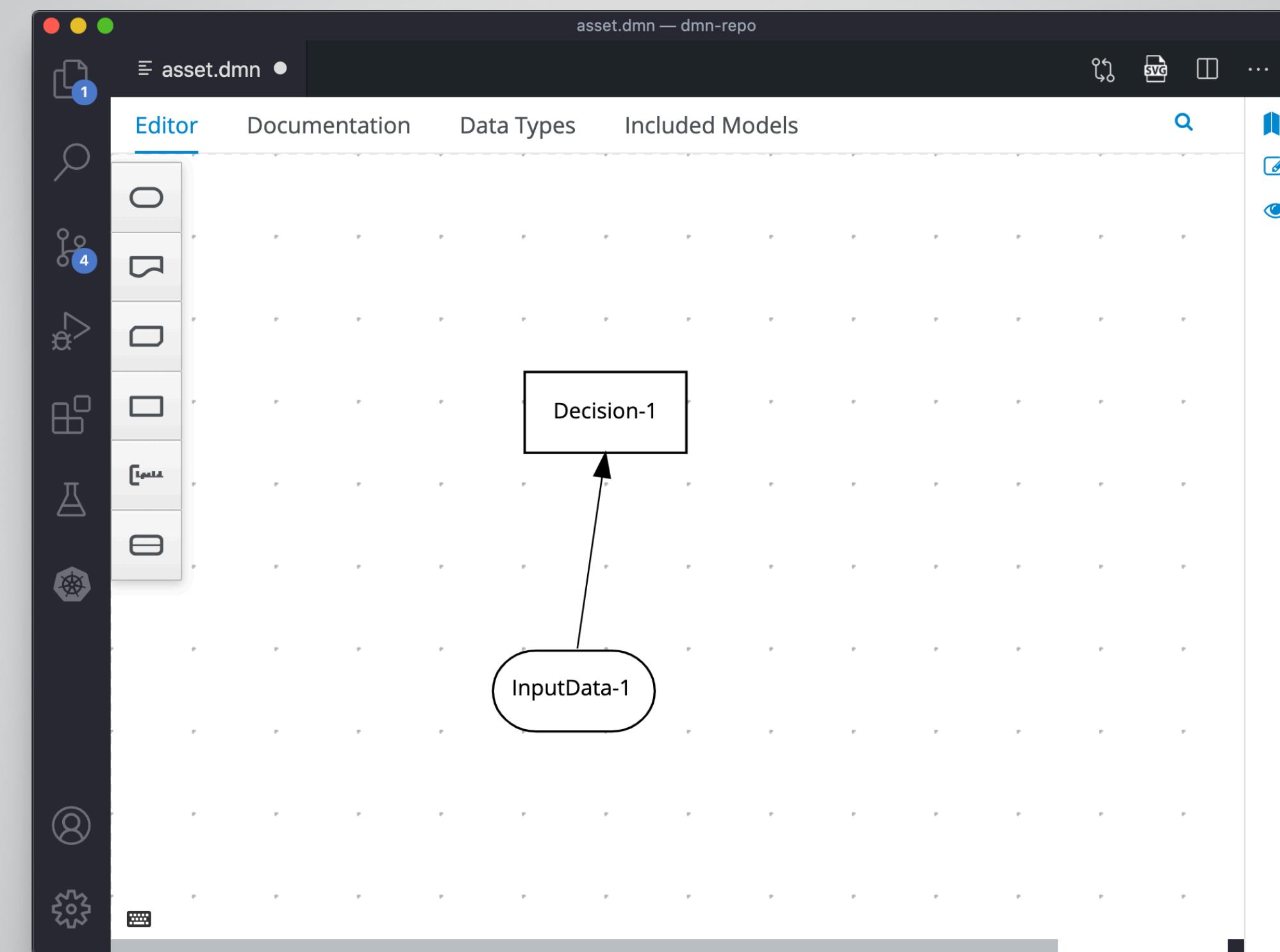
by Guilherme Carreiro (DMN tooling lead)

