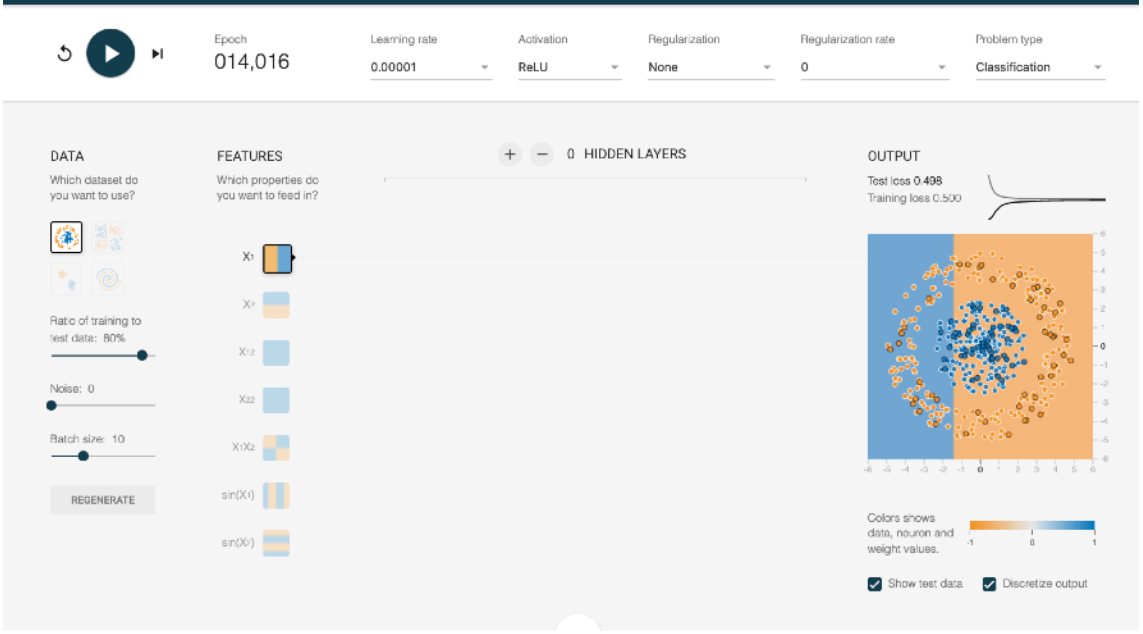
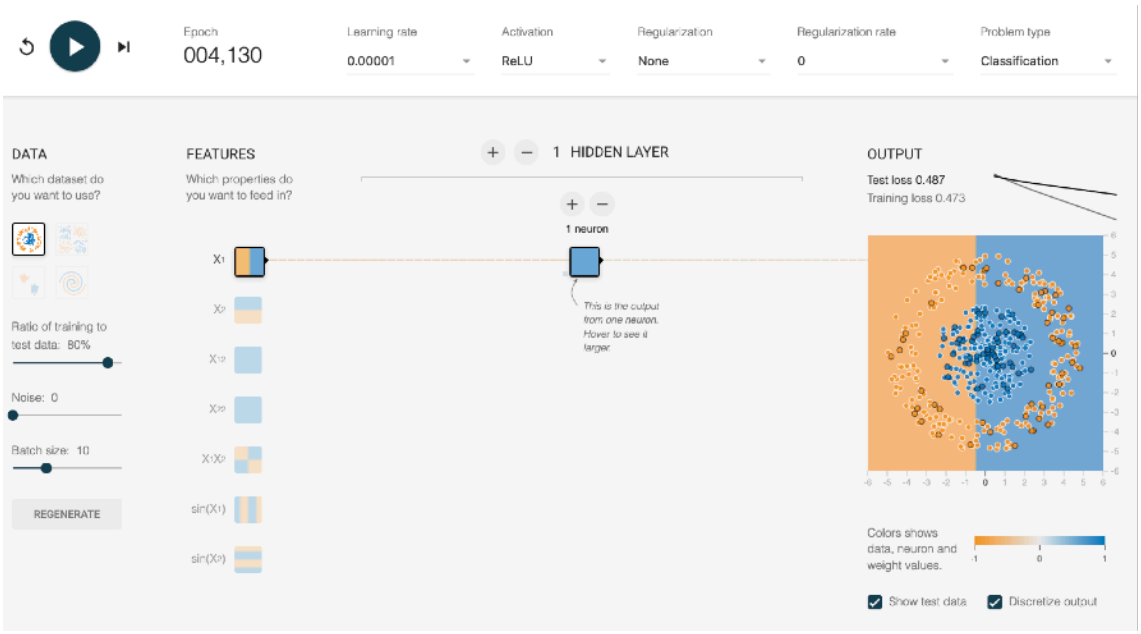
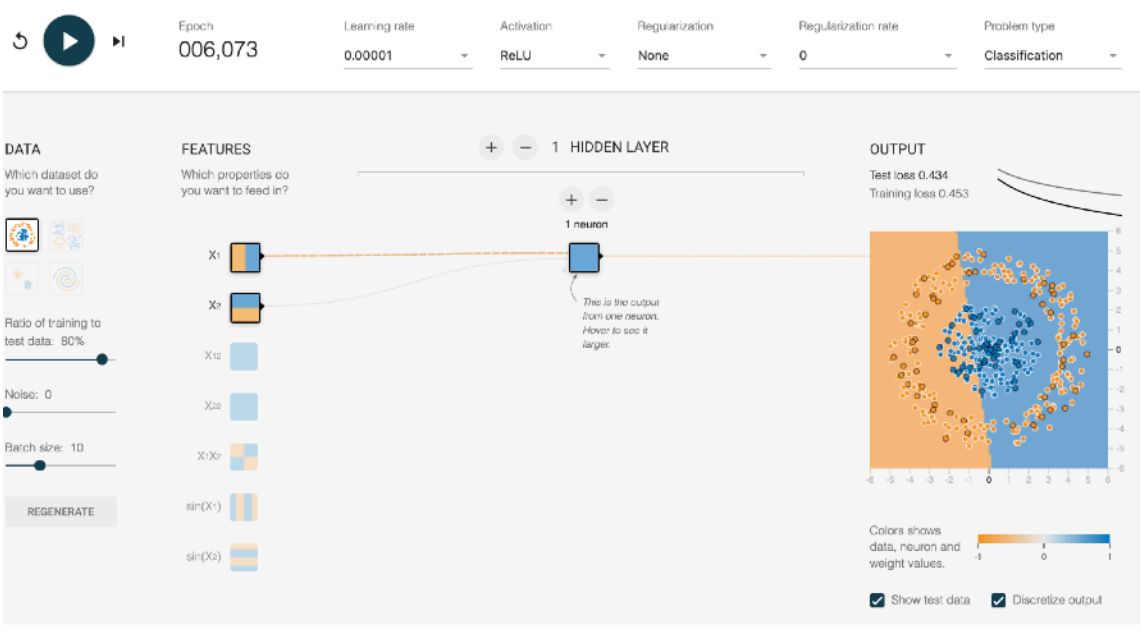
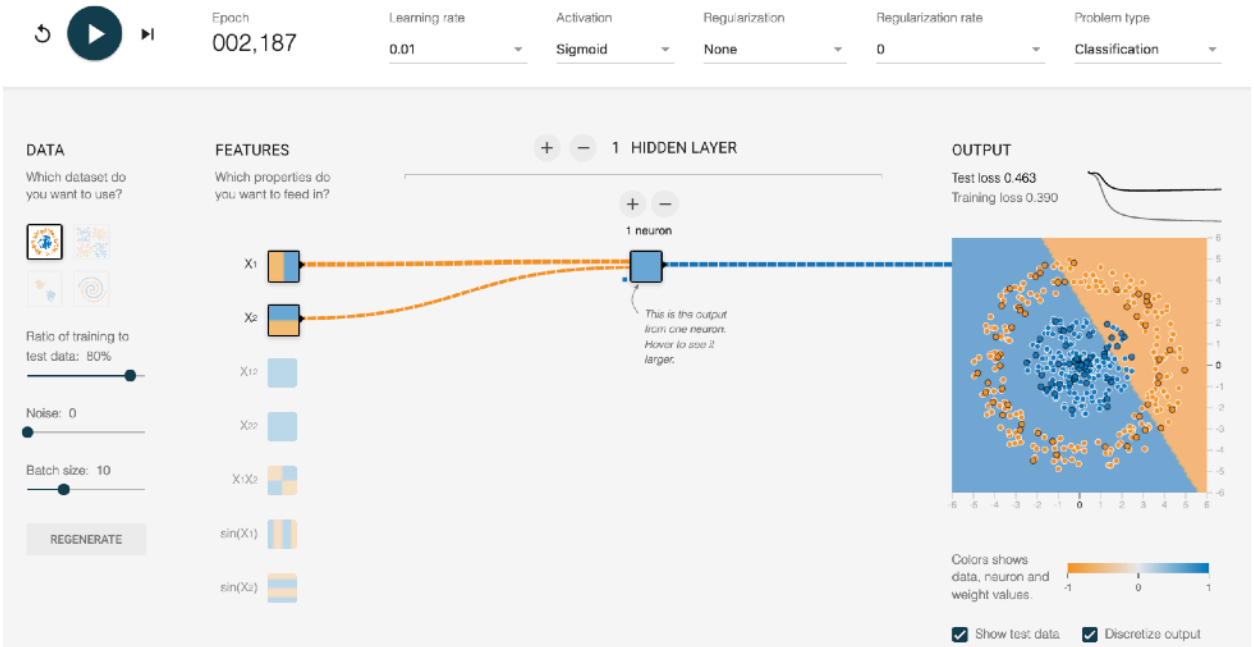
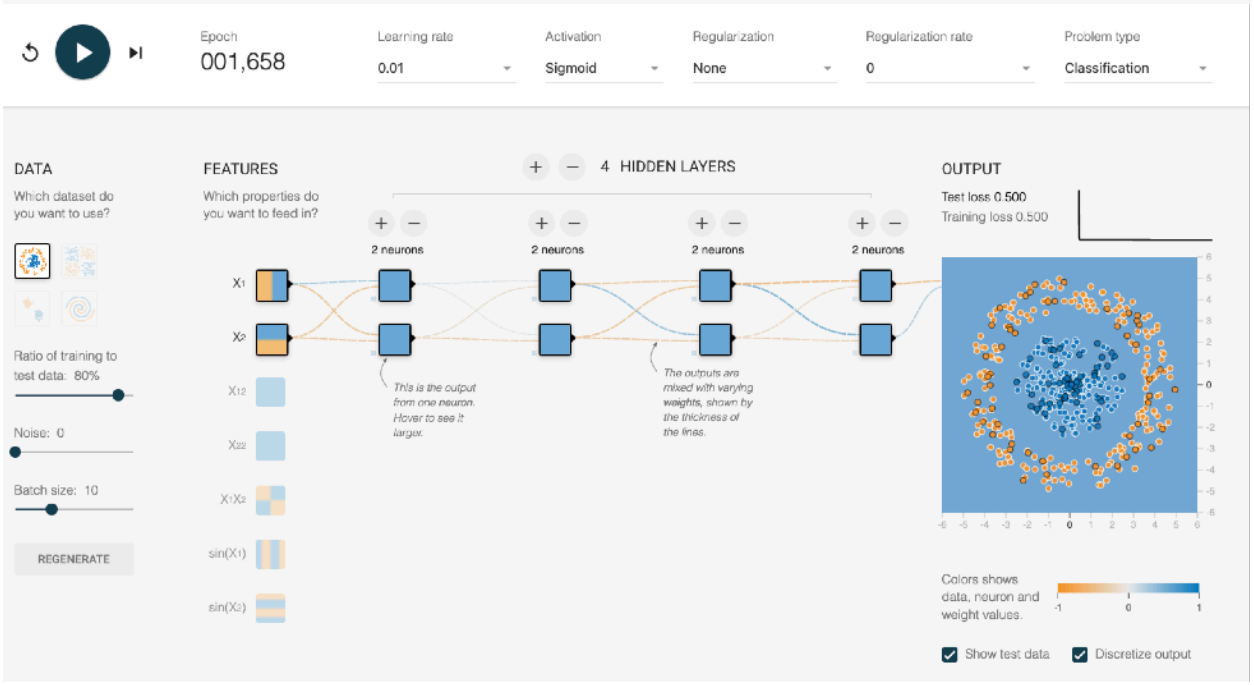
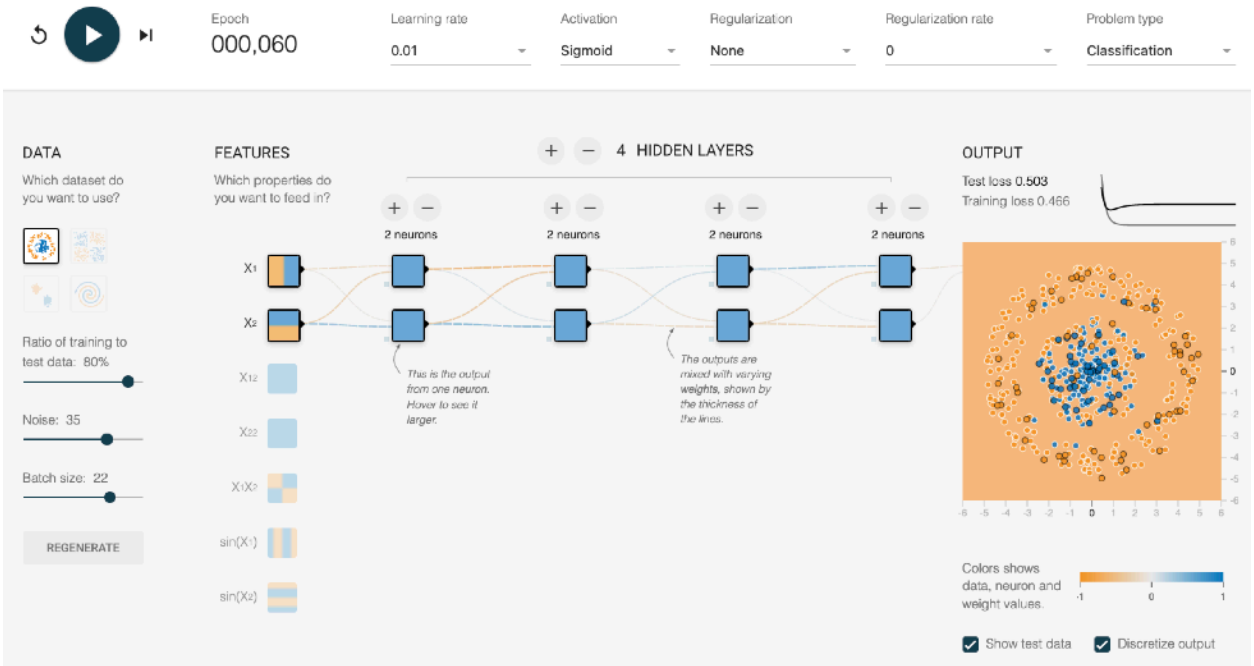

