

# Examine saved models

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The purpose of this notebook is to examine the learned representations and accuracies of saved models.

## Setup

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### Add NeuralODE code

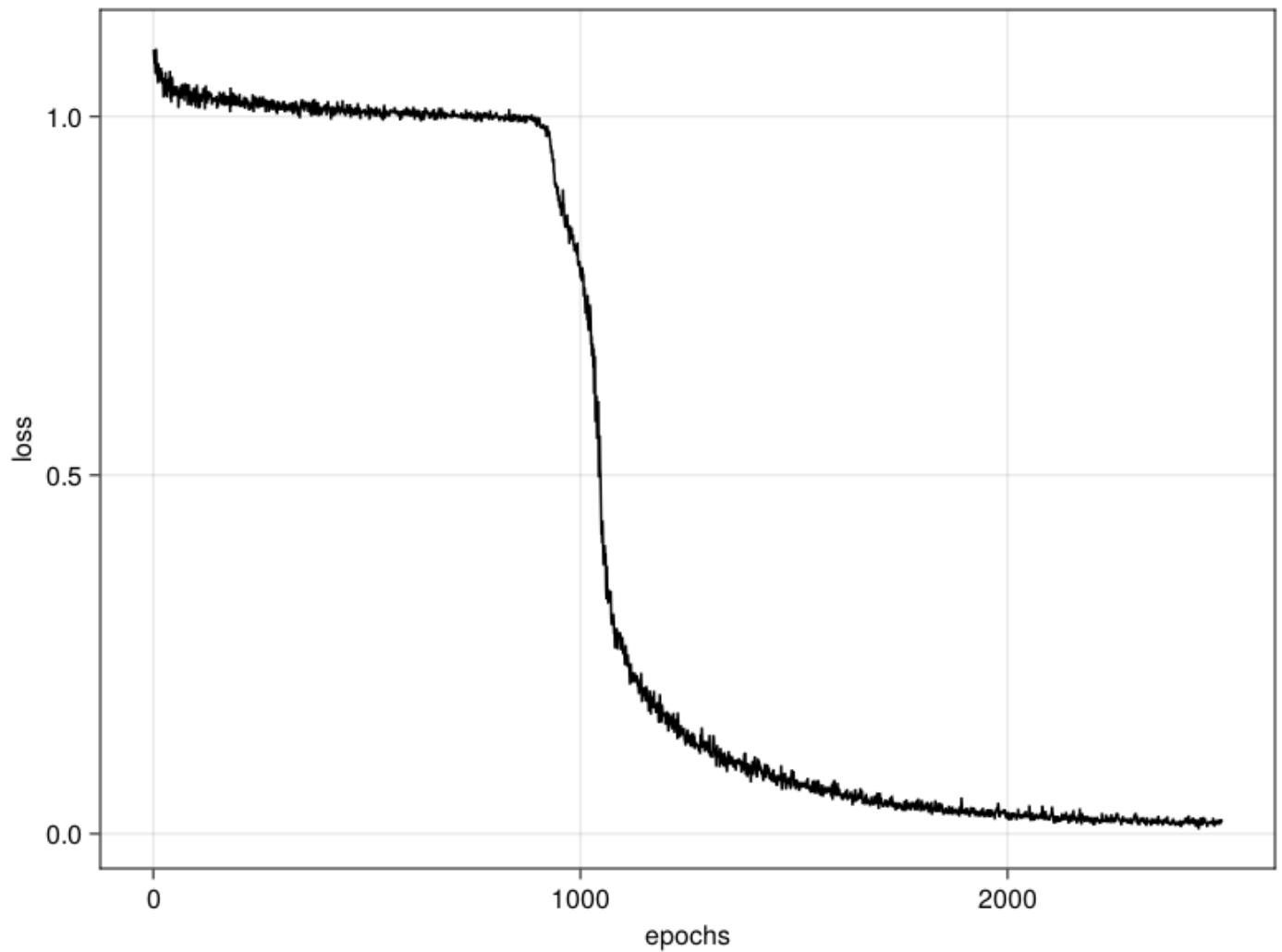
```
train (generic function with 1 method)
```

### Load model

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```
loadModel (generic function with 1 method)
```

```
(Chain(
  layer 1 = Scale((100.))...      # 100 parameters
```



## Load data

```
(ArrayAndFuncs([1.0, 1.0, 1.0, 1.0, 1.0, more ,1.0], [Interpolate([ more], [ more
```

## Add display method for Interpolate