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

///

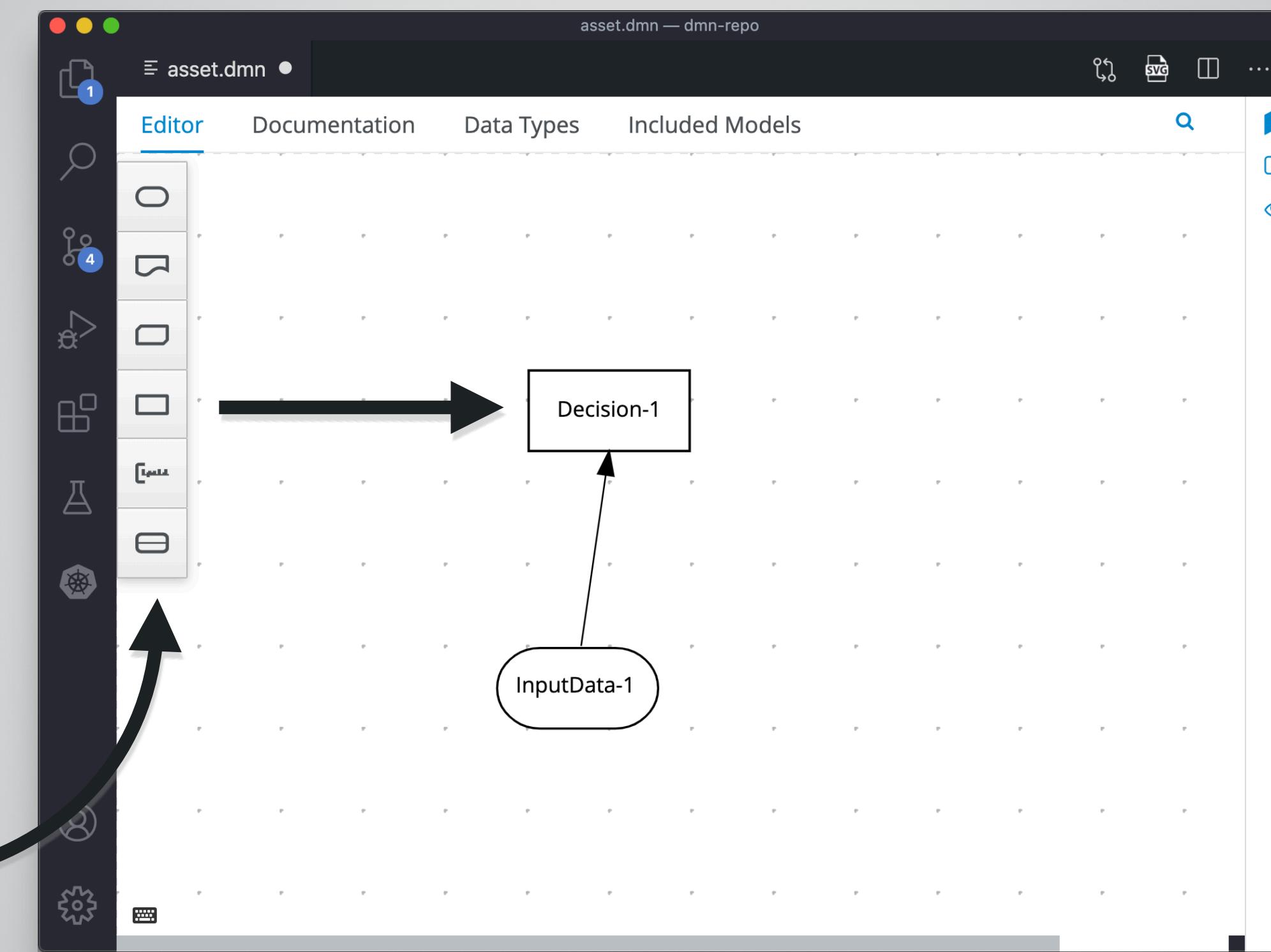
KIE Live #11

October 20th





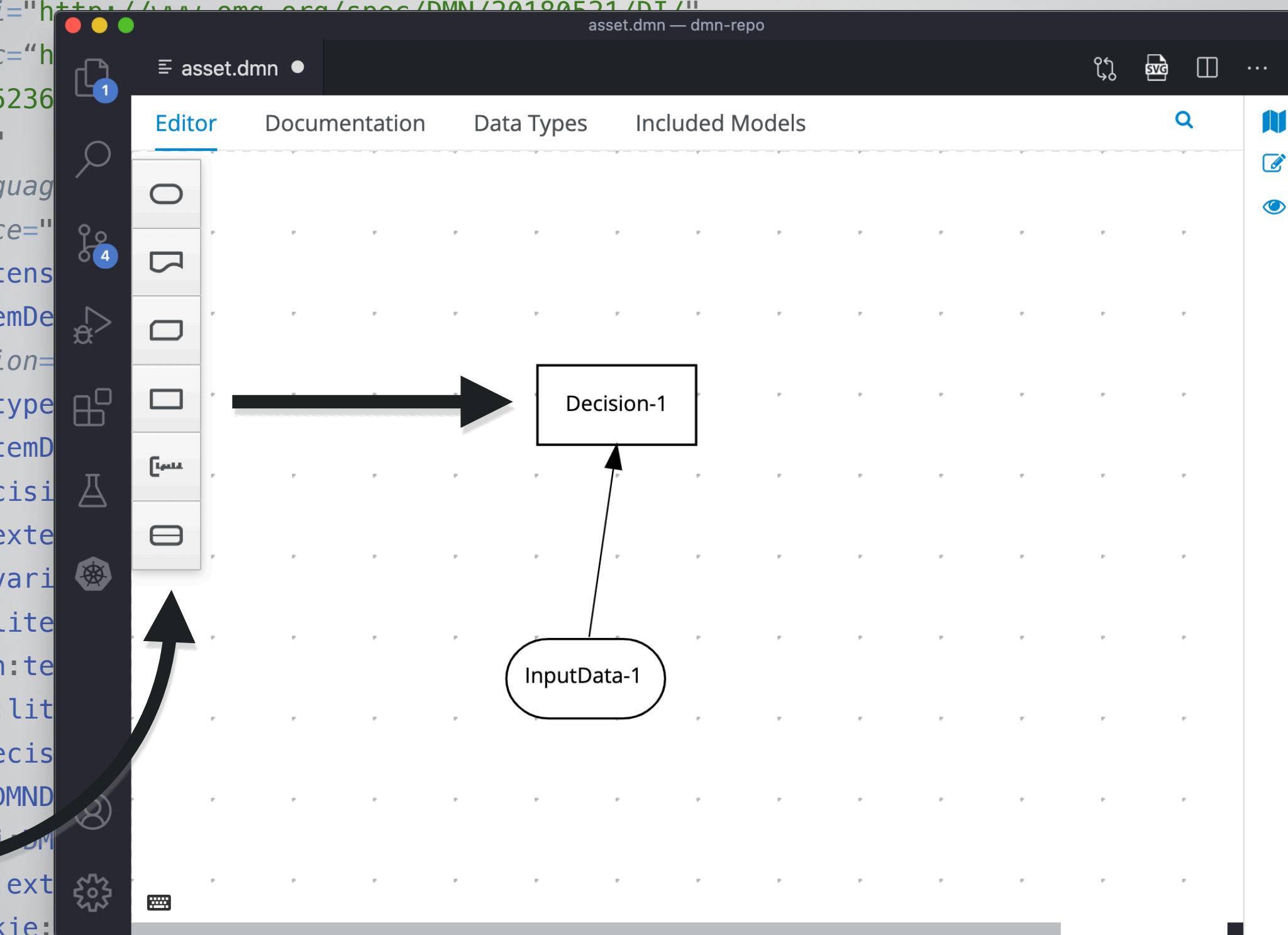
**Everyone**

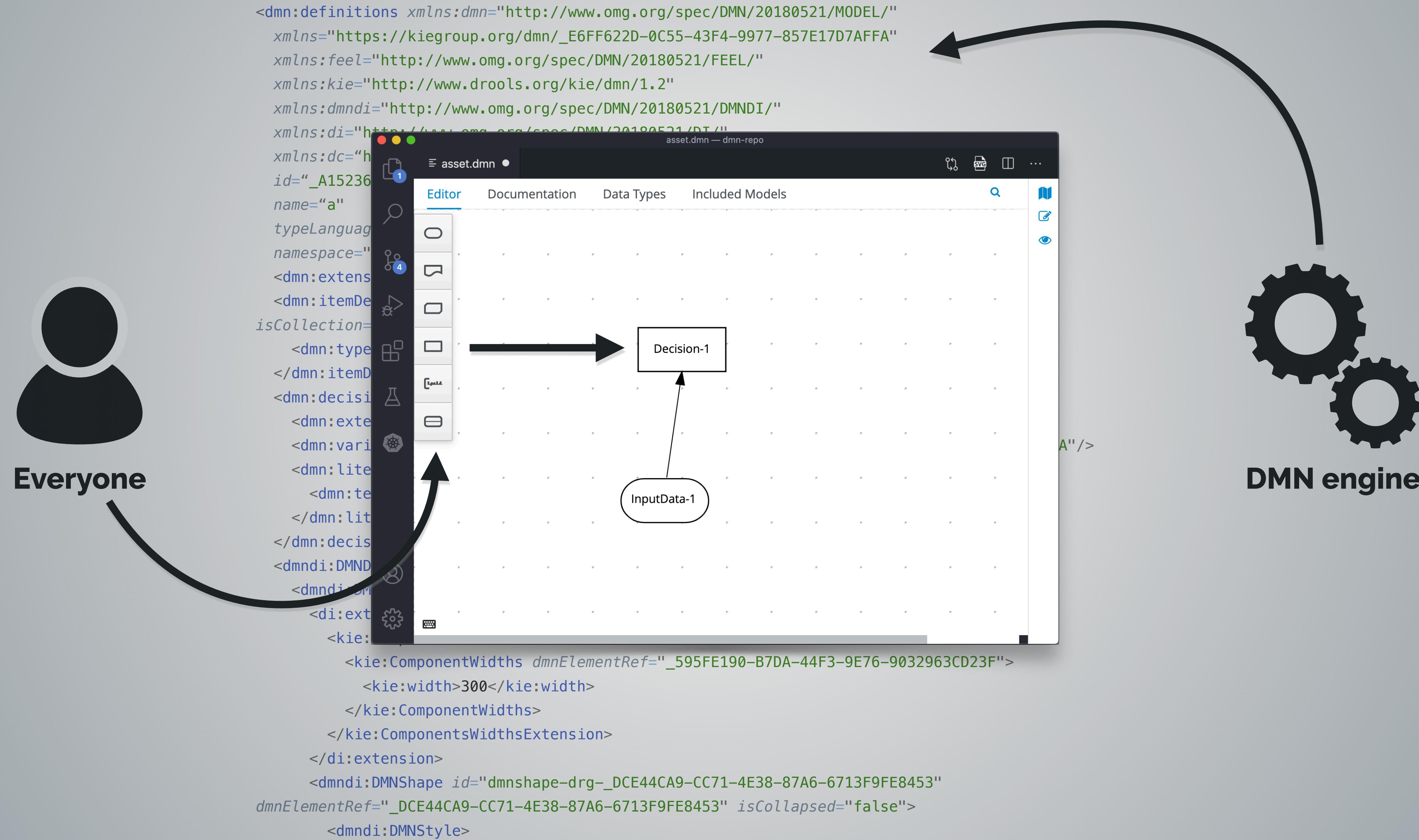


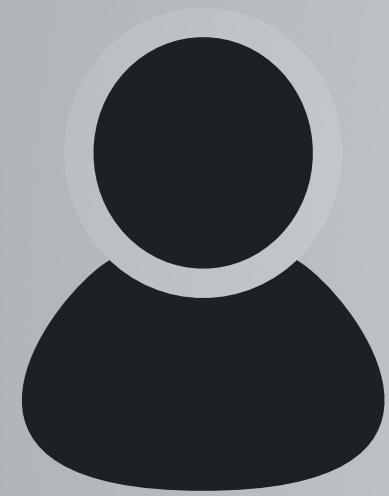


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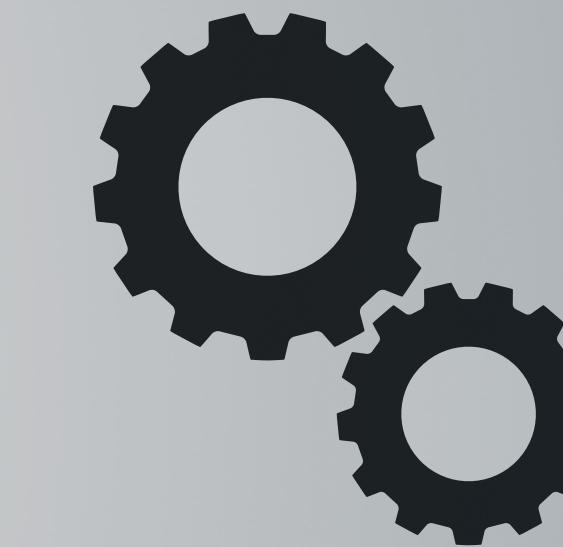
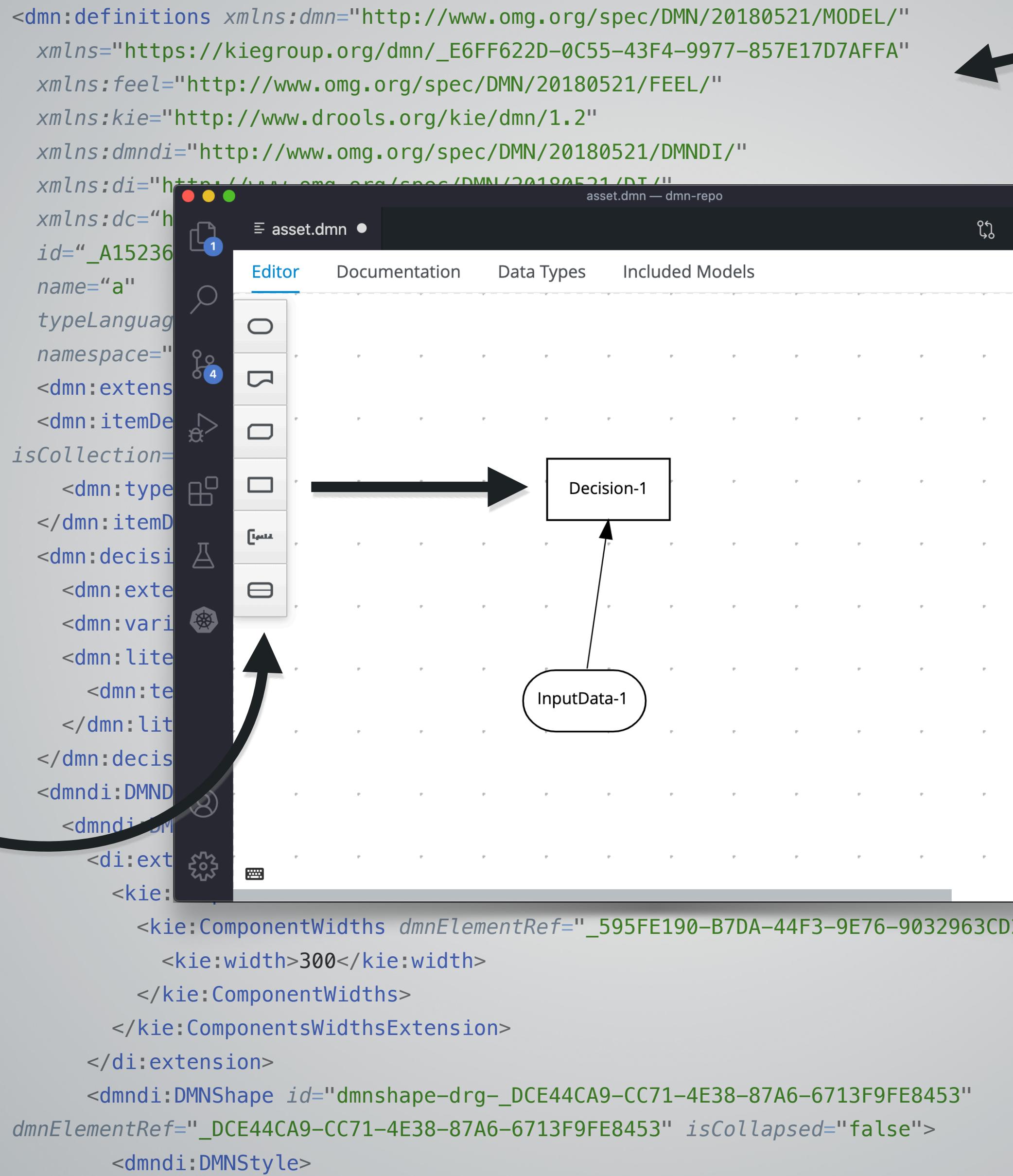
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    xmlns:feel="http://www.omg.org/spec/DMN/20180521/FEEL/"  
    xmlns:kie="http://www.drools.org/kie/dmn/1.2"  
    xmlns:dmndi="http://www.omg.org/spec/DMN/20180521/DMNDI/"  
    xmlns:di="http://www.omg.org/spec/DMN/20180521/DT/"  
    xmlns:dc="http://www.omg.org/spec/DMN/20180521/DC/"  
    id="_A15236" name="a" typeLanguage="https://kiegroup.org/dmn/1.2">  
    <!-- This is a comment -->  
    <dmn:extens...>  
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**Everyone**