Epoch
014,016
Learning rate
0.00001
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 0
Batch size: 10
REGENERATE
FEATURES
Which properties do you want to feed in?
0 HIDDEN LAYERS
OUTPUT
Test loss 0.498
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data
Discretize output

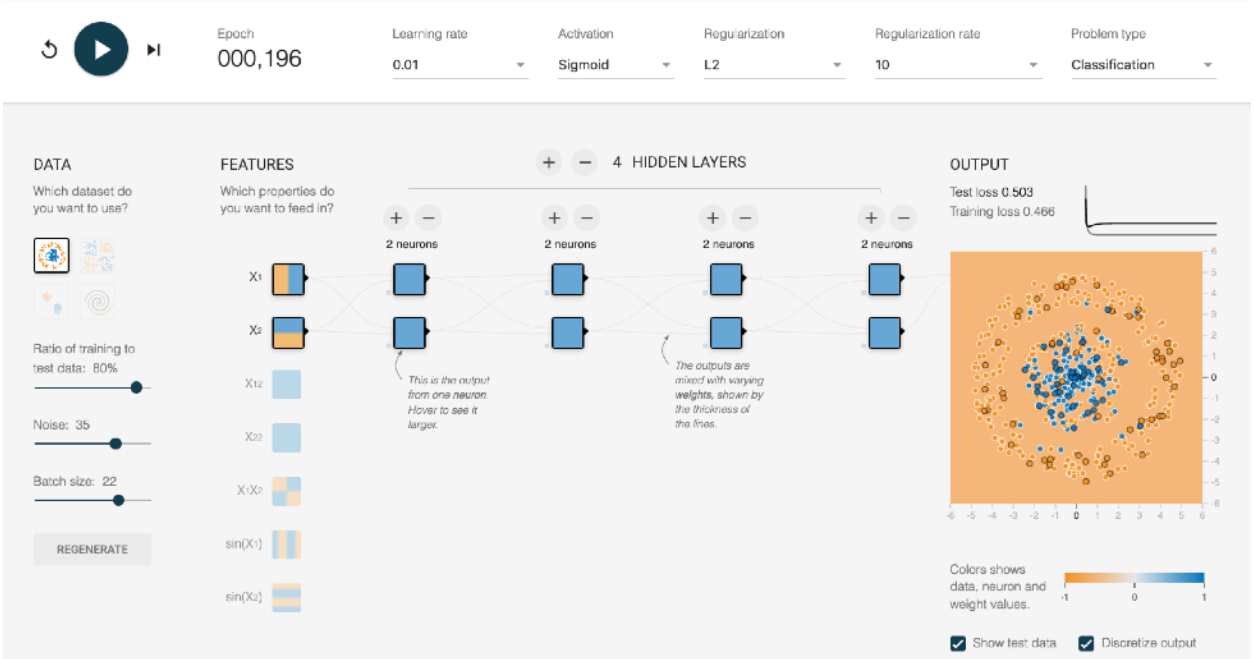

Epoch
004,130
Learning rate
0.00001
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 0
Batch size: 10
REGENERATE
FEATURES
Which properties do you want to feed in?
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.487
Training loss 0.473
Colors shows data, neuron and weight values.
Show test data
Discretize output

