

Agenda



- Why Bother?
- Elements
- Element Properties
- Rules
- Q & A

(If interest):

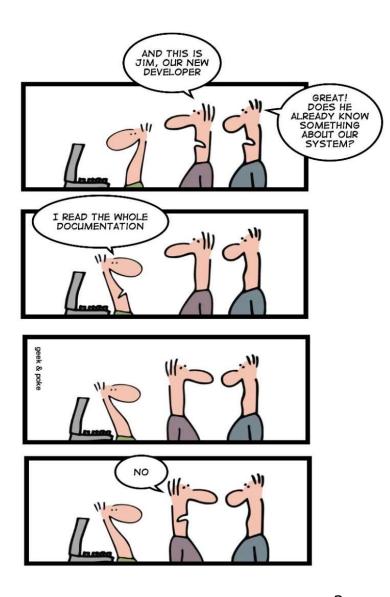
- Known Limitations
- Future Work



Why Bother?

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- Diagrams as communication tool
- Understandable to most readers







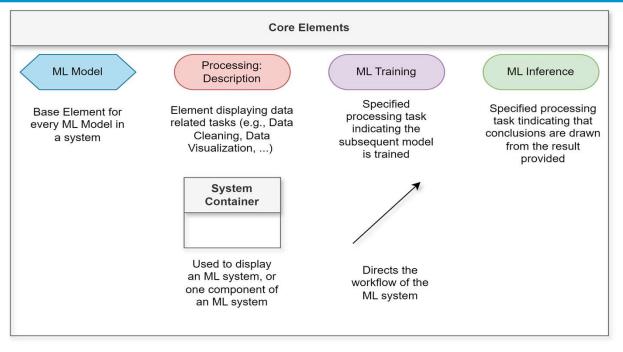


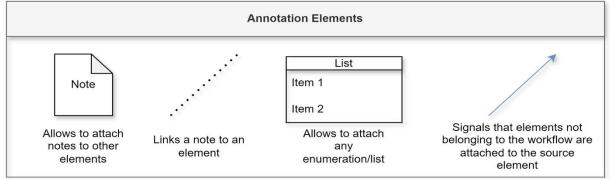
```
class NeuralNetwork(nn.Module):
  def ___init___(self):
     super().__init__()
     self.flatten = nn.Flatten()
     self.linear relu stack = nn.Sequential(
        nn.Linear(28*28, 512),
        nn.ReLU(),
        nn.Linear(512, 512),
        nn.ReLU(),
        nn.Linear(512, 10)
  def forward(self, x):
     x = self.flatten(x)
     logits = self.linear_relu_stack(x)
     return logits
model = NeuralNetwork().to(device)
print(model)
```



Elements





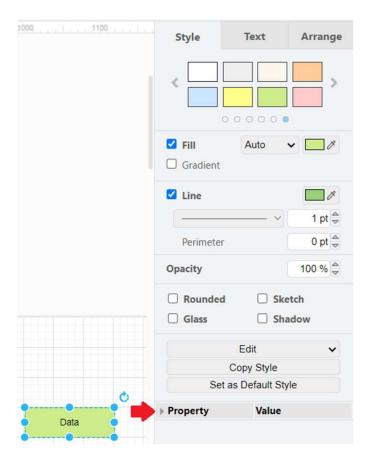




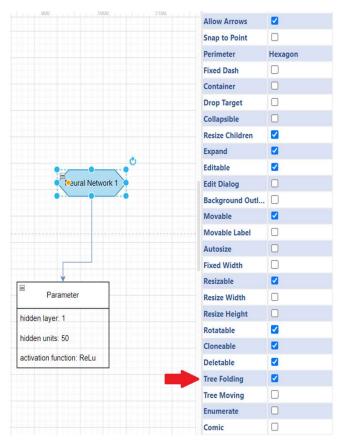
Element Properties



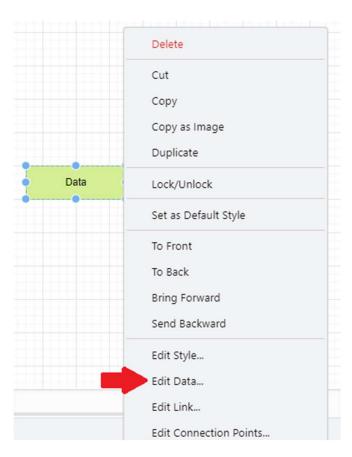
Open default properties



Select default properties



Assign custom properties





Rules



1. Legend

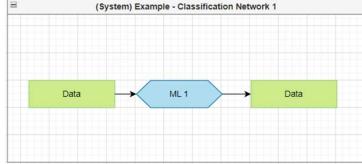
Core Elements

Annotation Elements

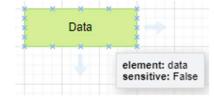
Legend

- 2. At least one system
- 3. At least one workflow

2. & 3.



- 4. "element" property assigned
- 5. Newly introduced elements have to be added to the legend

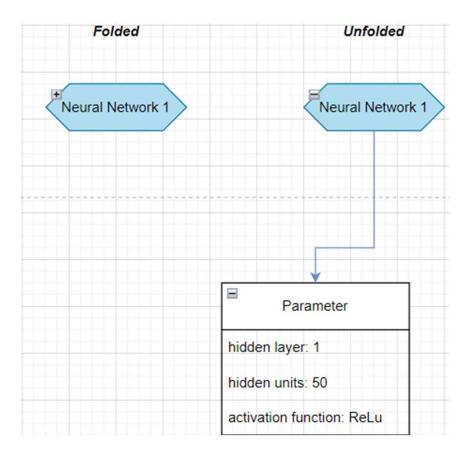




Attaching Further Details



- Own connector to distinguish
- Relevant for interactive diagrams& code in the background











Backup





Known Limitations



- Flexibility vs. Robustness
 - Room for ambiguity despite legend
- Annotating large quantities of details (e.g., Properties)
- Input Restrictions for elements
- Introducing semantic rules



Future Work



- For Draw.io
 - Different Layers
 - Intern Links
- Autonomous code extraction
- Diagram generation via code + stored building elements
- Introducing more granular syntactic & semantic rules, which do not take away too much flexibility