**DMN engine**

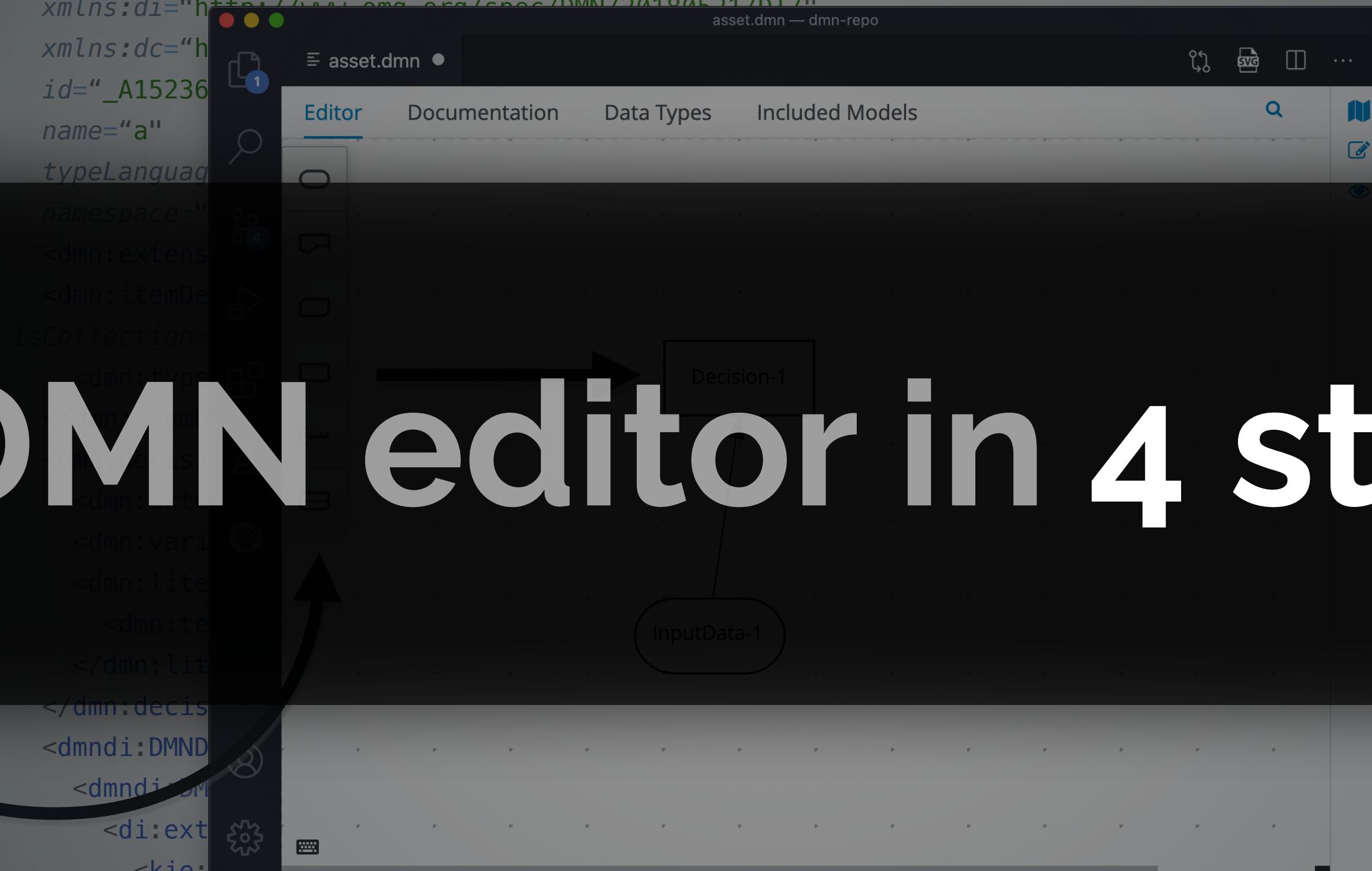


**OBJECT MANAGEMENT GROUP®**

# DMN editor in 4 steps

User

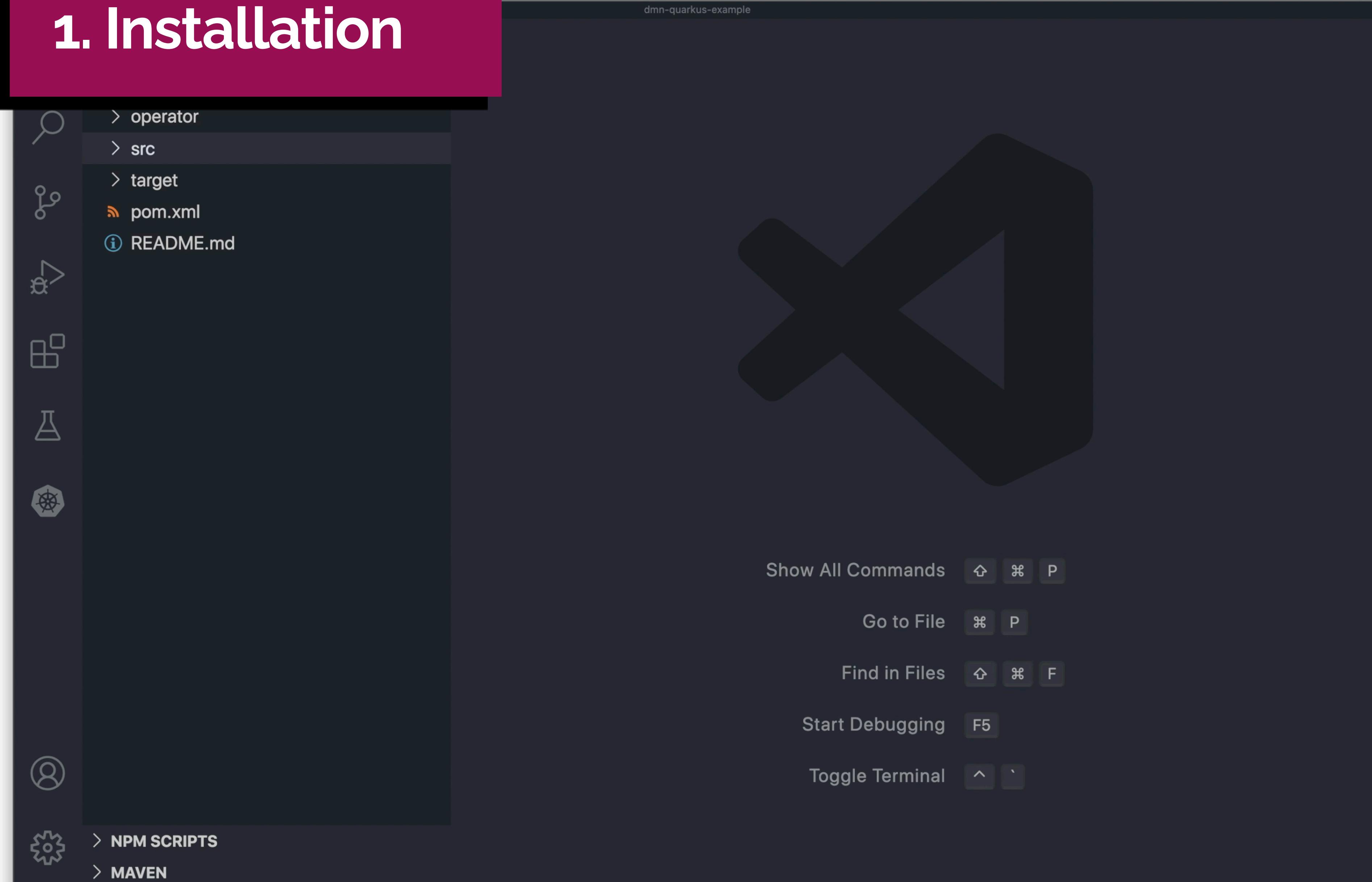
DMN engine



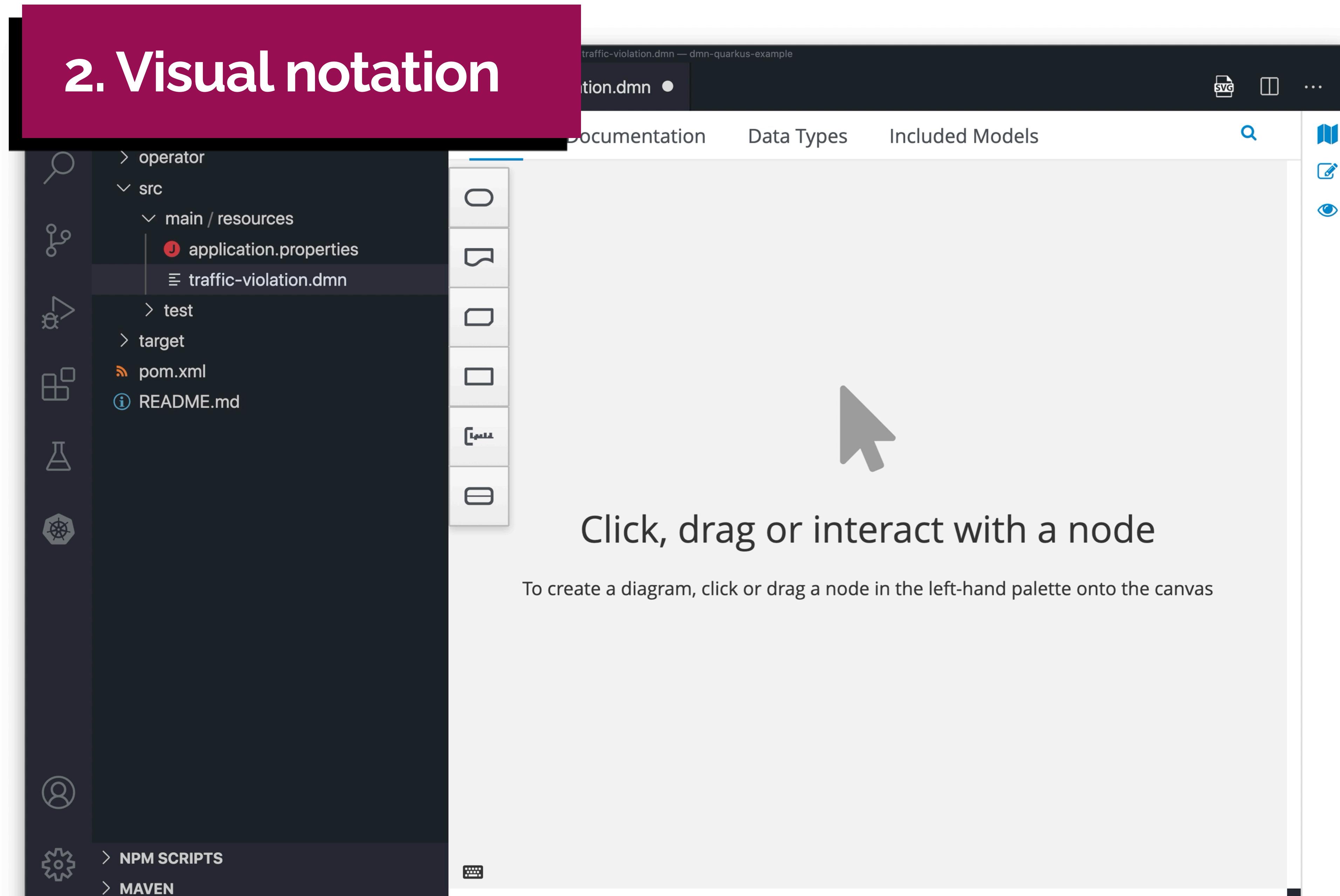
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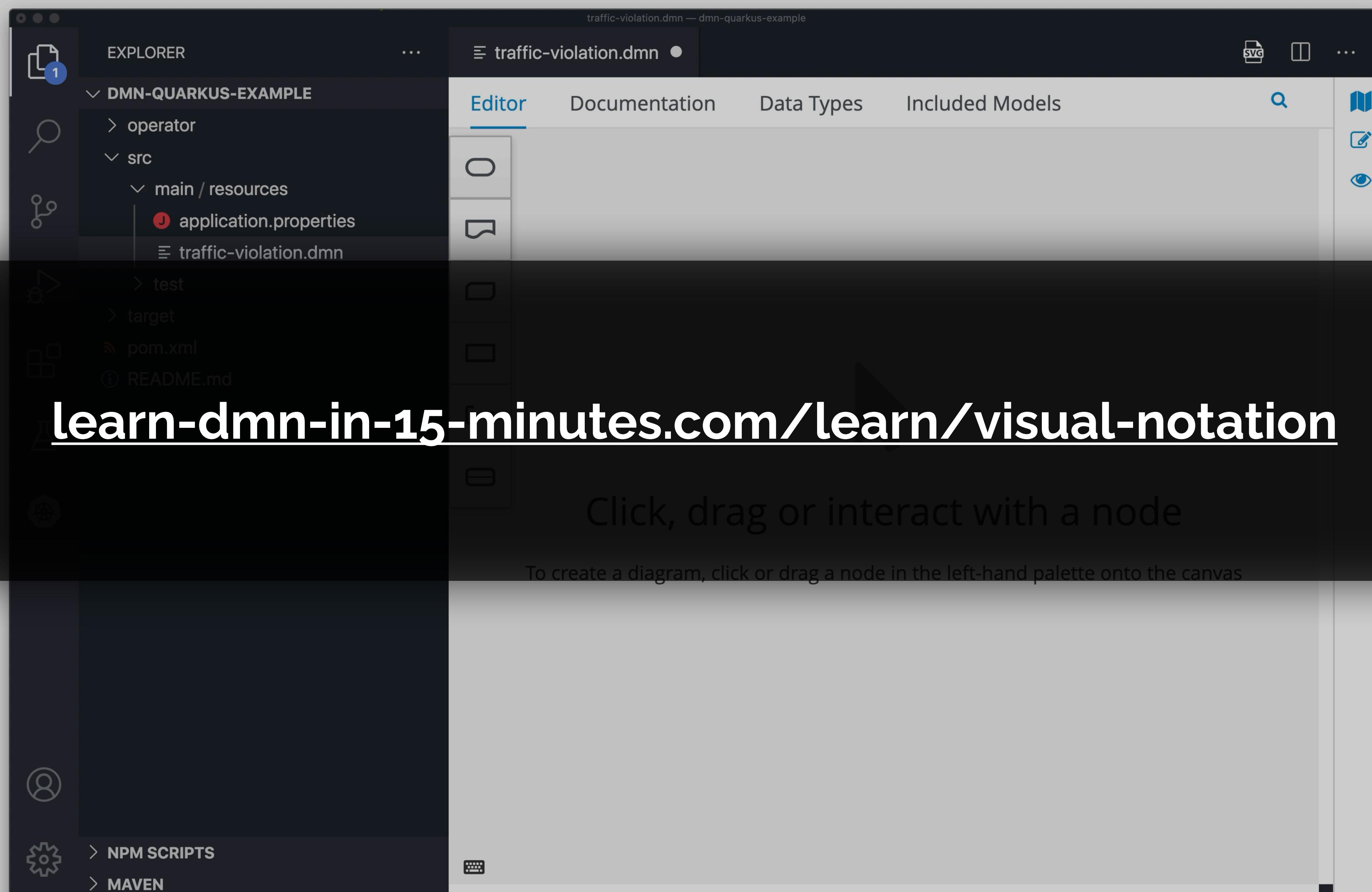
# 1. Installation