```
1 function (itp::Interpolate)(t::Float64)
2     i = searchsortedfirst(itp.locations, t)
3     @inbounds itp.SET[i] - 1
4 end
```

# Test model

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## Training data

1.0

## Testing data

1.0

# What is the testing SET number?

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SET\_num = 21

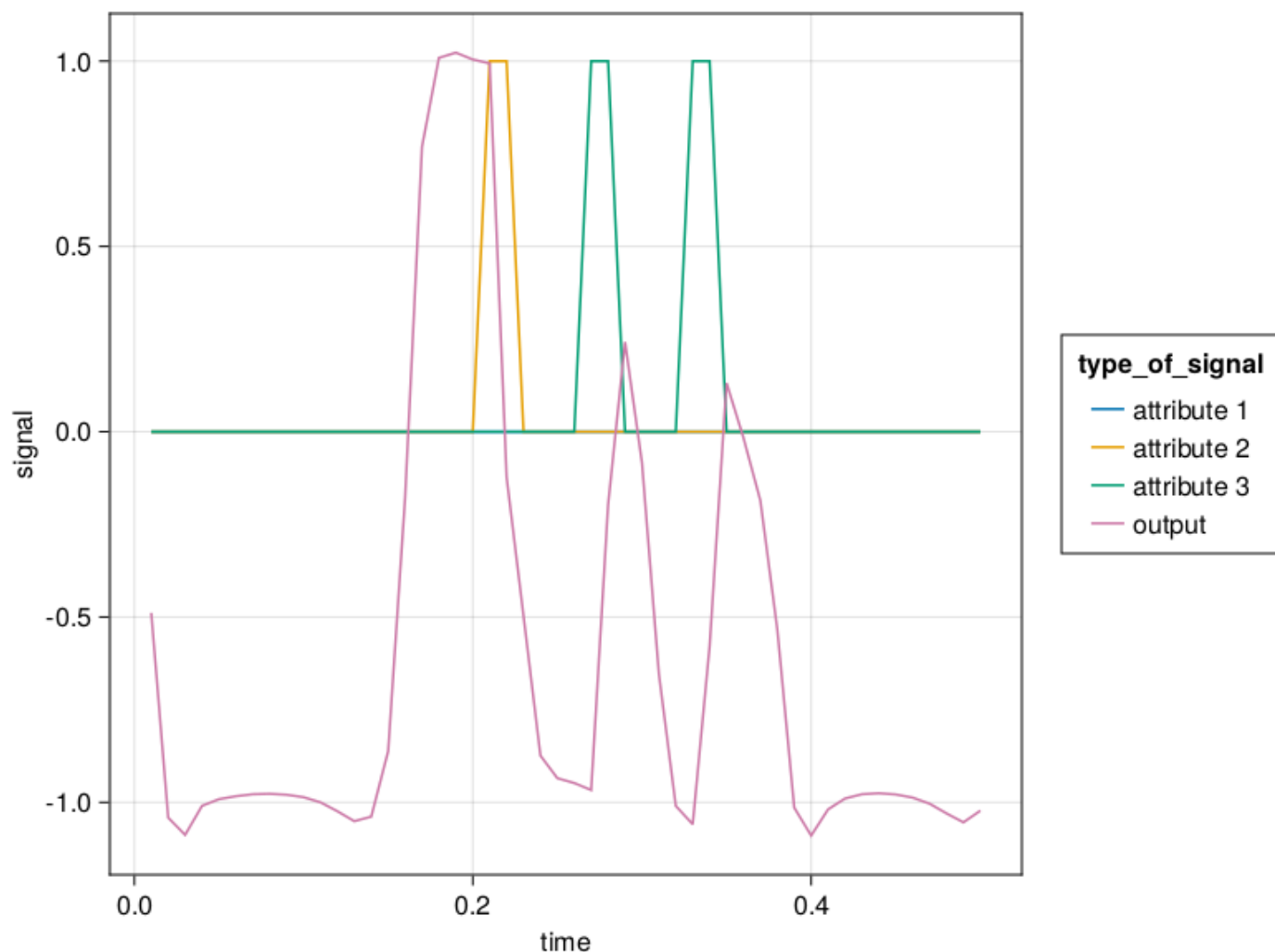
1 SET\_num = 21

# Visualize low-dimensional dynamics

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input\_to\_mat (generic function with 1 method)

This is data.



```

1 begin
2     df_input = DataFrame(
3         time = vcat(time_range, time_range, time_range, time_range),
4         signal = vcat(input[1, :],
5                       input[2, :],
6                       input[3, :],
7                       y),
8         type_of_signal = vcat(["attribute 1" for i in 1:50],
9                               ["attribute 2" for i in 1:50],
10                              ["attribute 3" for i in 1:50],
11                              ["output" for i in 1:50]),
12     )
13     plt_input = data(df_input) * mapping(:time, :signal; color=:type_of_signal) *
14     visual(Lines)
15     draw(plt_input)
16 end

```