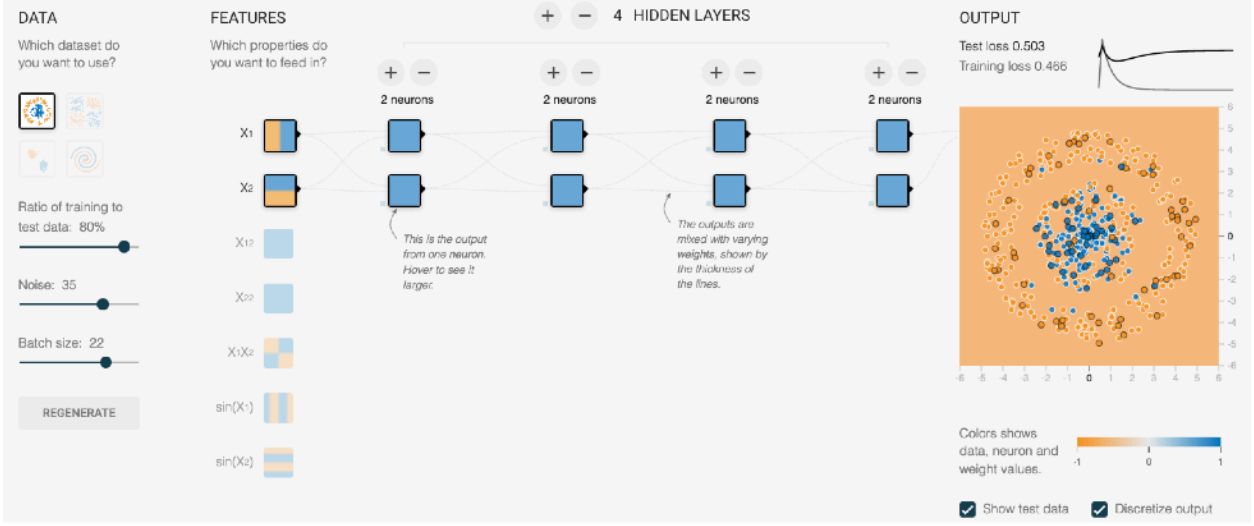

Epoch
006,073
Learning rate
0.00001
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 0
Batch size: 10
REGENERATE
FEATURES
Which properties do you want to feed in?
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.434
Training loss 0.453
Colors shows data, neuron and weight values.
Show test data
Discretize output

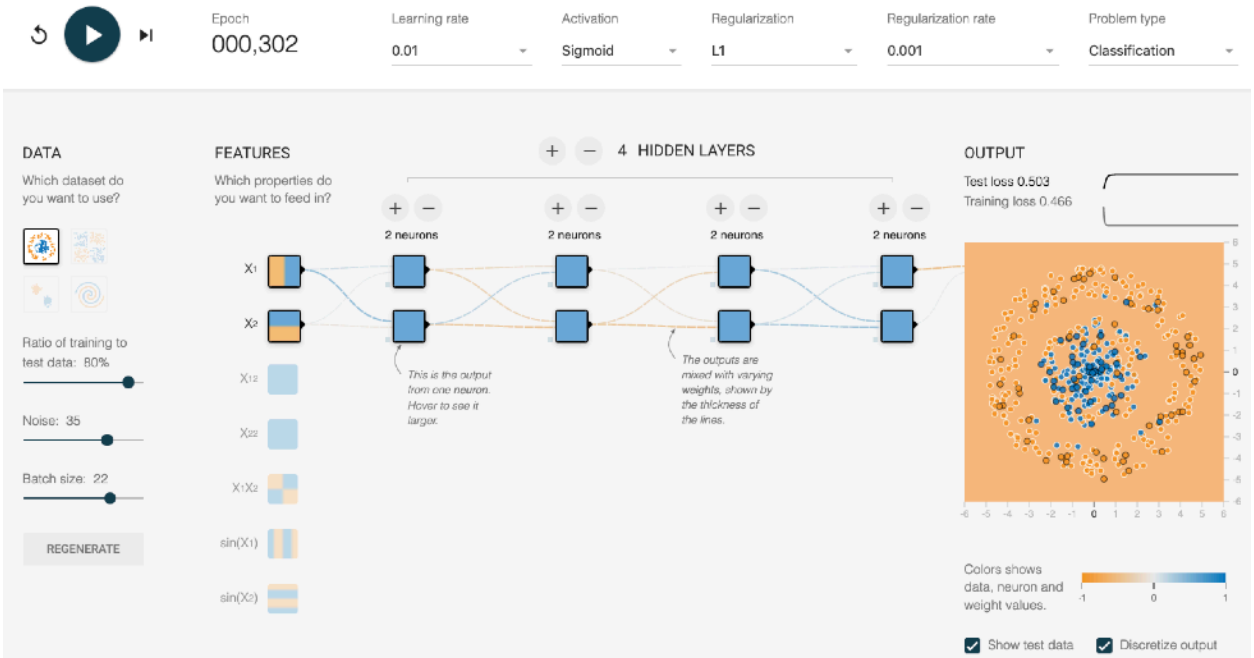

Epoch
002,187
Learning rate
0.01
Activation
Sigmoid
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 0
Batch size: 10
REGENERATE
FEATURES
Which properties do you want to feed in?
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.463
Training loss 0.390
Colors shows data, neuron and weight values.
Show test data
Discretize output

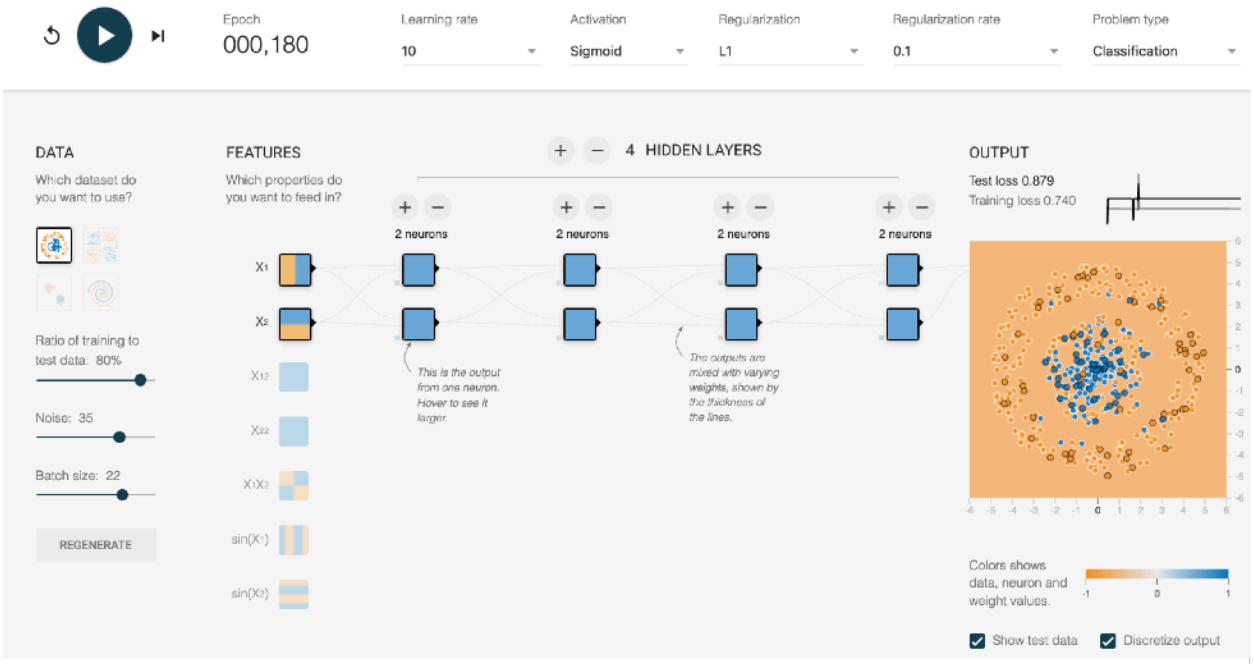

Epoch
001,658
Learning rate
0.01
Activation
Sigmoid
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 0
Batch size: 10
REGENERATE
FEATURES
Which properties do you want to feed in?
4 HIDDEN LAYERS
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.500
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data
Discretize output