1



# 2. Visual notation

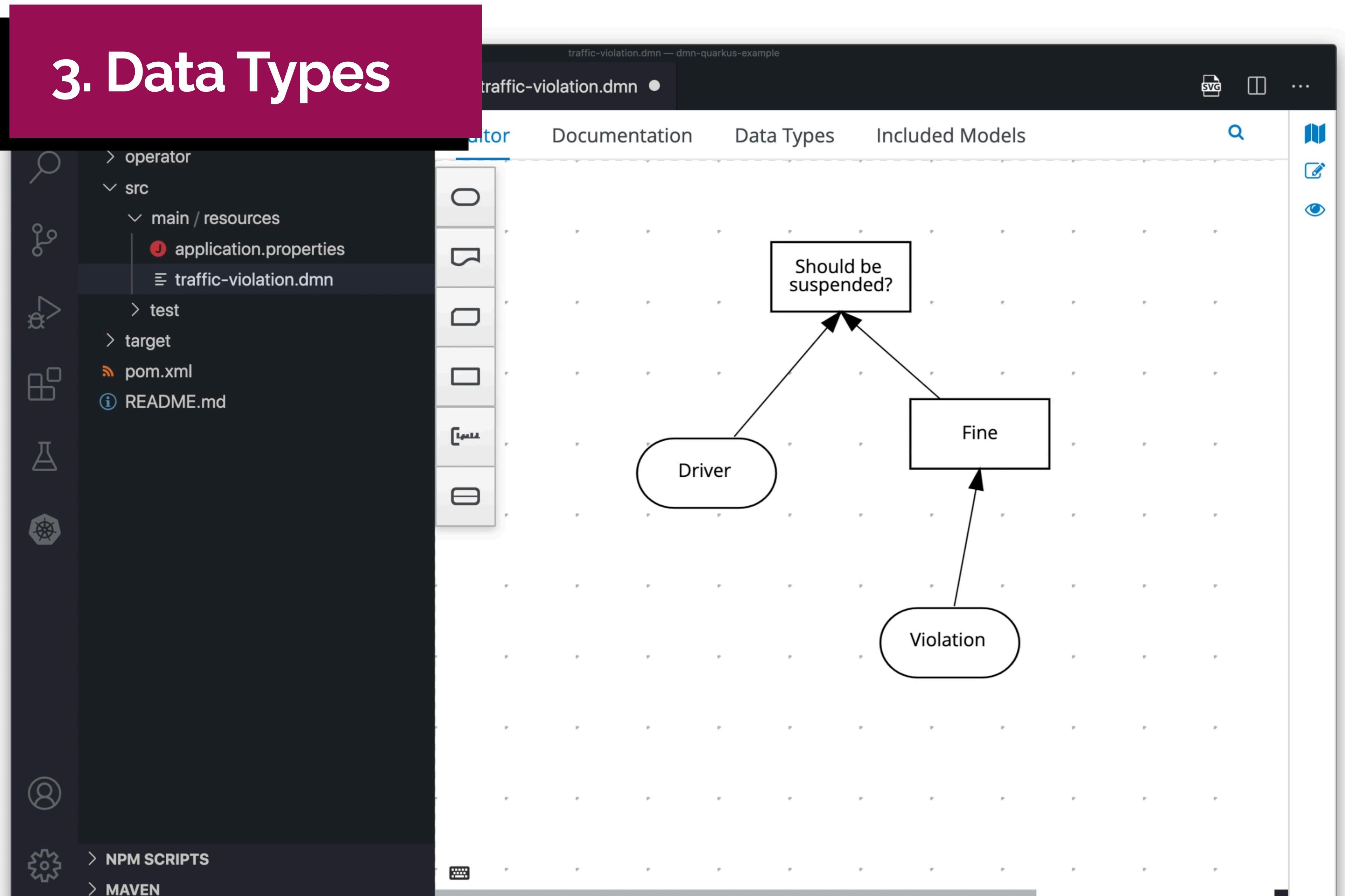




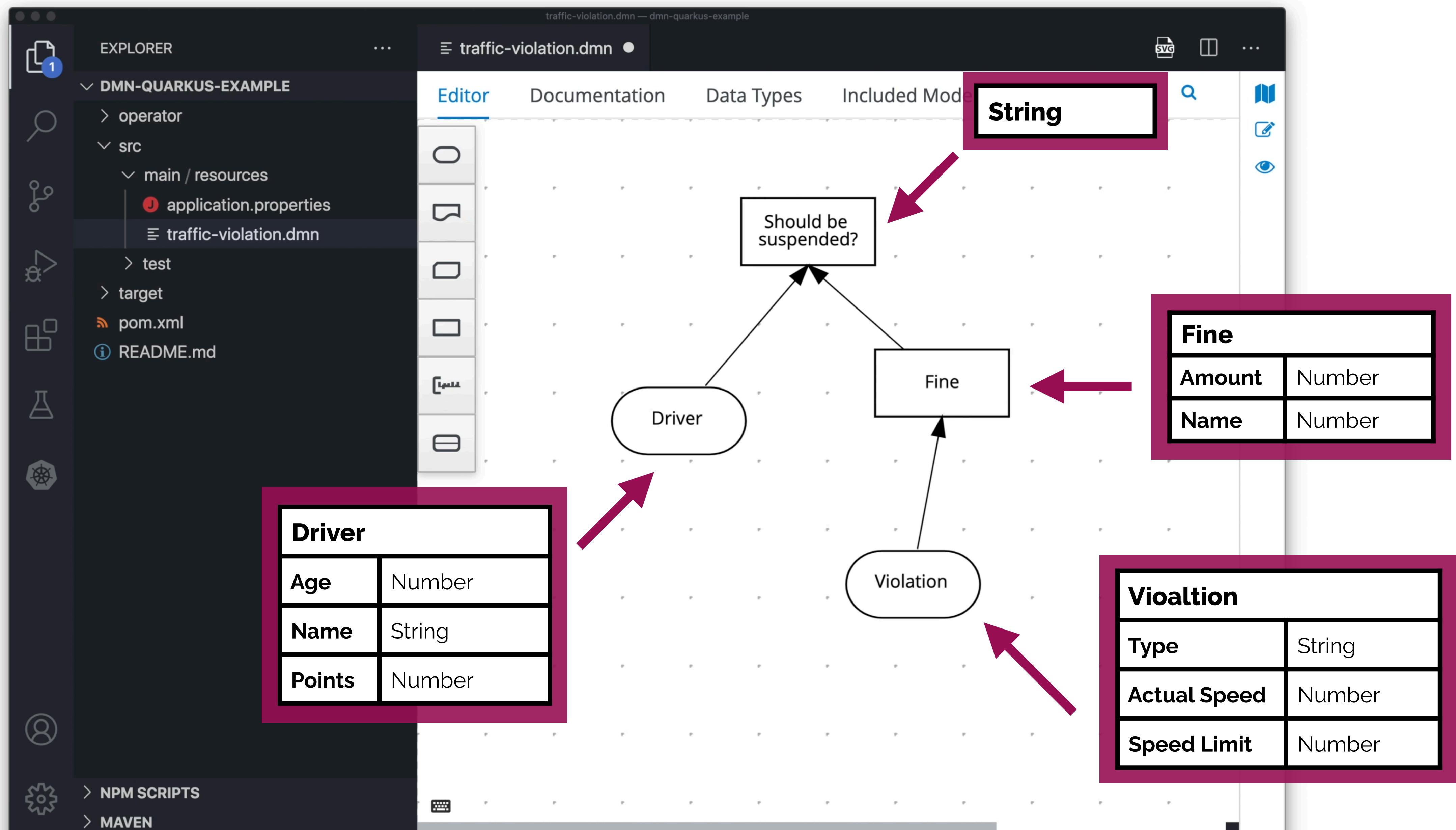
2

# 3. Data Types

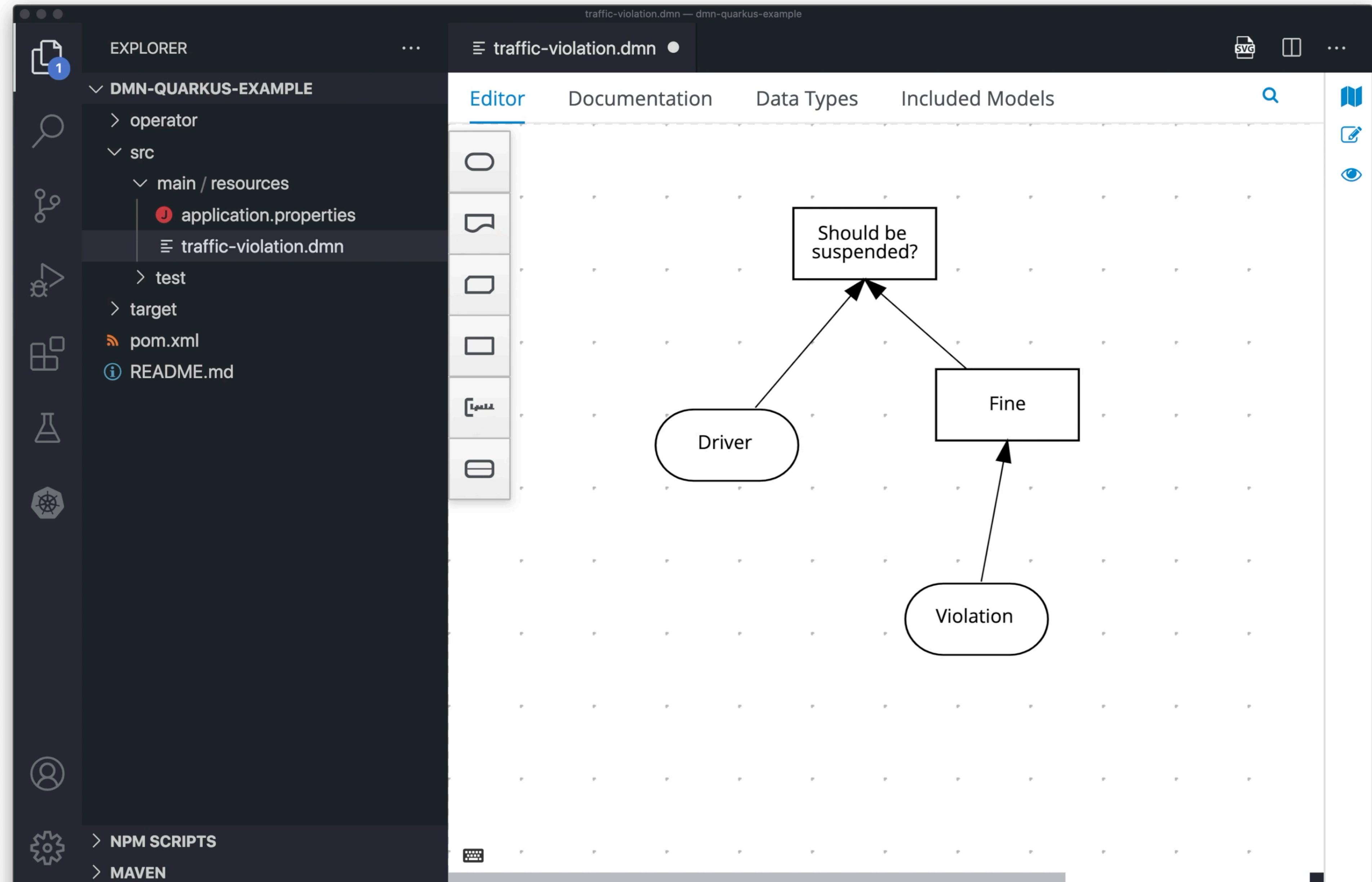
3



# 3



# 3



# 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

traffic-violation.dmn ●

Editor Documentation Data Types Included Models

Custom Data Types

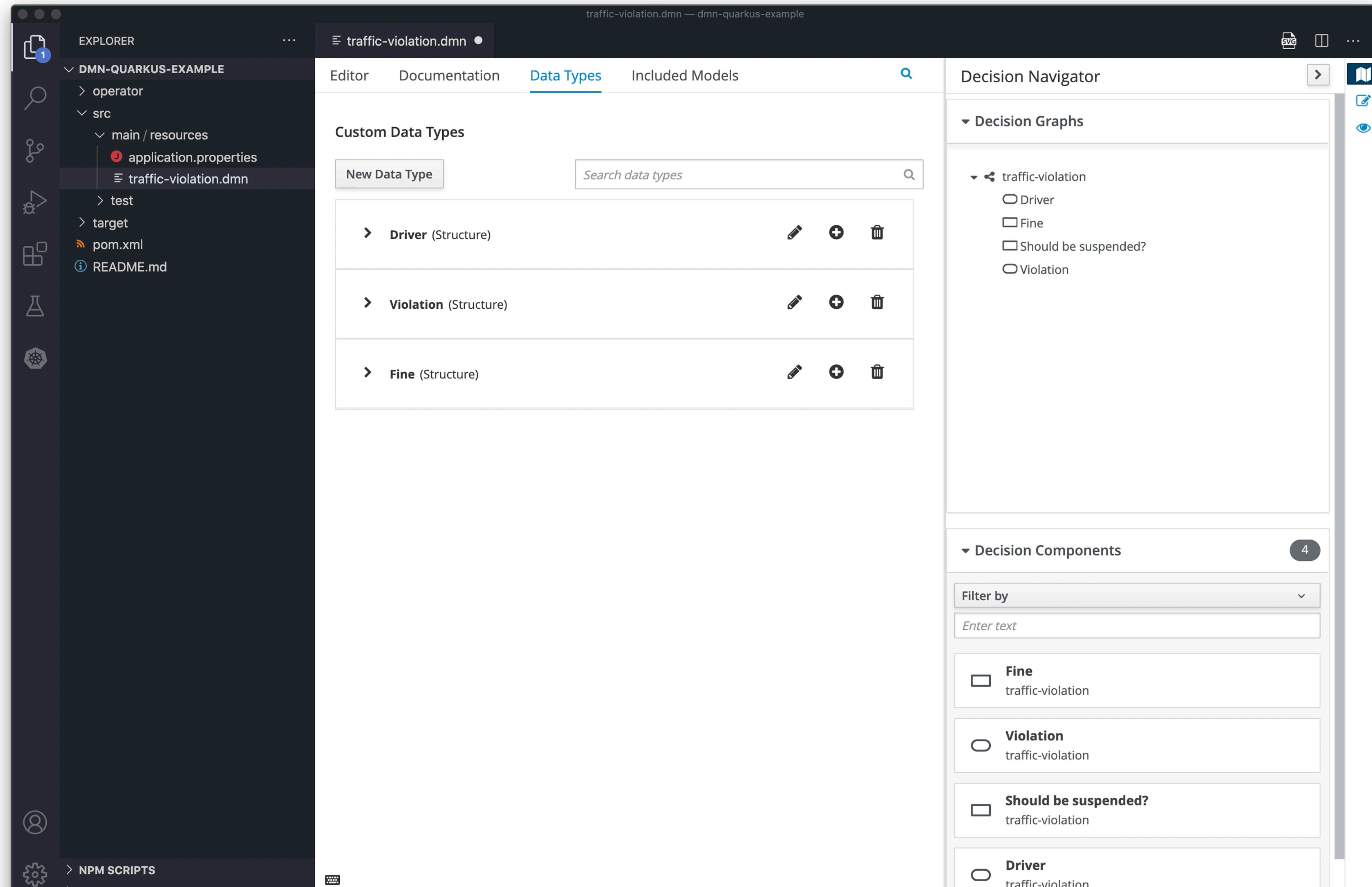
No custom data types have been defined.

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.

