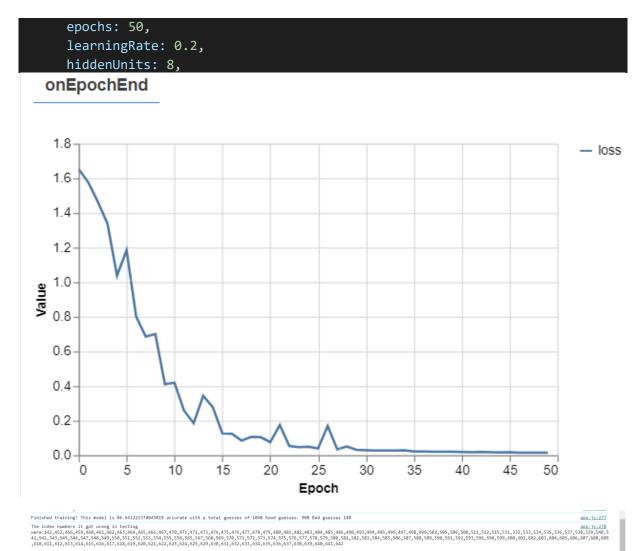Run 1:

```
    epochs: 50,
    learningRate: 0.2,
    hiddenUnits: 8,
```

Finished training! This model is 83.3969465648855% accurate with a total guesses of:1048 Good guesses: 874 Bad guesses 174                    app.js:277

The index numbers it got wrong in testing
were:142,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,5      app.js:278
08,509,510,511,512,514,515,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578
,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,6
34,635,636,637,638,639,640,641,642

Run 2:

```
    epochs: 50,
    learningRate: 0.2,
    hiddenUnits: 8,
```



onEpochEnd

Finished training! This model is 86.6412213740458l% accurate with a total guesses of:1048 Good guesses: 908 Bad guesses 140                    app.js:277

The index numbers it got wrong in testing
were:142,452,456,459,460,461,462,463,464,465,466,467,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,490,493,494,495,496,497,498,499,502,505,506,508,511,512,515,531,532,533,534,535,536,537,538,539,540,5      app.js:278
41,542,543,545,546,547,548,549,550,551,552,553,554,555,556,565,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,596,598,599,600,601,602,603,604,605,606,607,608,609
,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,629,630,631,632,633,634,635,636,637,638,639,640,641,642

Run 3:

```
    epochs: 50,
    learningRate: 0.2,
    hiddenUnits: 8,
```

# onEpochEnd

Finished training! This model is 93.3206106870289% accurate with a total guesses of:1048 Good guesses: 978 Bad guesses 70                                    app.js:277

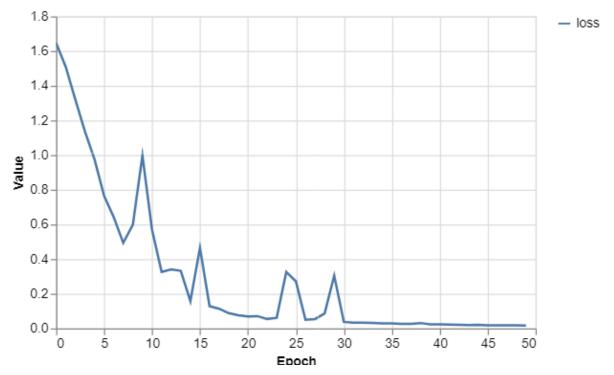The index numbers it got wrong in testing                                                                                                                   app.js:278
were:142,476,477,478,479,480,481,482,483,484,506,531,532,533,534,535,536,537,538,539,540,549,550,551,552,553,554,555,556,577,578,579,580,581,582,584,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,6
22,623,629,630,631,632,633,634,635,636,637,638,639,640,641,642

Run 4:

```
epochs: 50,
learningRate: 0.1,
hiddenUnits: 16,
```

## onEpochEnd

Finished training! This model is 89.31297709923665% accurate with a total guesses of:1048 Good guesses: 936 Bad guesses 112          app.js:277