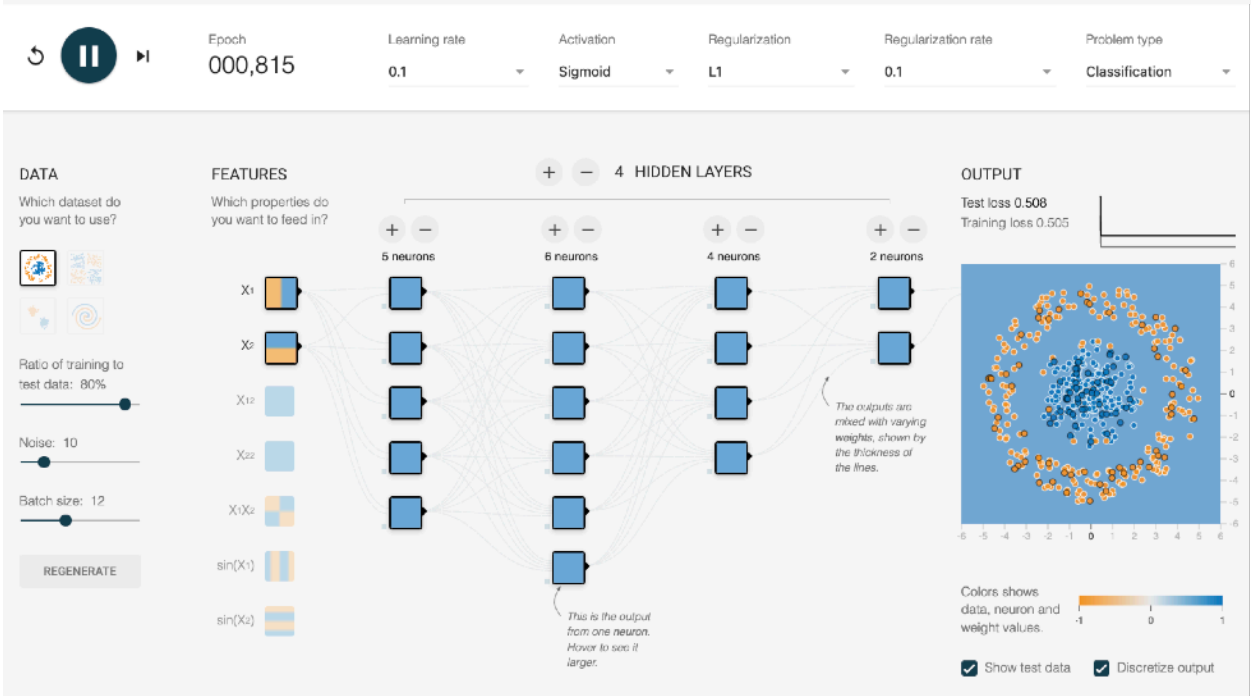

Epoch
000,060
Learning rate
0.01
Activation
Sigmoid
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 35
Batch size: 22
REGENERATE
FEATURES
Which properties do you want to feed in?
4 HIDDEN LAYERS
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.503
Training loss 0.466
Colors shows data, neuron and weight values.
Show test data
Discretize output

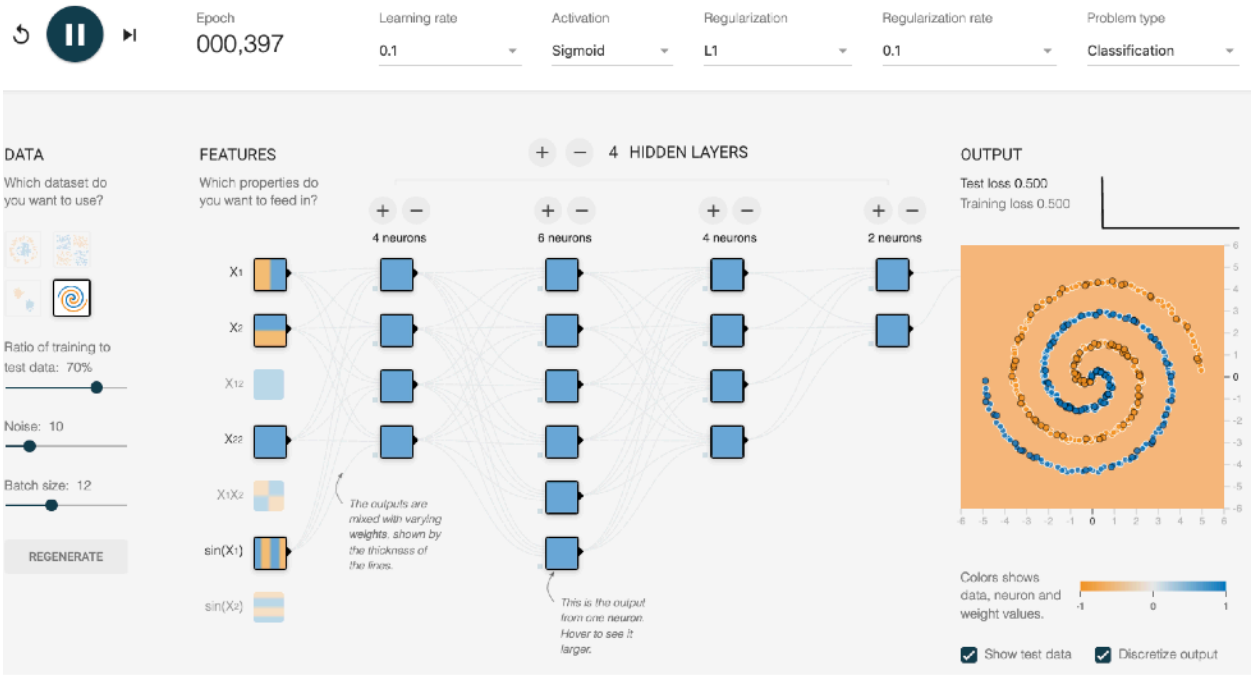

Epoch
000,196
Learning rate
0.01
Activation
Sigmoid
Regularization
L2
Regularization rate
10
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 35
Batch size: 22
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
2 neurons
2 neurons
2 neurons
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.503
Training loss 0.466
Colors shows data, neuron and weight values.
Show test data
Discretize output

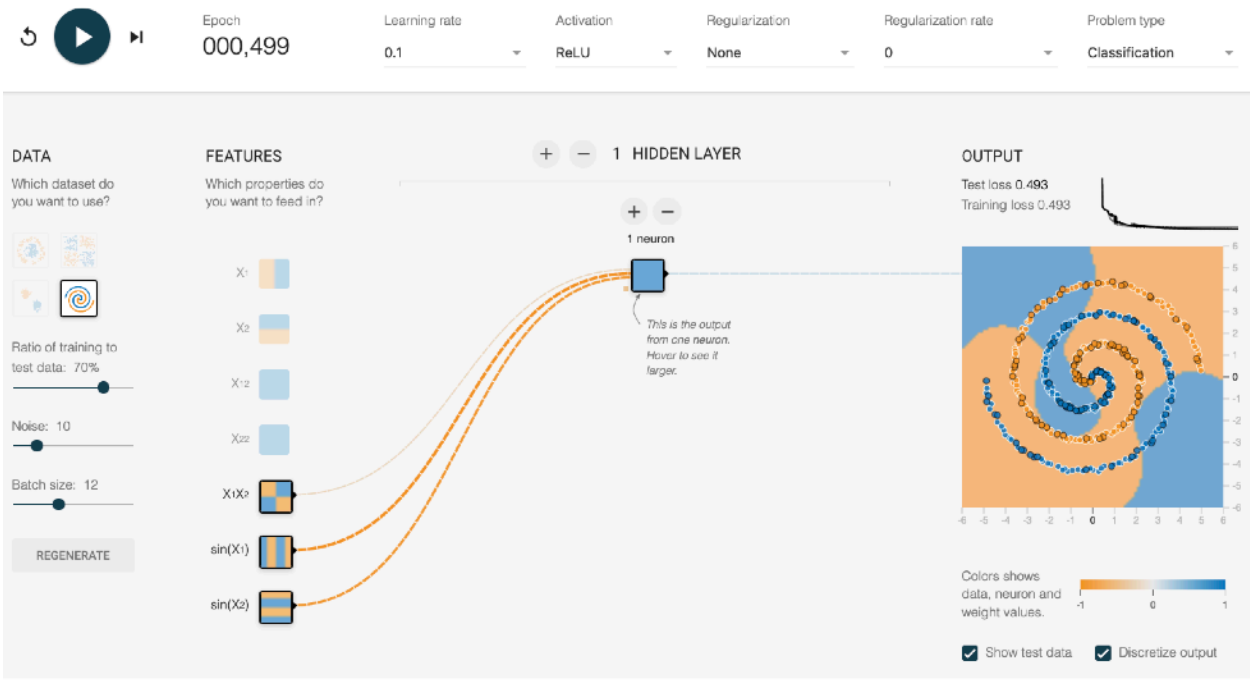

DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 35
Batch size: 22
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
2 neurons
2 neurons
2 neurons
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.503
Training loss 0.466
Colors shows data, neuron and weight values.
Show test data
Discretize output