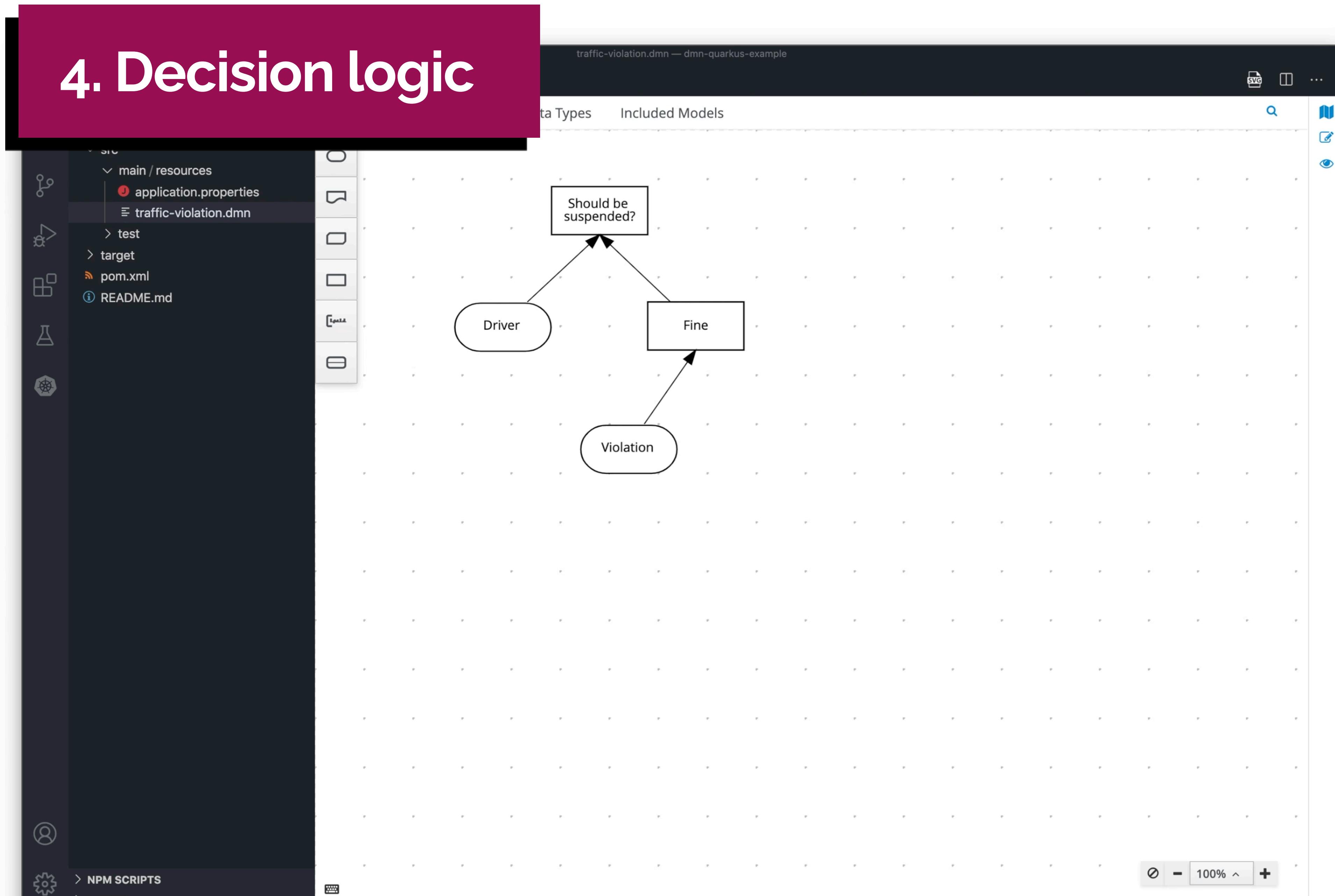
Add a custom Data Type

# 3

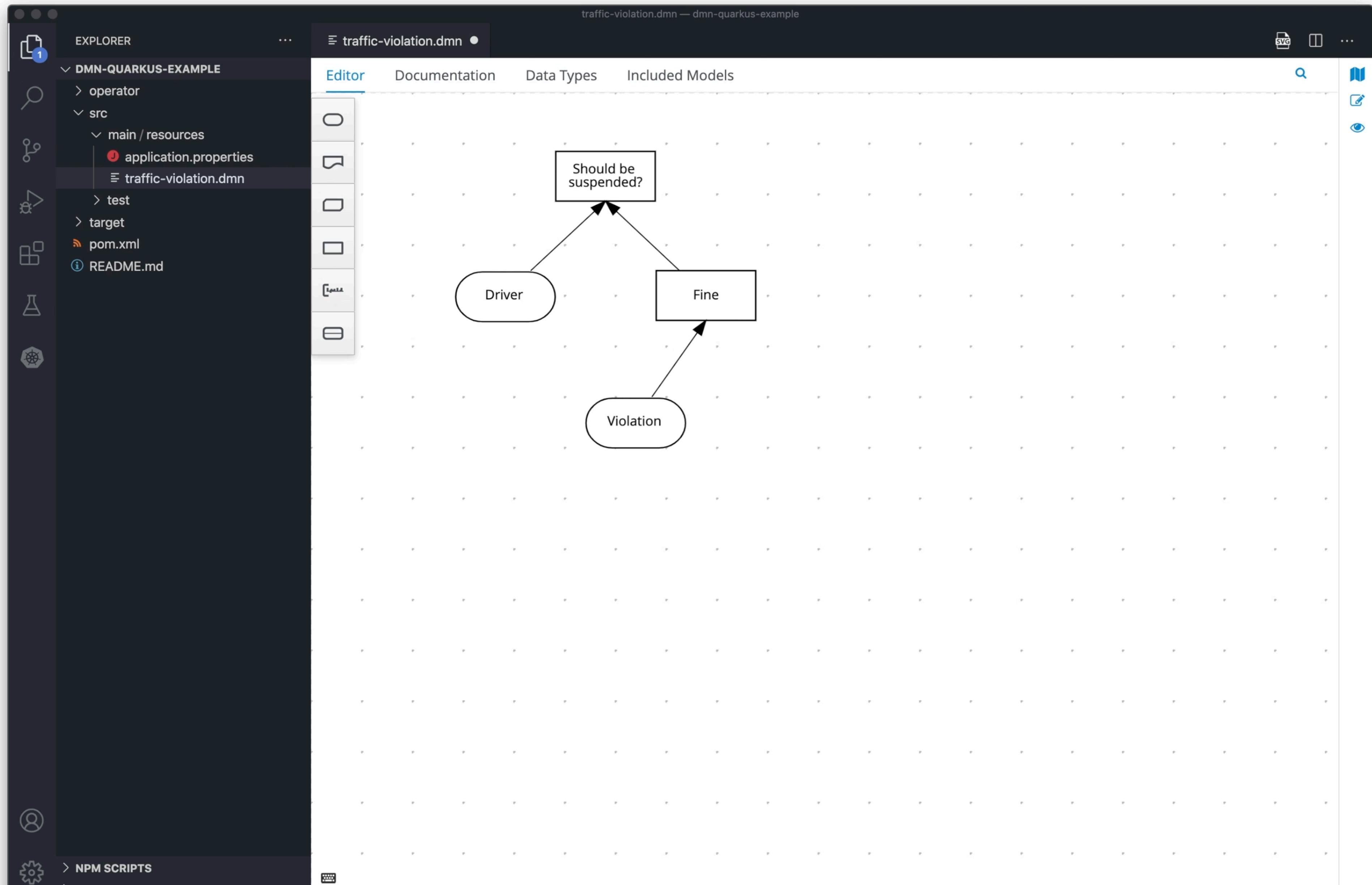


# 4. Decision logic

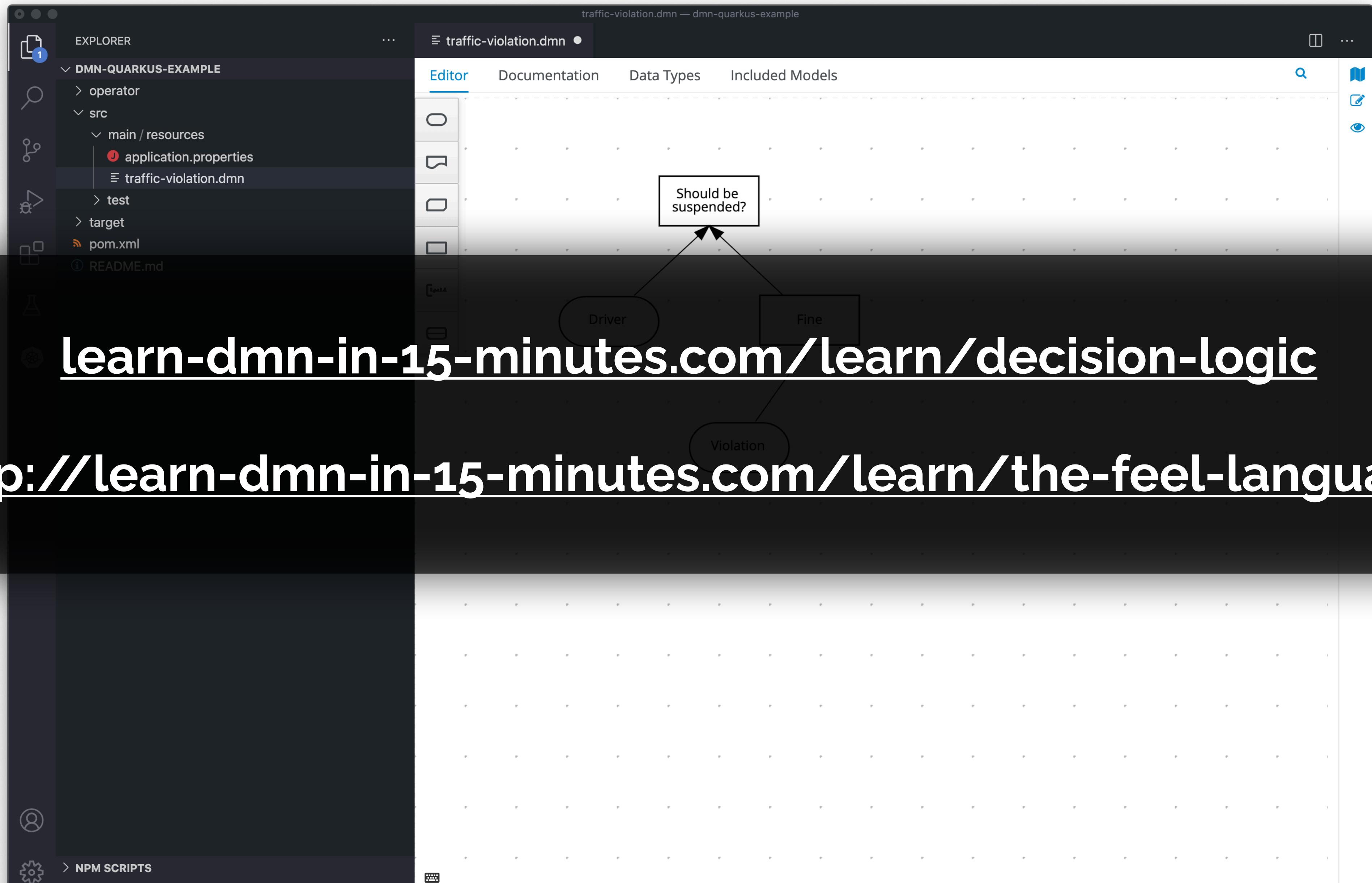
4



# 4



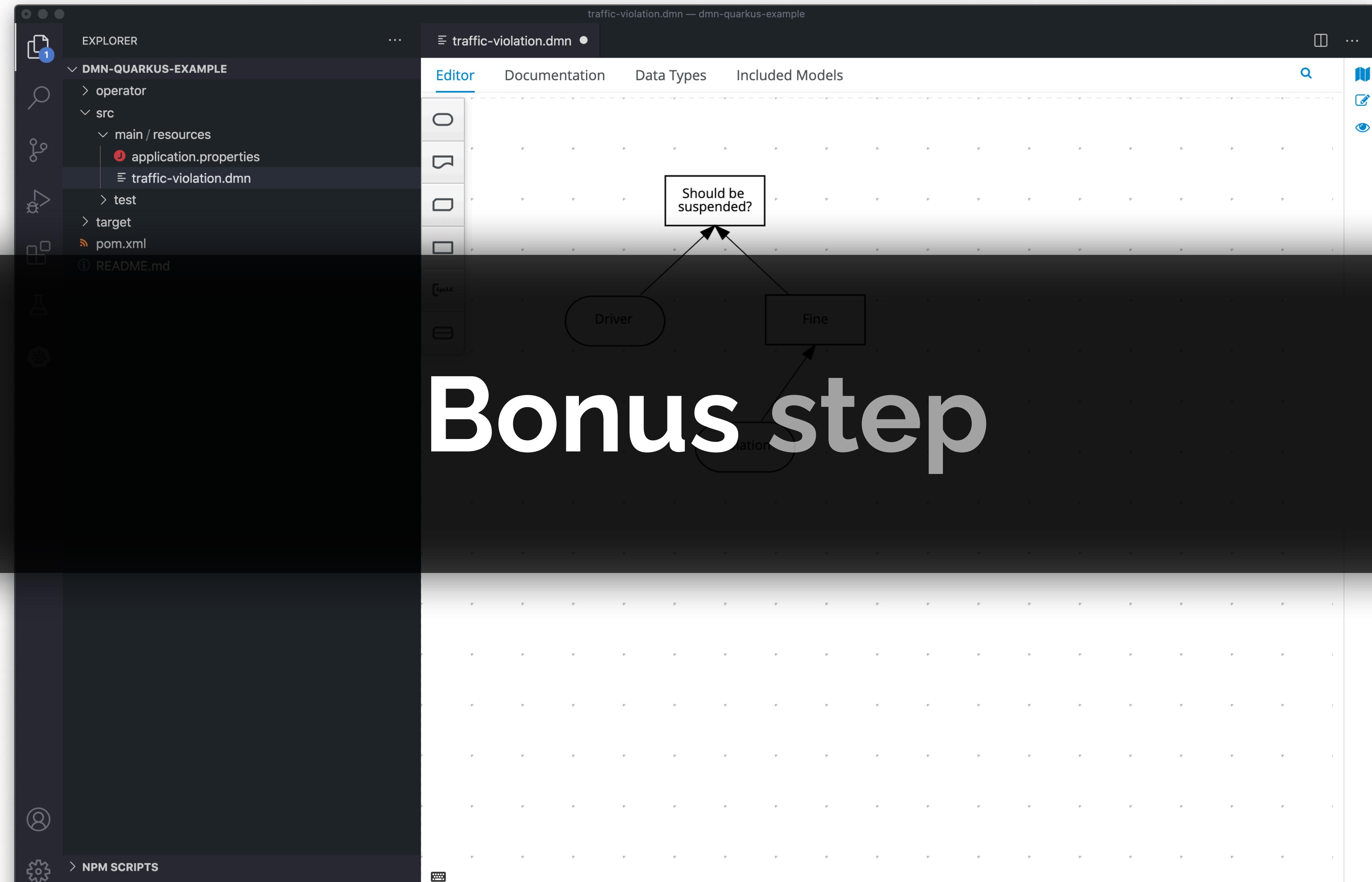
# 4



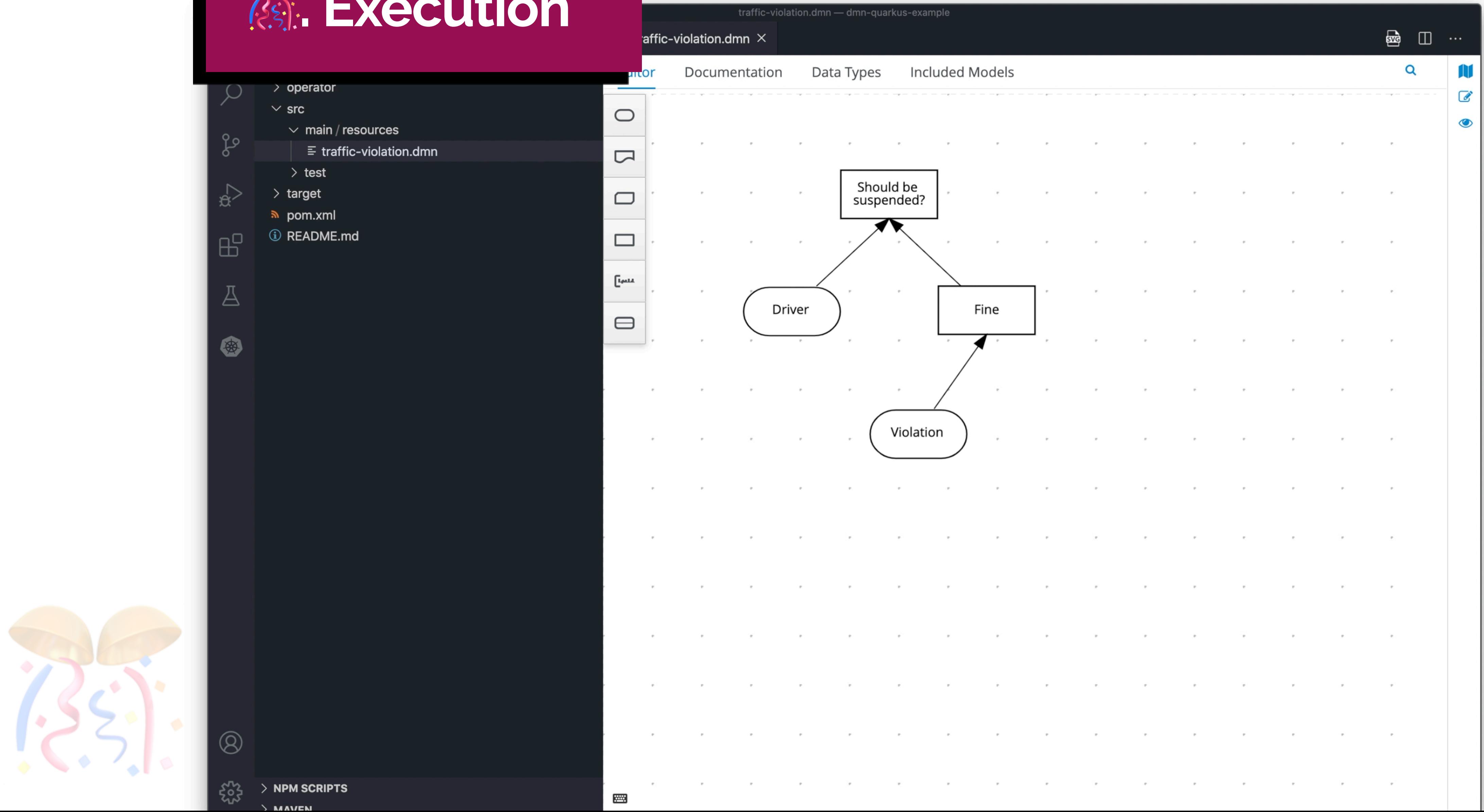
[learn-dmn-in-15-minutes.com/learn/decision-logic](http://learn-dmn-in-15-minutes.com/learn/decision-logic)

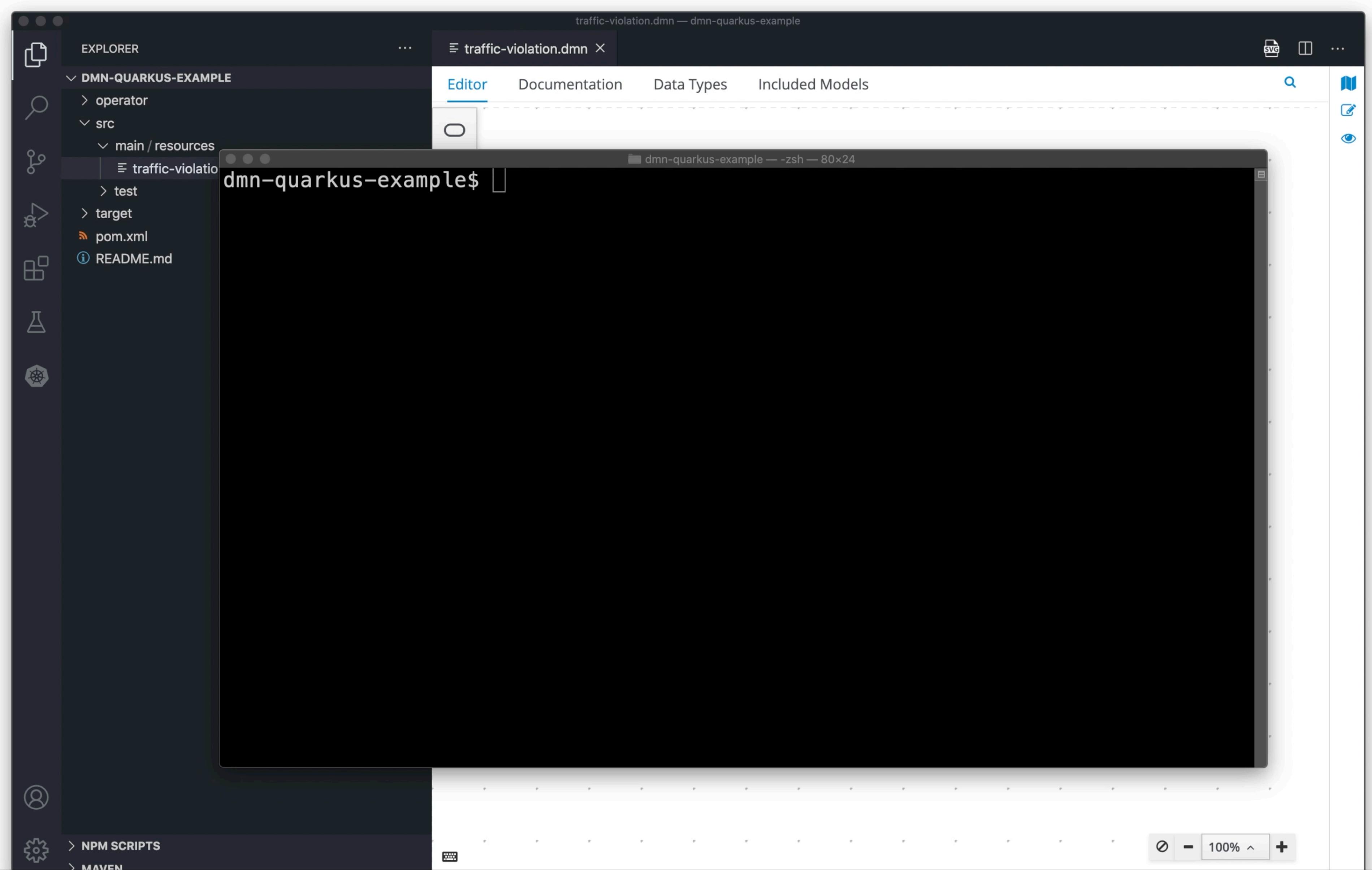
<http://learn-dmn-in-15-minutes.com/learn/the-feel-language>

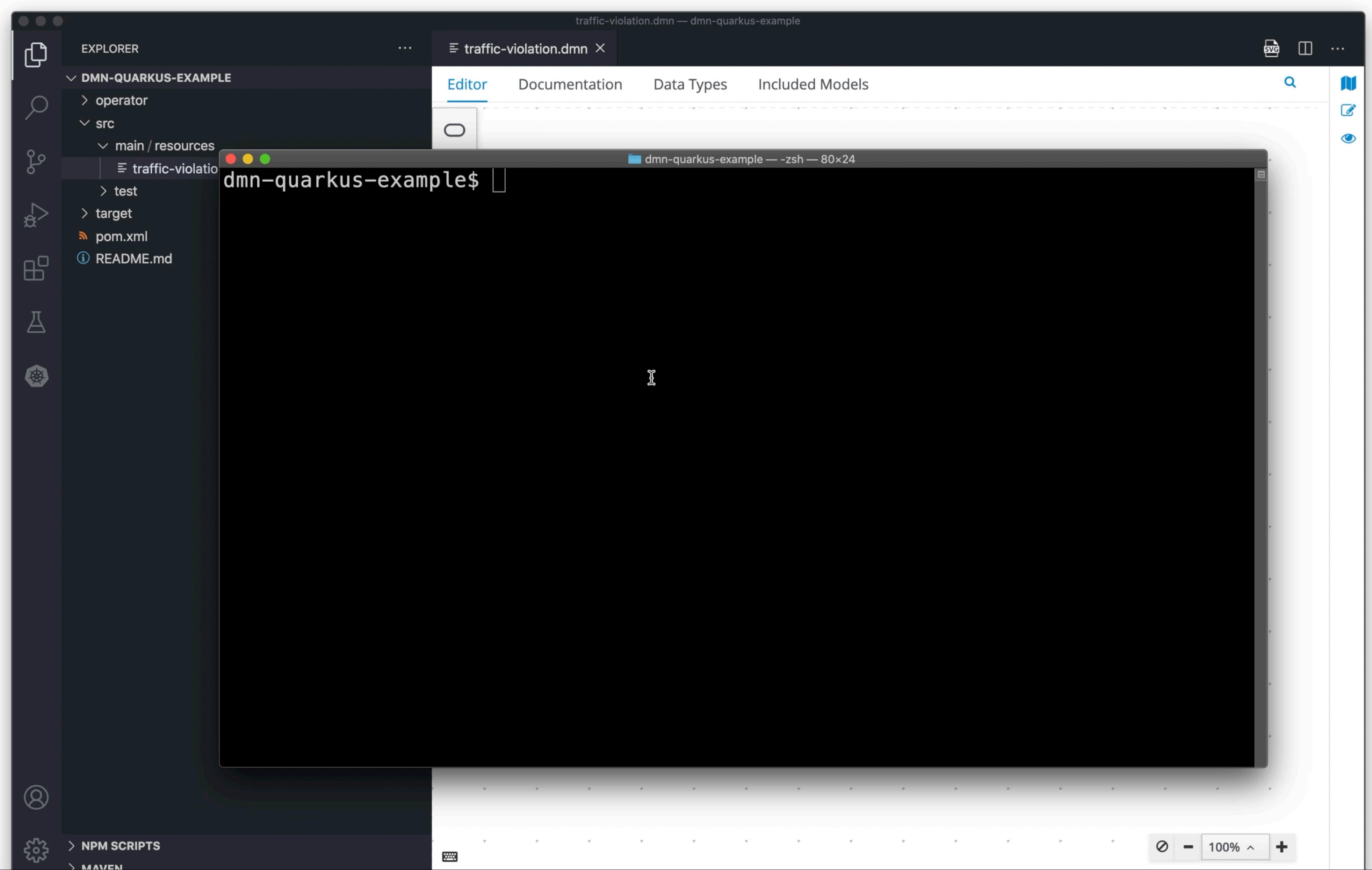


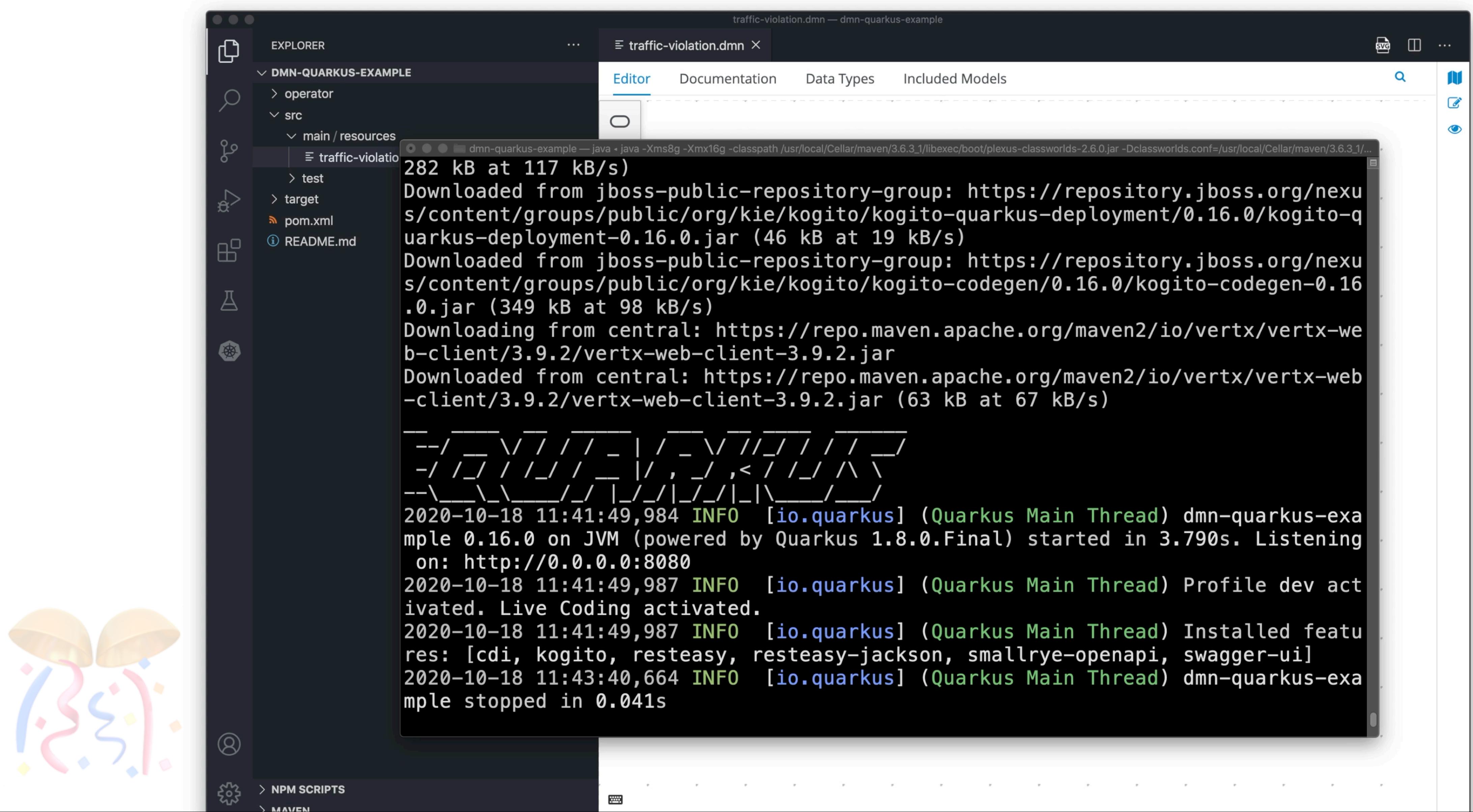


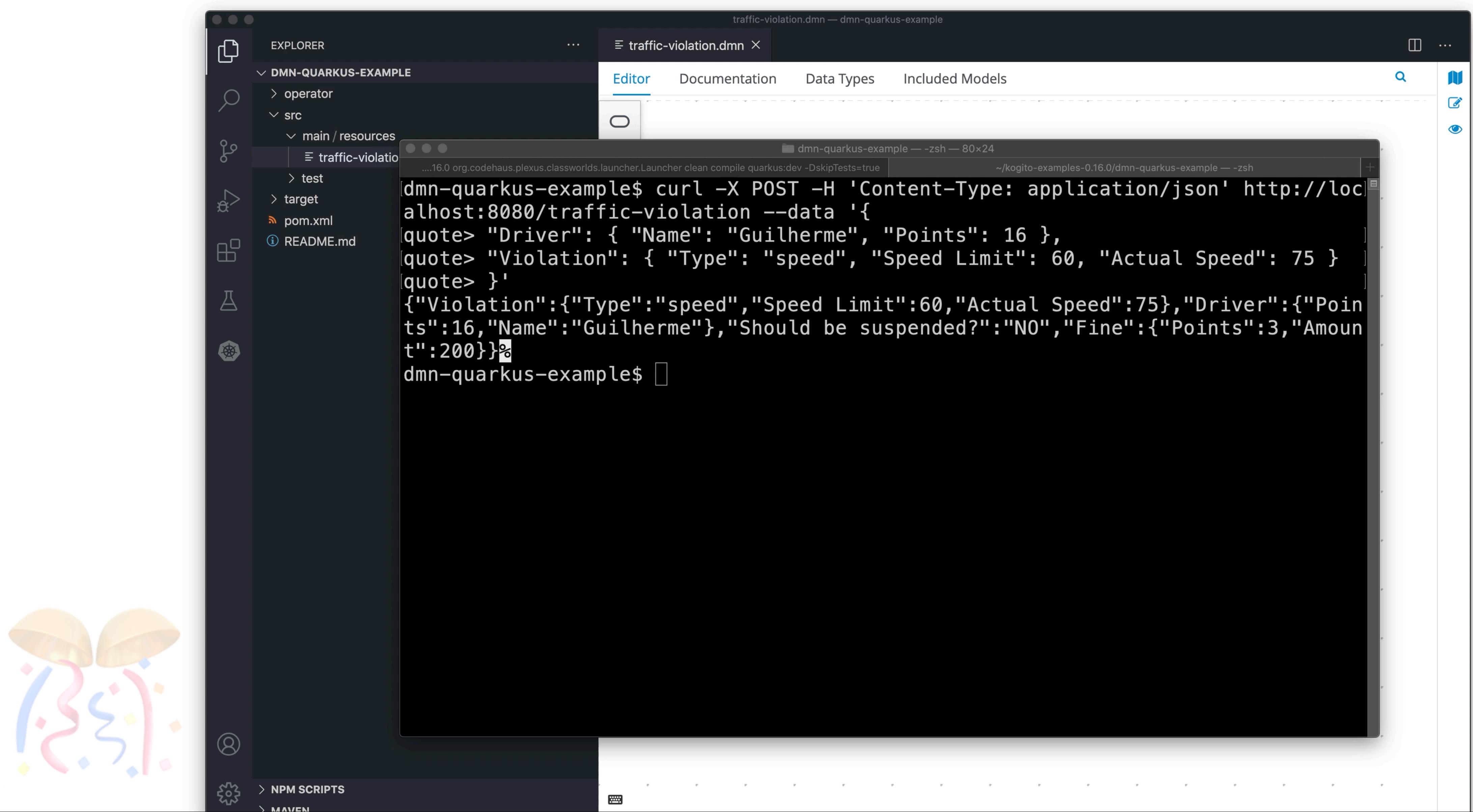
# Execution











```
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)

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    end
  end
end
```

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

The screenshot shows a GitHub repository page for the user 'karreiro' with the repository name 'dmn-on-rails-example'. The page has a dark theme. At the top, there's a navigation bar with links for Pull requests, Issues, Codespaces, Marketplace, and Explore. Below the navigation is a search bar and a header showing the repository path and statistics: 1 branch, 0 tags, 1 commit, and 2 files. The main content area displays a list of files in the 'main' branch, all of which were initialized ('Init') 11 minutes ago. The files listed are app, bin, config, db, lib, log, public, storage, test, tmp, vendor, .browserslistrc, .gitignore, and .gitattributes. To the right of the code listing, there are sections for About, Releases, and Packages, each with a 'No [content]' message and a 'Create a new [content]' link.