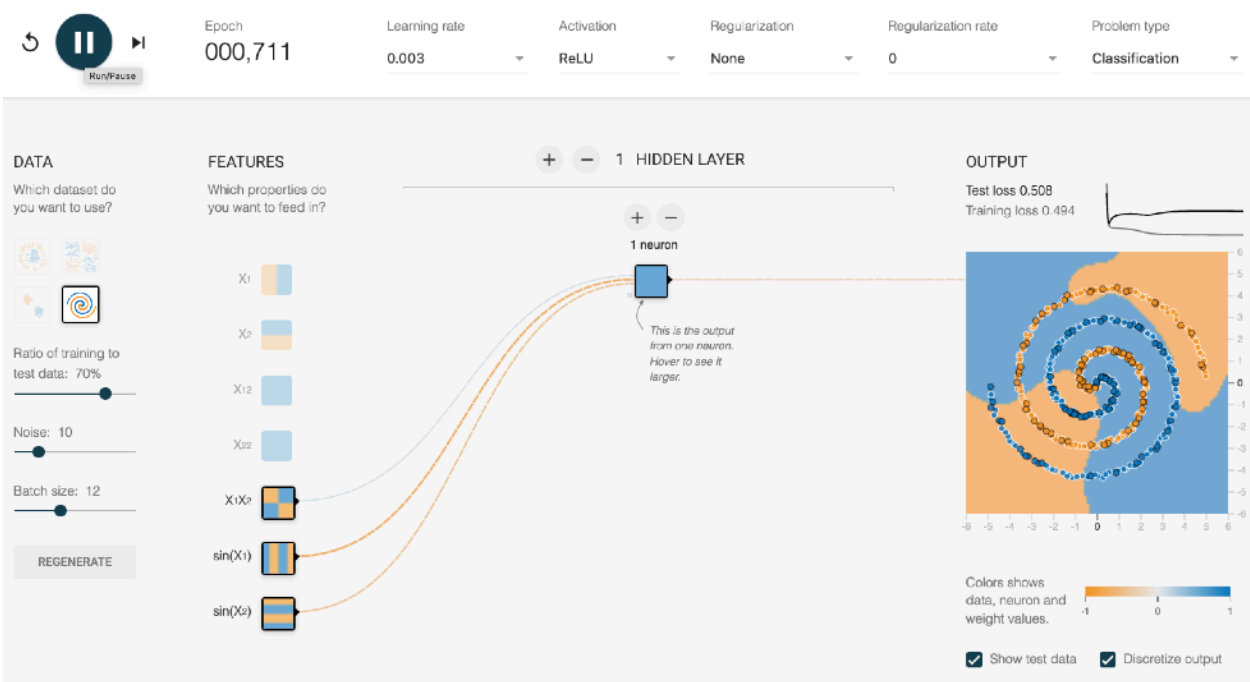

Epoch
000,302
Learning rate
0.01
Activation
Sigmoid
Regularization
L1
Regularization rate
0.001
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 35
Batch size: 22
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
2 neurons
2 neurons
2 neurons
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.503
Training loss 0.466
Colors shows data, neuron and weight values.
Show test data
Discretize output

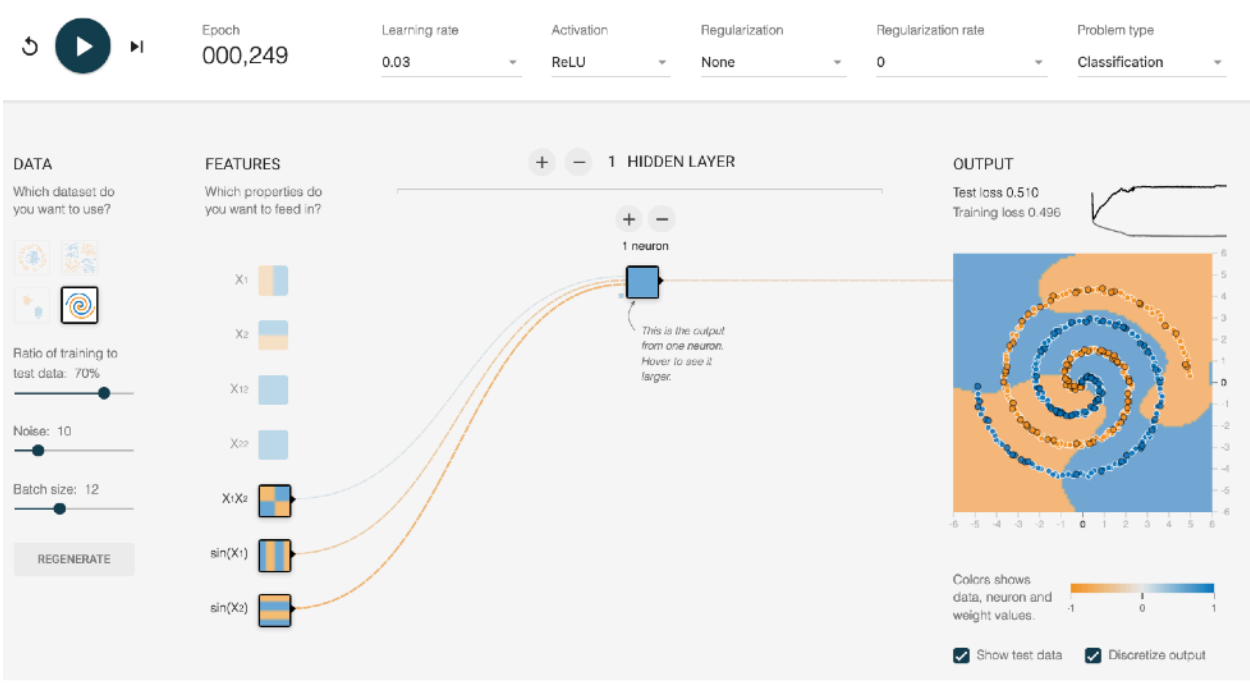

Epoch
000,180
Learning rate
10
Activation
Sigmoid
Regularization
L1
Regularization rate
0.1
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 35
Batch size: 22
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X12
X22
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
2 neurons
2 neurons
2 neurons
2 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.879
Training loss 0.740
Colors shows data, neuron and weight values.
Show test data
Discretize output

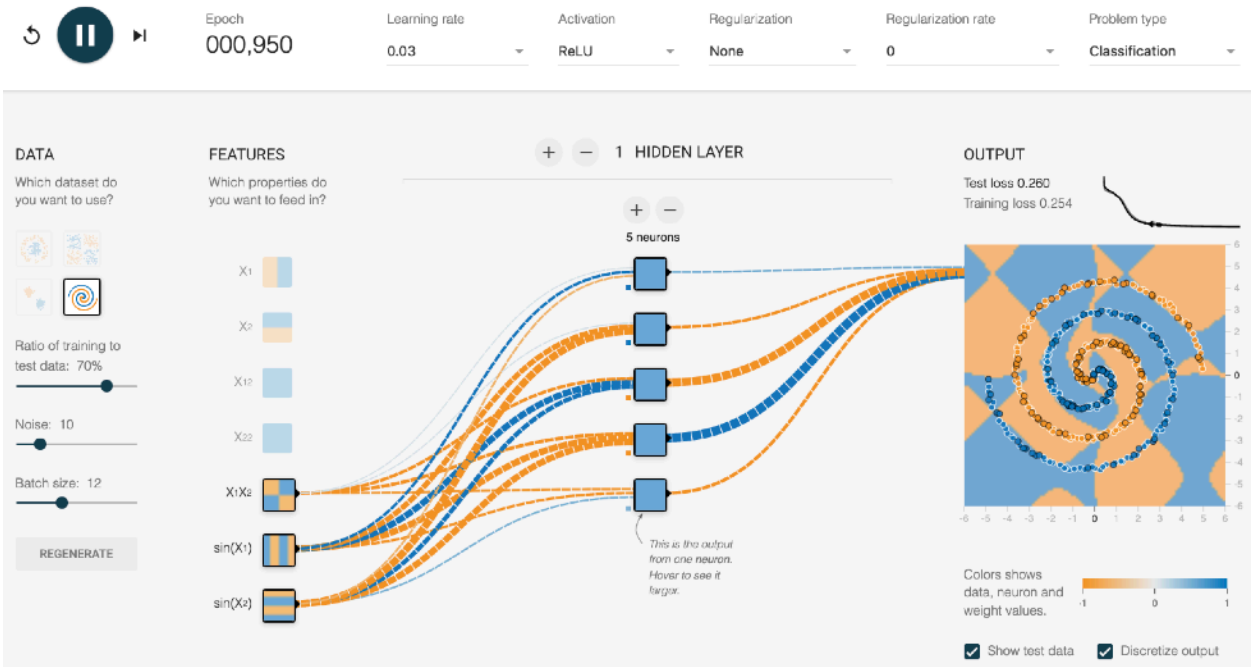

Epoch
000,815
Learning rate
0.1
Activation
Sigmoid
Regularization
L1
Regularization rate
0.1
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 80%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X12
X22
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
5 neurons
6 neurons
4 neurons
2 neurons
The outputs are mixed with varying weights, shown by the thickness of the lines.
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.508
Training loss 0.505
Colors shows data, neuron and weight values.
Show test data
Discretize output