**About**

No description, website, or topics provided.

**Readme**

**Releases**

No releases published

[Create a new release](#)

**Packages**

No packages published

[Publish your first package](#)

Code

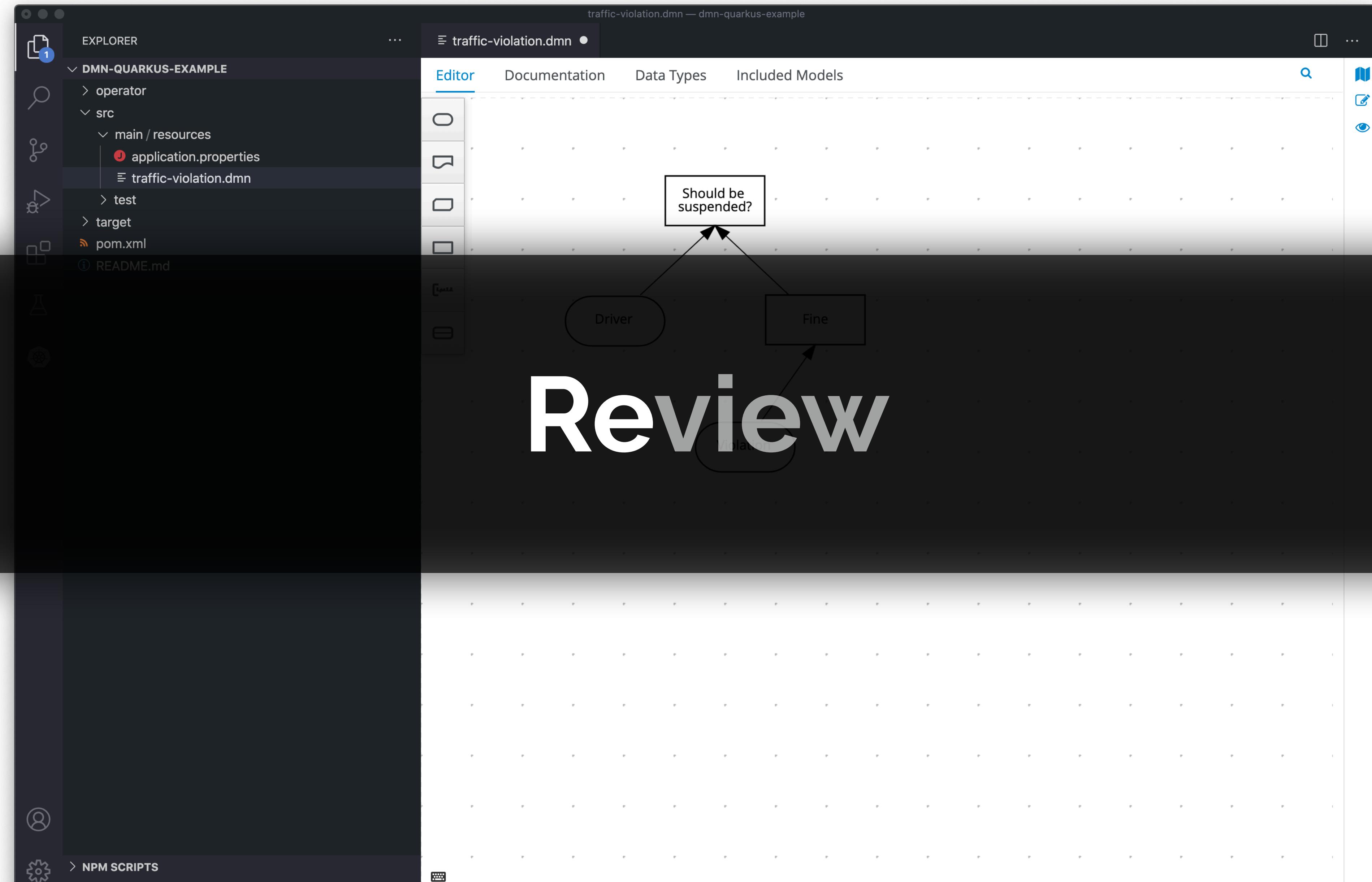
karreiro / dmn-on-rails-example

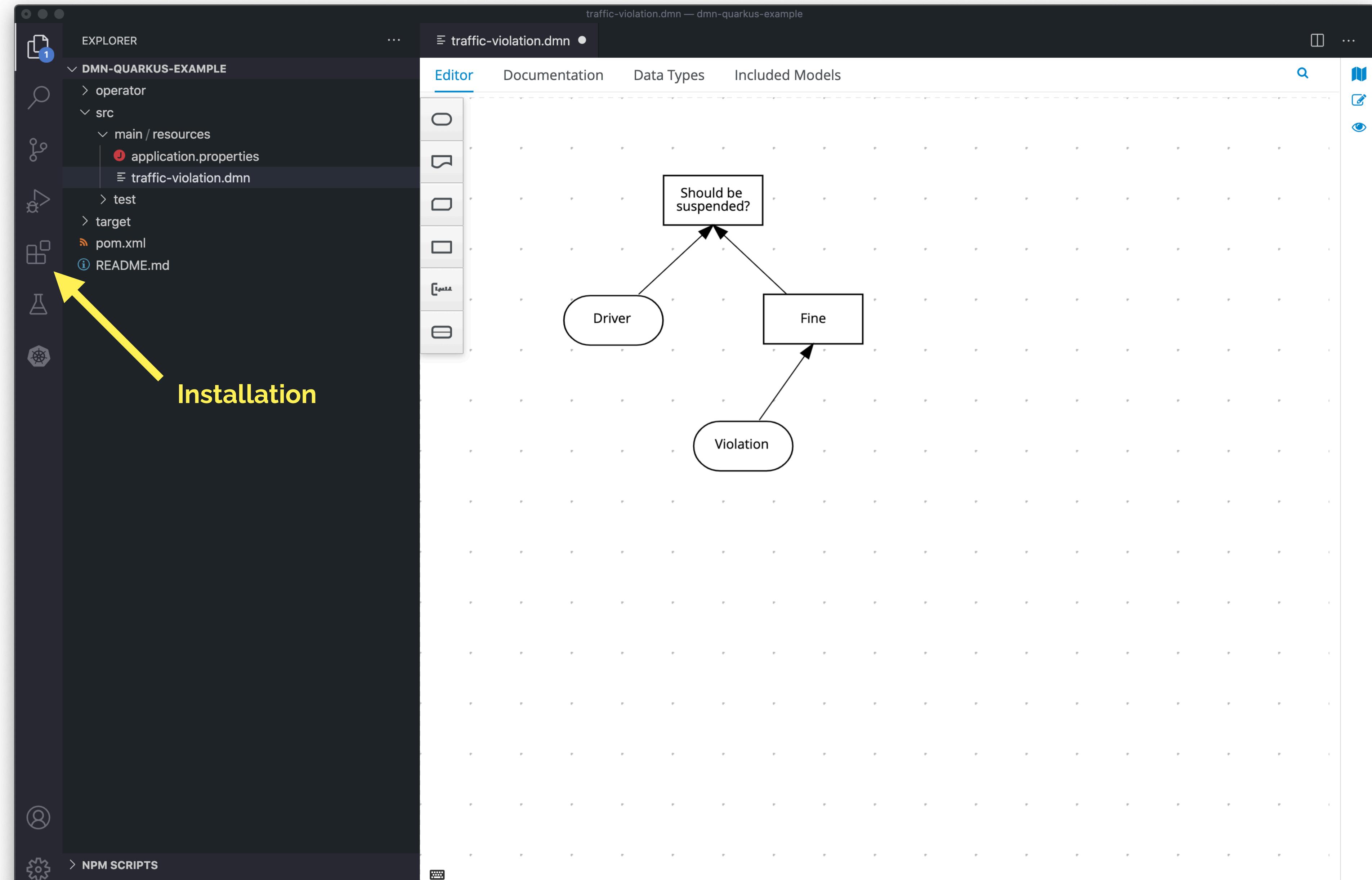
Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

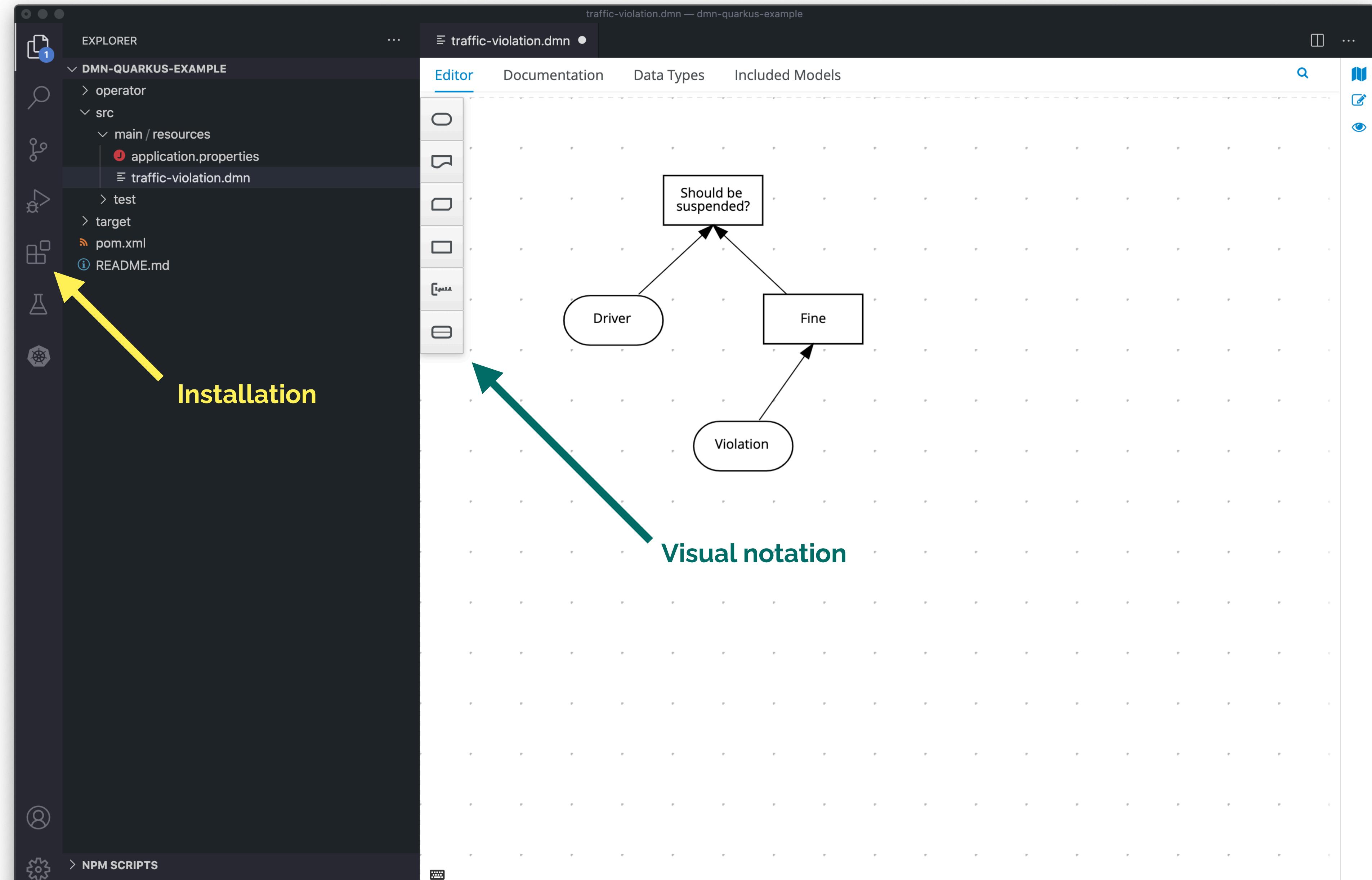
karreiro Update README.md 8ea05d4 25 seconds ago 2 commits

File	Commit Message	Time Ago
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
.gitattributes	Init	11 minutes ago