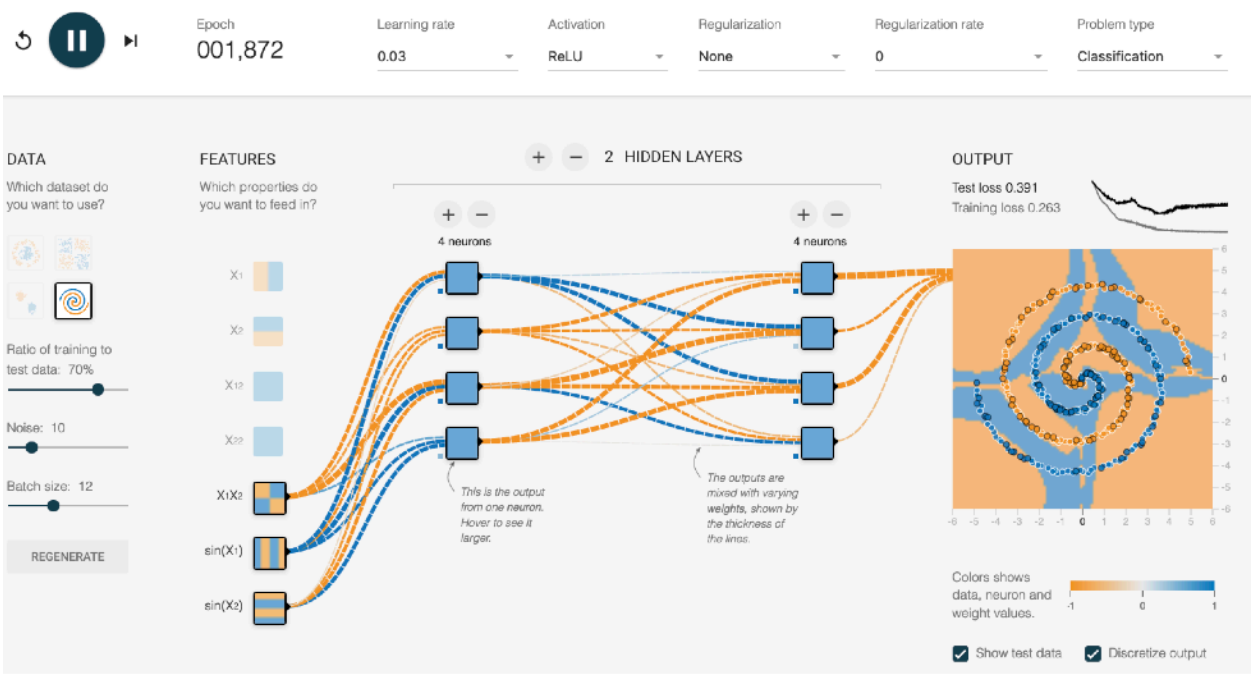

Epoch
000,397
Learning rate
0.1
Activation
Sigmoid
Regularization
L1
Regularization rate
0.1
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X12
X22
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
4 neurons
6 neurons
4 neurons
2 neurons
The outputs are mixed with varying weights, shown by the thickness of the lines.
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.500
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data
Discretize output

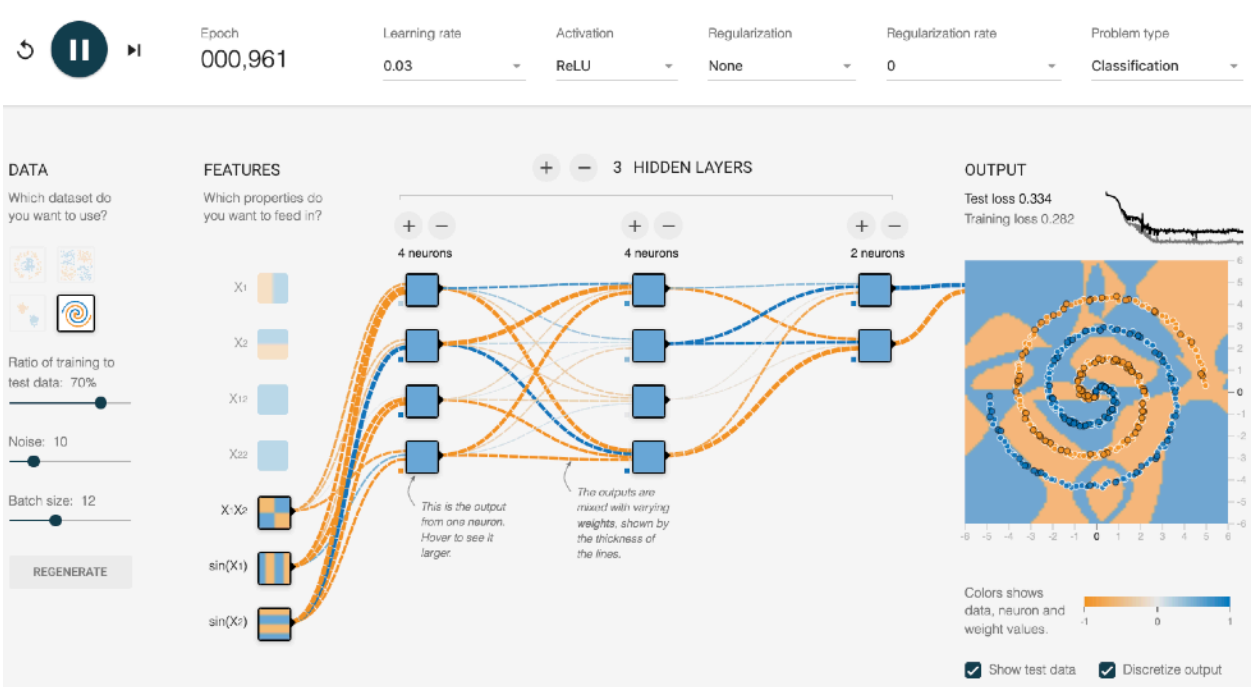

Epoch
000,499
Learning rate
0.1
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.493
Training loss 0.493
Colors shows data, neuron and weight values.
Show test data
Discretize output

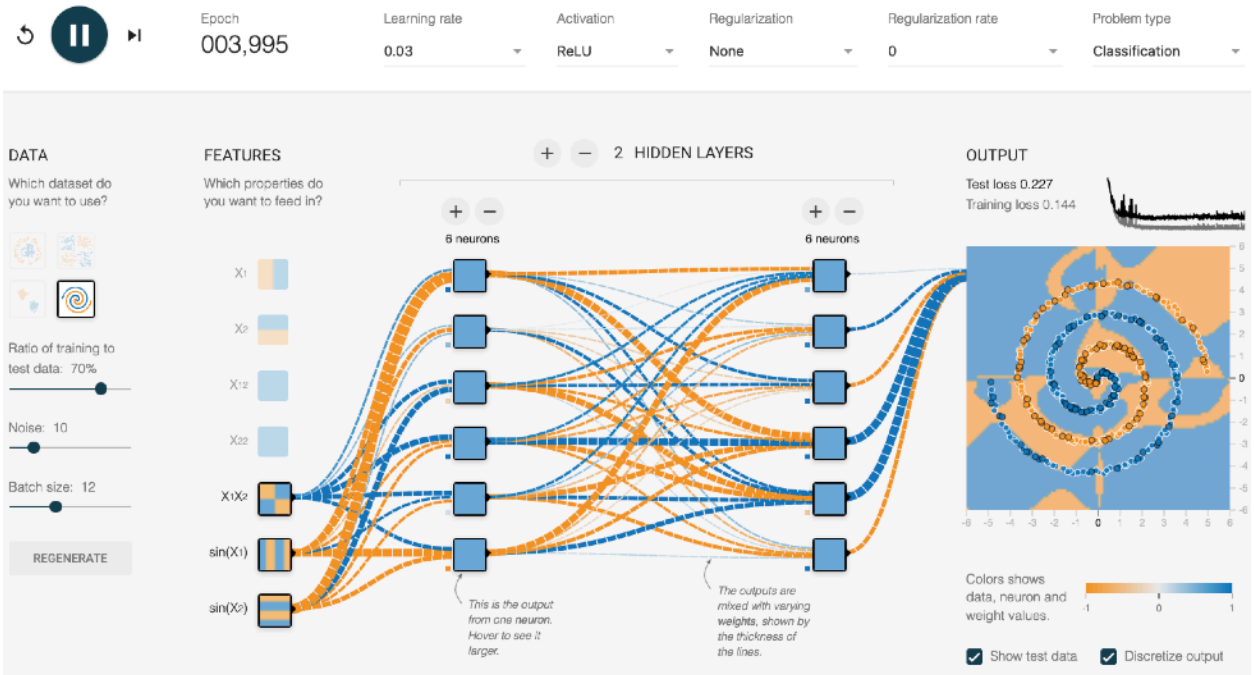

Run/Pause
Epoch
000,711
Learning rate
0.003
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.508
Training loss 0.494
Colors shows data, neuron and weight values.
Show test data
Discretize output