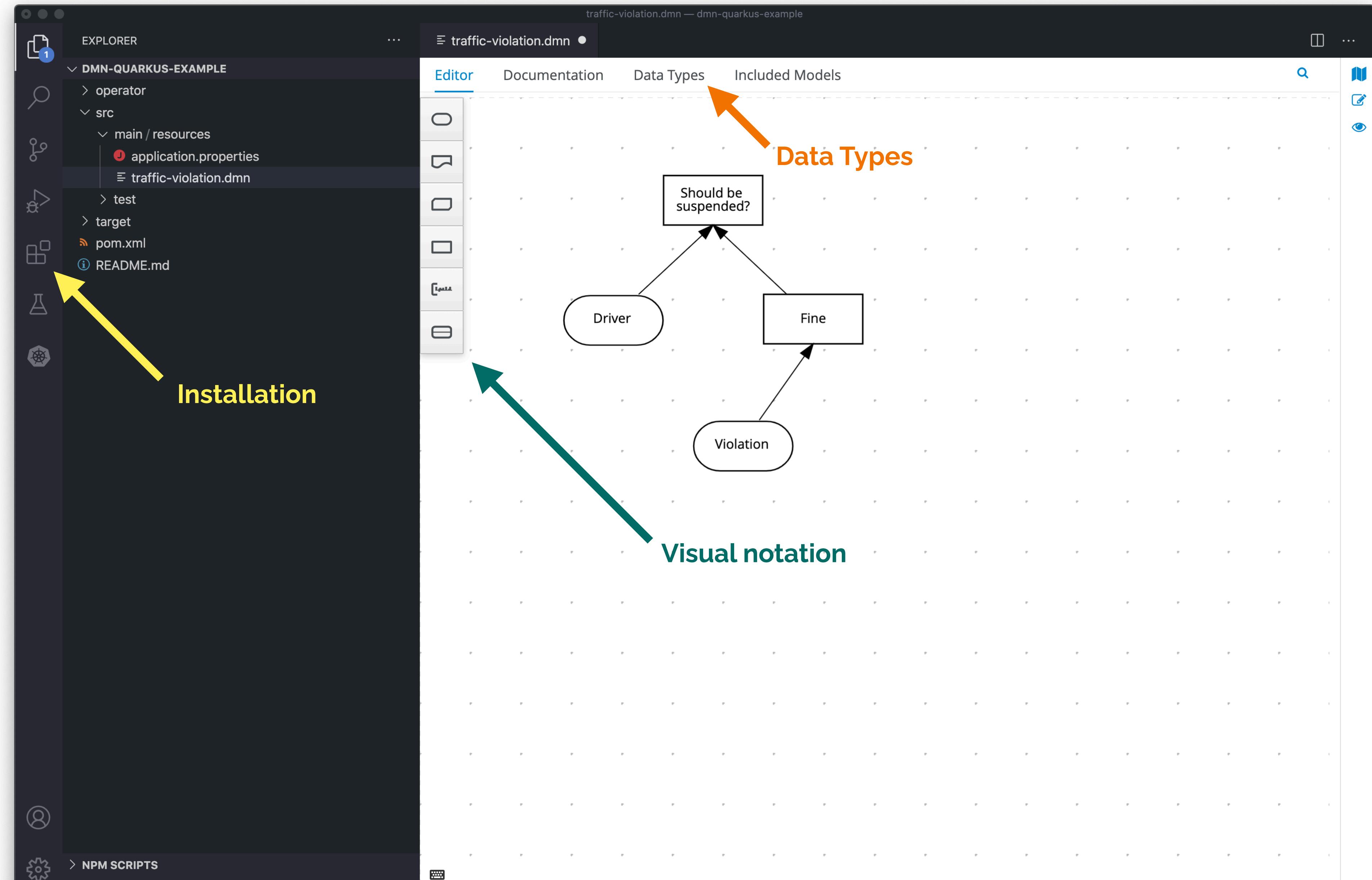


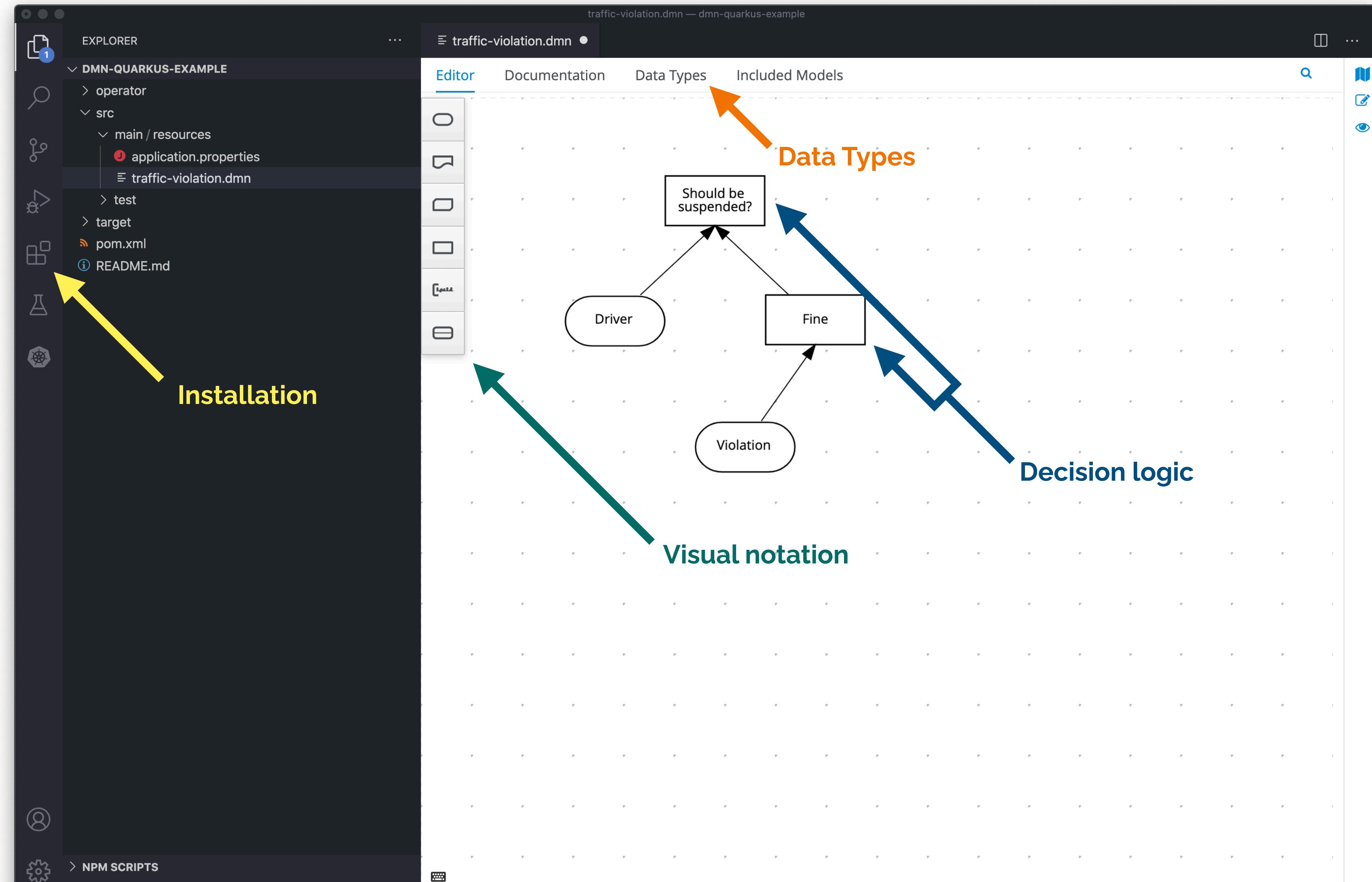
Installation

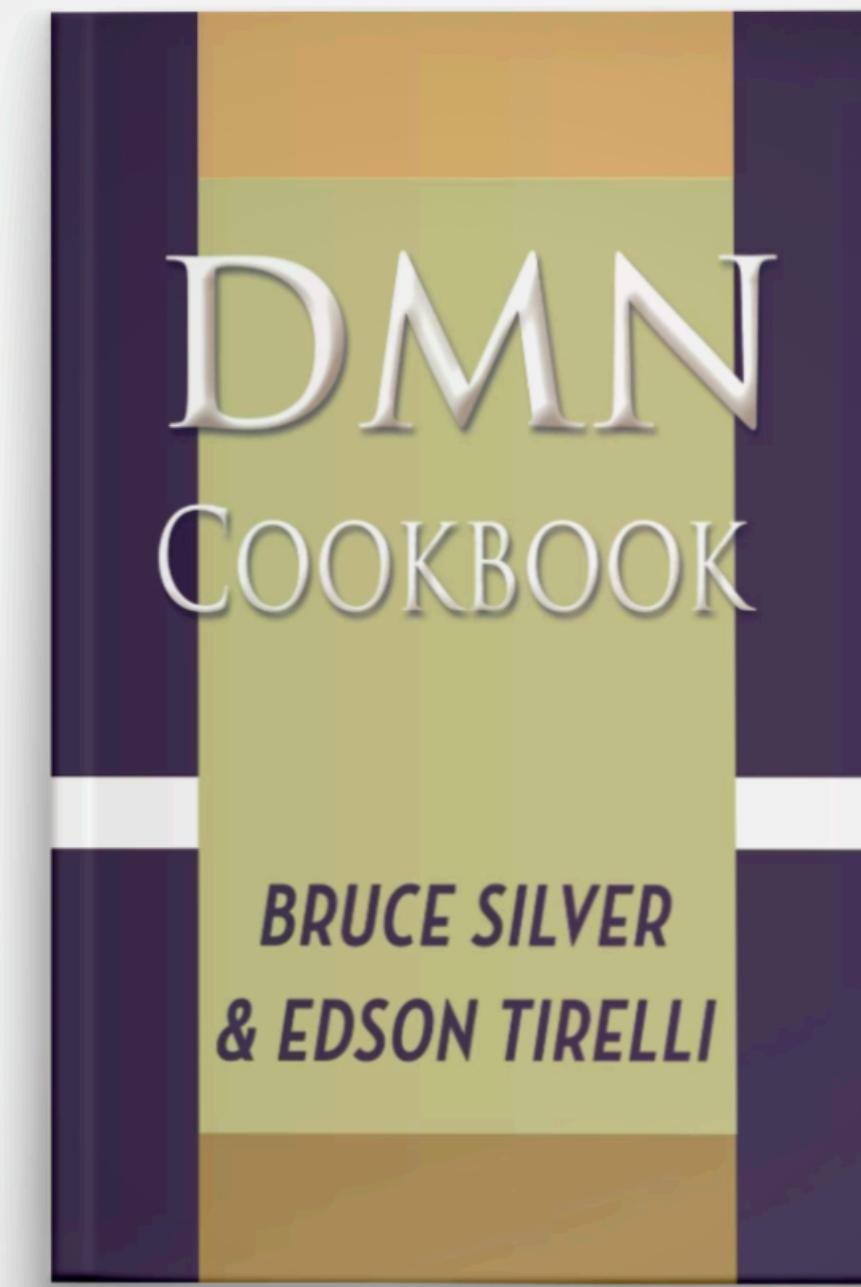


Installation

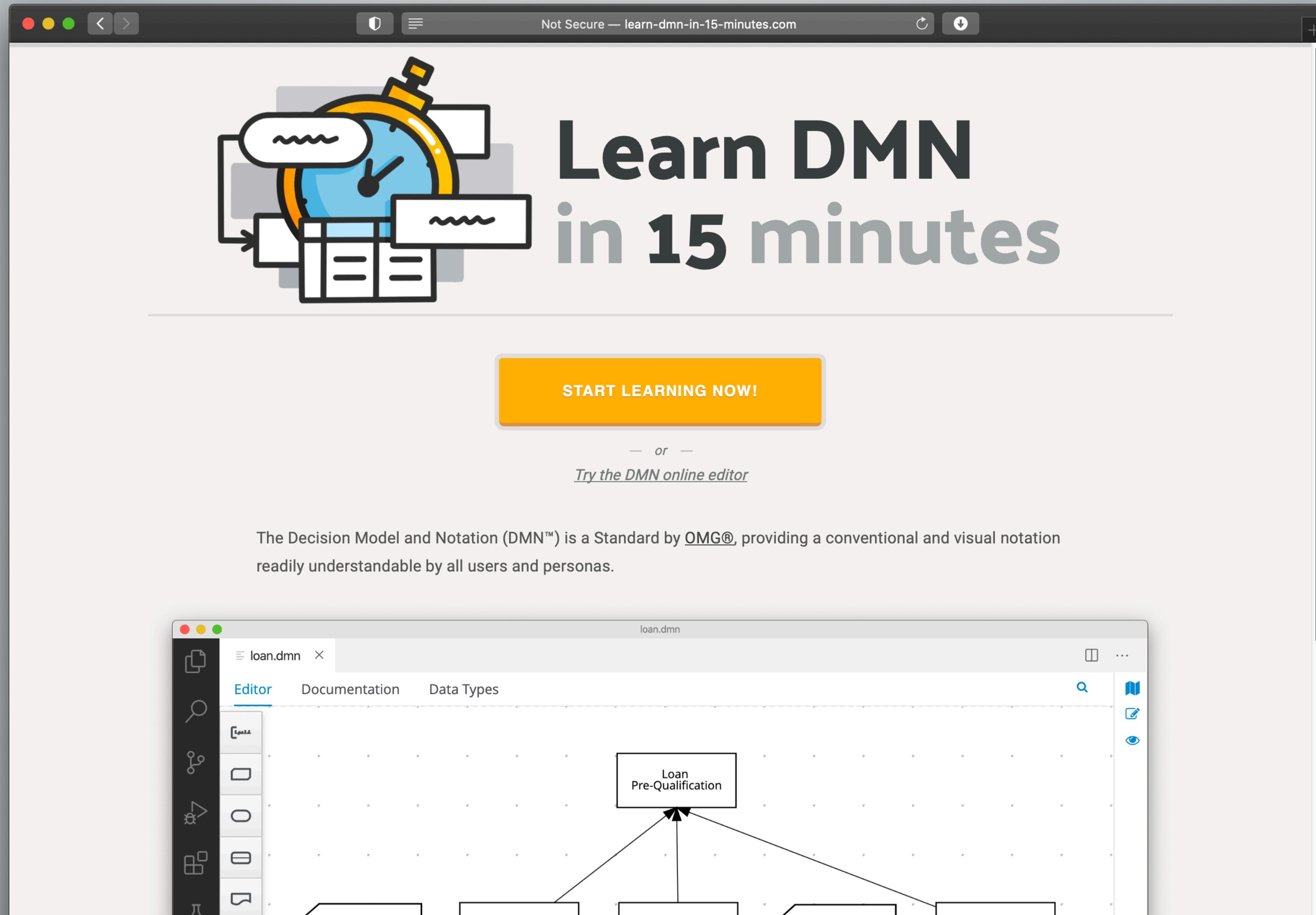
Visual notation







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



# Thank you!

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