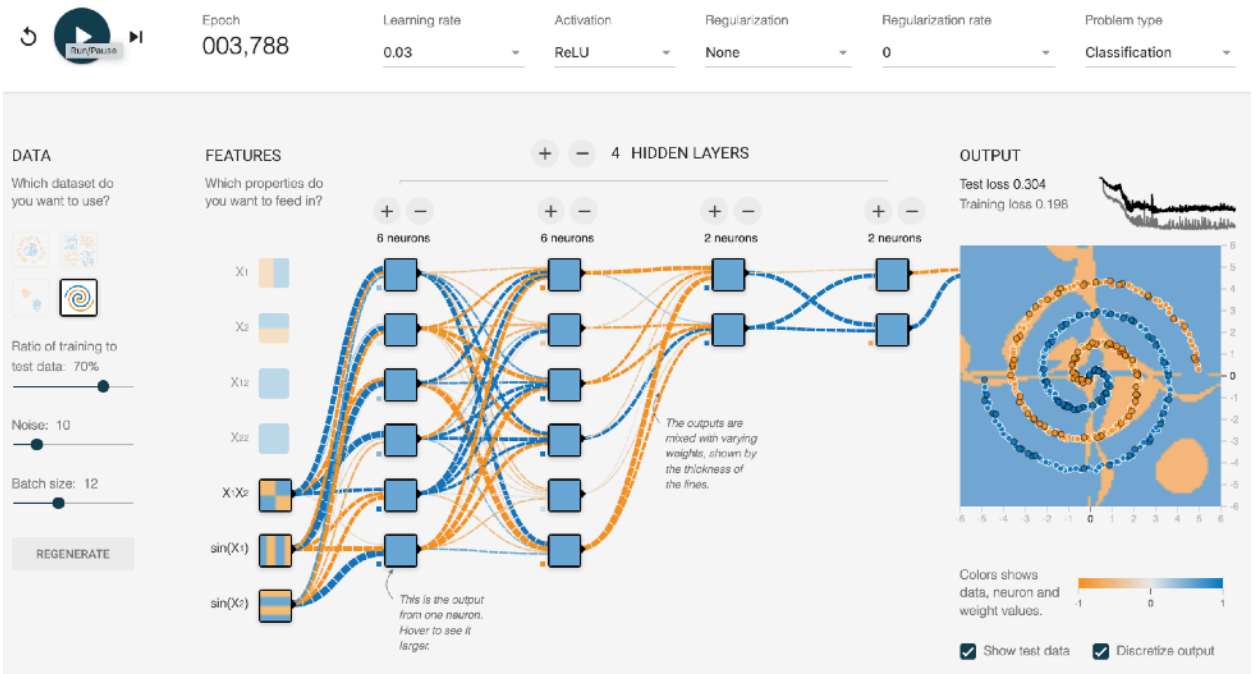

Epoch
000,249
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
1 HIDDEN LAYER
1 neuron
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.510
Training loss 0.496
Colors shows data, neuron and weight values.
Show test data
Discretize output

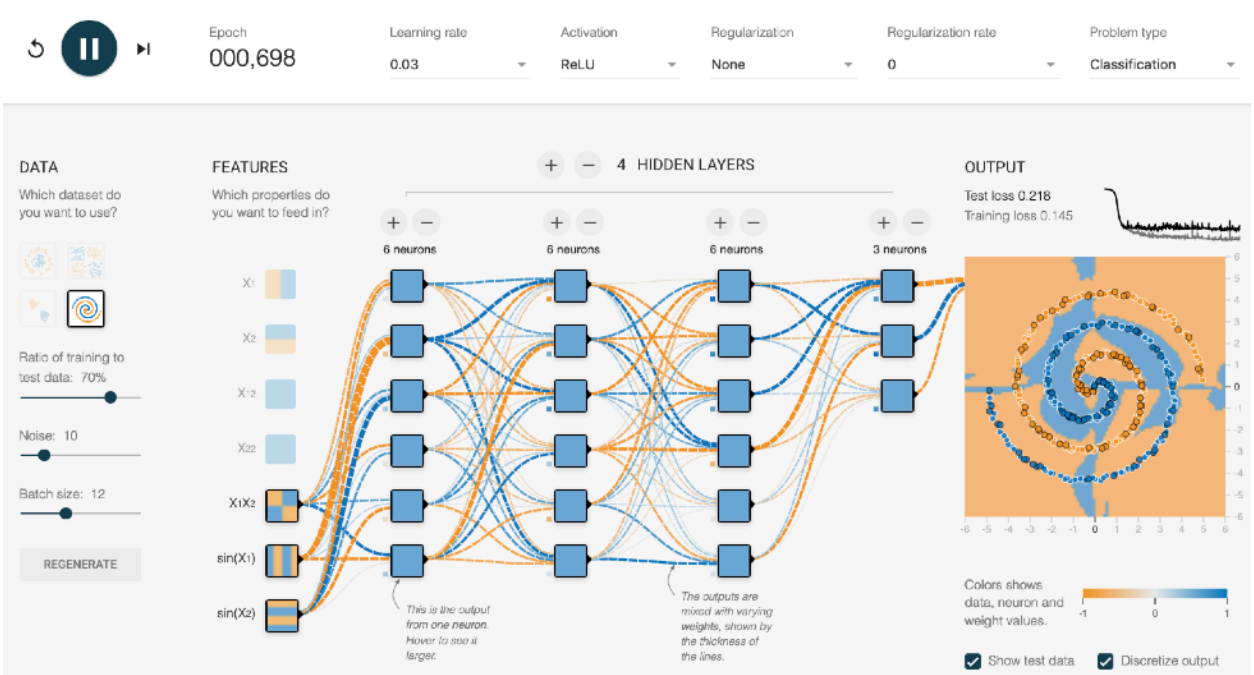

Epoch
000,950
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
1 HIDDEN LAYER
5 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
OUTPUT
Test loss 0.260
Training loss 0.254
Colors shows data, neuron and weight values.
Show test data
Discretize output


Epoch
001,872
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
2 HIDDEN LAYERS
4 neurons
4 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.391
Training loss 0.263
Colors shows data, neuron and weight values.
Show test data
Discretize output


Epoch
000,961
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
3 HIDDEN LAYERS
4 neurons
4 neurons
2 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.334
Training loss 0.282
Colors shows data, neuron and weight values.
Show test data
Discretize output


Epoch
003,995
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
2 HIDDEN LAYERS
6 neurons
6 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.227
Training loss 0.144
Colors shows data, neuron and weight values.
Show test data
Discretize output


Epoch
003,788
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
4 HIDDEN LAYERS
6 neurons
6 neurons
2 neurons
2 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.304
Training loss 0.198
Colors shows data, neuron and weight values.
Show test data
Discretize output


Epoch
000,698
Learning rate
0.03
Activation
ReLU
Regularization
None
Regularization rate
0
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
4 HIDDEN LAYERS
6 neurons
6 neurons
6 neurons
3 neurons
X1
X2
X1²
X2²
X1X2
sin(X1)
sin(X2)
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.218
Training loss 0.145
Colors shows data, neuron and weight values.
Show test data
Discretize output

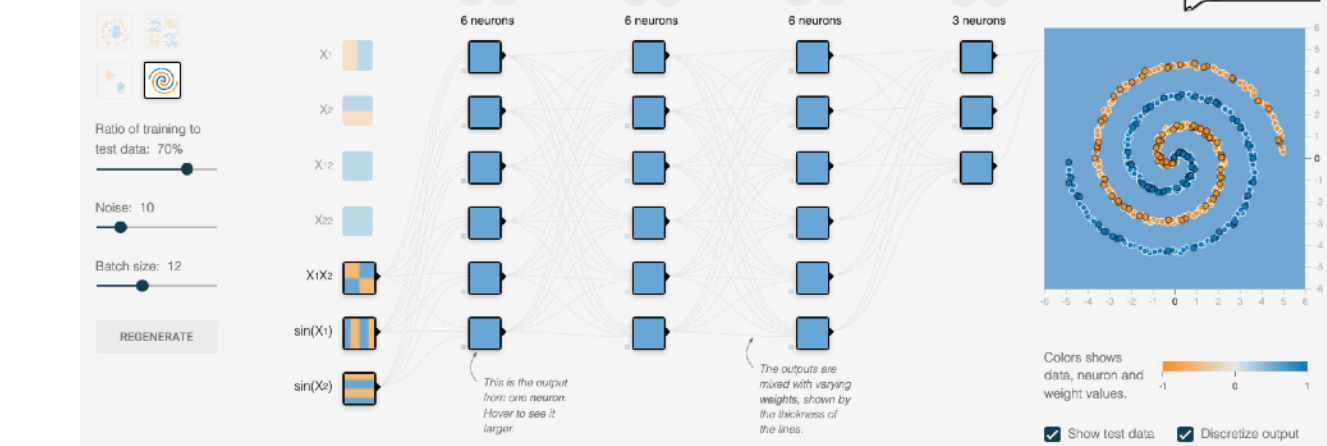
Epoch 000,600 | Learning rate 0.03 | Activation ReLU | Regularization L1 | Regularization rate 0.003 | Problem type Classification

DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE

FEATURES
Which properties do you want to feed in?
X_1
X_2
X_1^2
X_2^2
X_1X_2
$\sin(X_1)$
$\sin(X_2)$

4 HIDDEN LAYERS
6 neurons | 6 neurons | 6 neurons | 3 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.

OUTPUT
Test loss 0.500
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data | Discretize output



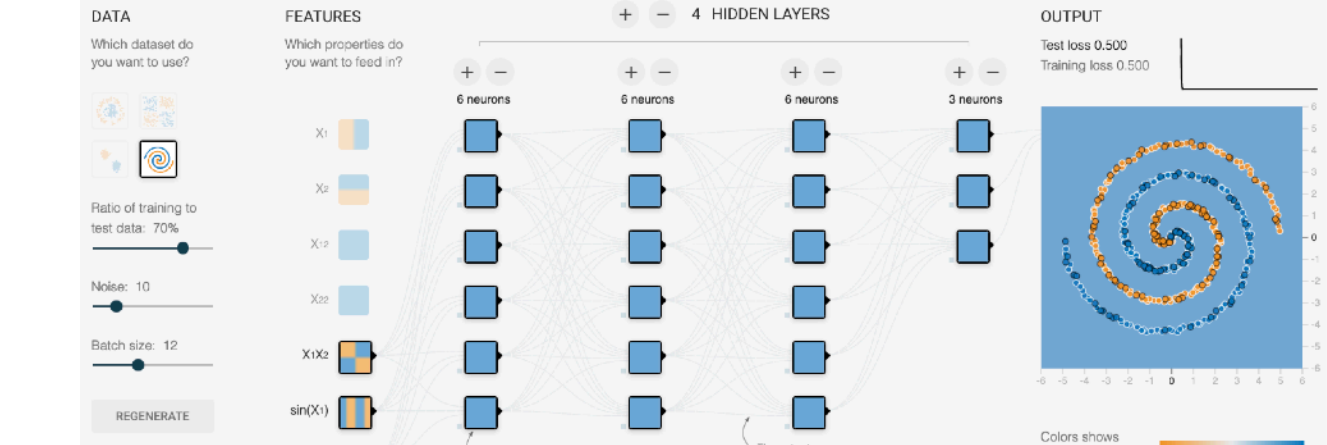
Epoch 000,317 | Learning rate 0.03 | Activation ReLU | Regularization L1 | Regularization rate 10 | Problem type Classification

DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE

FEATURES
Which properties do you want to feed in?
X_1
X_2
X_1^2
X_2^2
X_1X_2
$\sin(X_1)$
$\sin(X_2)$

4 HIDDEN LAYERS
6 neurons | 6 neurons | 6 neurons | 3 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.

OUTPUT
Test loss 0.500
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data | Discretize output



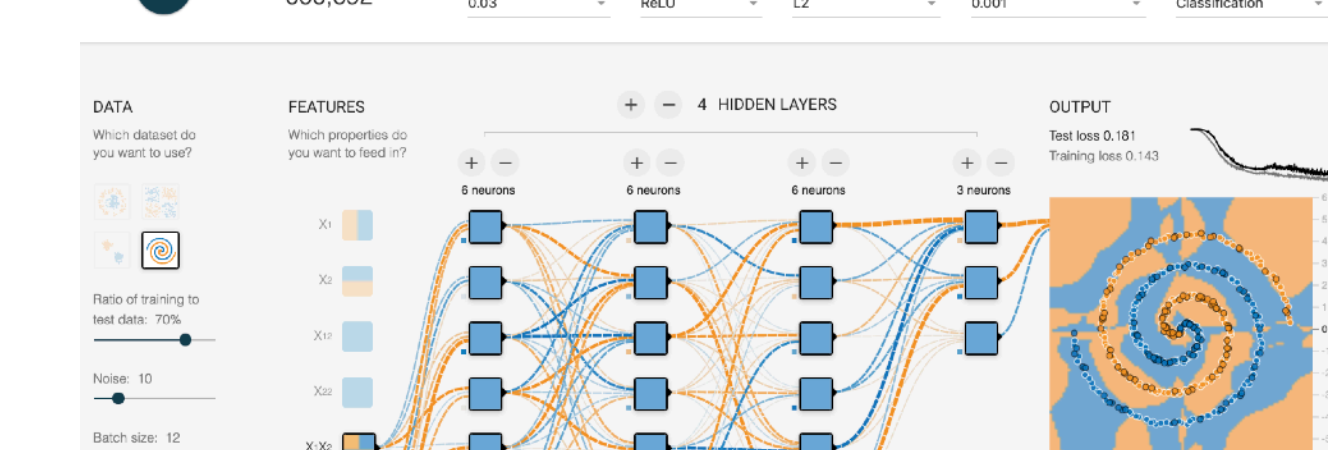
Epoch 000,692 | Learning rate 0.03 | Activation ReLU | Regularization L2 | Regularization rate 0.001 | Problem type Classification

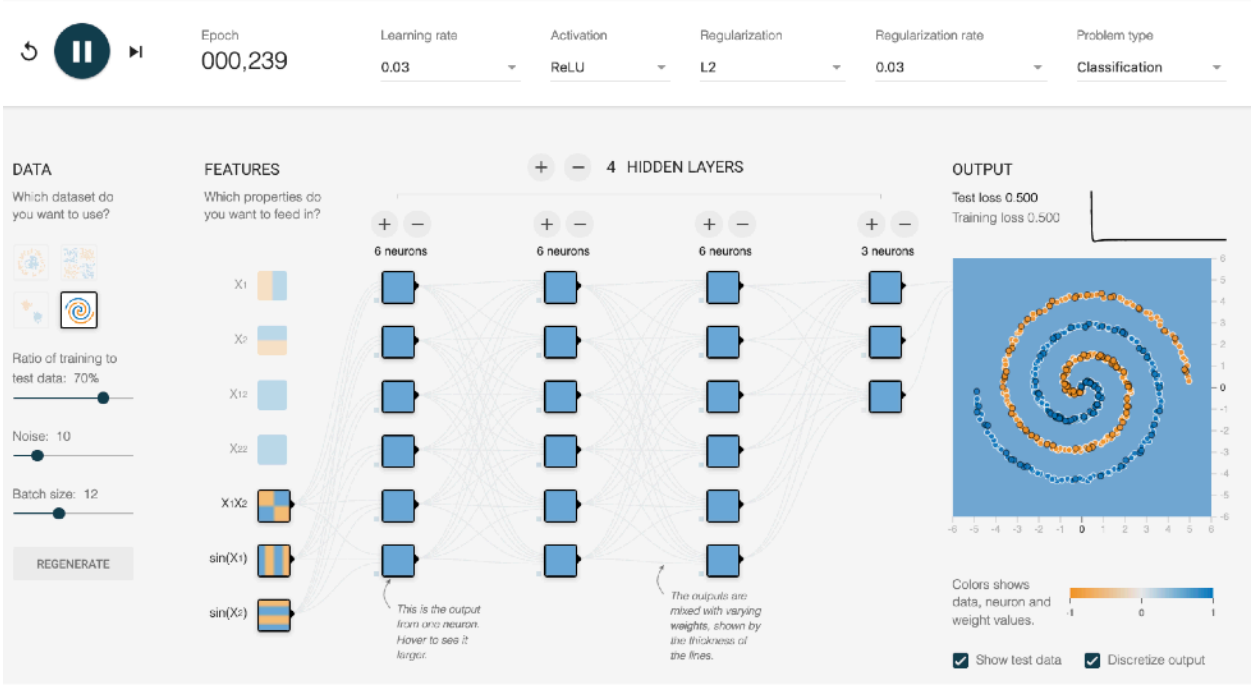
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE

FEATURES
Which properties do you want to feed in?
X_1
X_2
X_1^2
X_2^2
X_1X_2
$\sin(X_1)$
$\sin(X_2)$

4 HIDDEN LAYERS
6 neurons | 6 neurons | 6 neurons | 3 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.

OUTPUT
Test loss 0.181
Training loss 0.143
Colors shows data, neuron and weight values.
Show test data | Discretize output




Epoch
000,239
Learning rate
0.03
Activation
ReLU
Regularization
L2
Regularization rate
0.03
Problem type
Classification
DATA
Which dataset do you want to use?
Ratio of training to test data: 70%
Noise: 10
Batch size: 12
REGENERATE
FEATURES
Which properties do you want to feed in?
X1
X2
X12
X22
X1X2
sin(X1)
sin(X2)
4 HIDDEN LAYERS
6 neurons
6 neurons
6 neurons
3 neurons
This is the output from one neuron. Hover to see it larger.
The outputs are mixed with varying weights, shown by the thickness of the lines.
OUTPUT
Test loss 0.500
Training loss 0.500
Colors shows data, neuron and weight values.
Show test data
Discretize output