The index numbers it got wrong in testing          app.js:278
were:452,456,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,497,506,531,532,533,534,535,536,537,538,539,540,541,545,546,548,549,550,551,552,553,554,555,556,571,572,5
73,574,575,576,577,578,579,580,581,582,584,585,586,589,590,596,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,629,630,631,632,633,634,635,636,637,638,639,640
,641,642
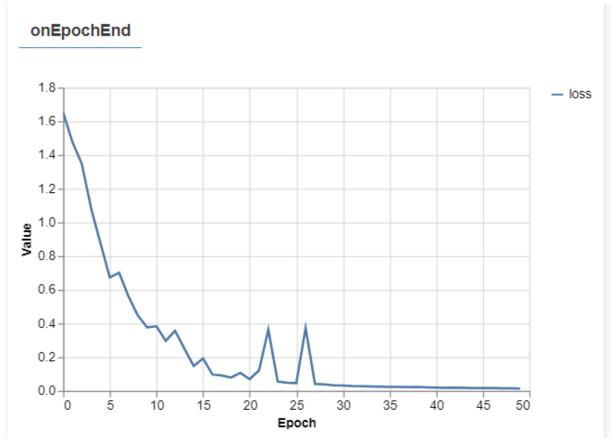
Run 5:

```
epochs: 50,
learningRate: 0.1,
hiddenUnits: 16,
```

## onEpochEnd

Finished training! This model is 87.21374045801527% accurate with a total guesses of:1048 Good guesses: 914 Bad guesses 134    app.js:277

The index numbers it got wrong in testing    app.js:278
were:452,455,456,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,494,496,497,505,506,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,5
50,551,552,553,554,555,556,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,596,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618
,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642

Run 6:

```
        epochs: 50,
        learningRate: 0.1,
        hiddenUnits: 16,
```

## onEpochEnd

Finished training! This model is 83.96946564885496% accurate with a total guesses of:1048 Good guesses: 880 Bad guesses 168    app.js:277

The index numbers it got wrong in testing    app.js:278
were:142,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,493,494,495,496,497,498,501,502,503,504,505,506,507,508,509,510,511,512,513,5
14,515,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550,551,552,553,554,555,556,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584
,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,6
40,641,642

Run 7:

```
epochs: 50,
learningRate: 0.8,
hiddenUnits: 4,
```

## onEpochEnd

Finished training! This model is 86.5458015267175% accurate with a total guesses of:1048 Good guesses: 907 Bad guesses 141                                    app.js:277

The index numbers it got wrong in testing                                                                                                                      app.js:278
were:142,143,452,455,456,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,493,494,495,496,497,498,502,505,506,508,511,515,531,532,533,534,535,536,537,538,539,540,5
41,542,545,546,547,548,549,550,551,552,553,554,555,556,565,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,596,598,599,600,601,602,603,604,605,606,607,608,609
,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,629,630,631,632,633,634,635,636,637,638,639,640,641,642

Run 8:

```
epochs: 50,
learningRate: 0.8,
hiddenUnits: 4,
```

onEpochEnd

Finished training! This model is 87.4045801526718% accurate with a total guesses of:1048 Good guesses: 916 Bad guesses 132                                    app.js:277
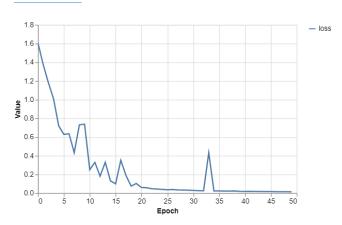
The index numbers it got wrong in testing                                                                                                                      app.js:278
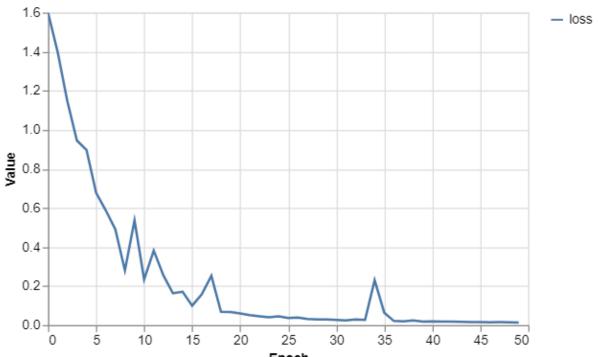were:141,142,143,452,456,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,493,494,495,496,497,498,502,503,504,505,506,508,531,532,533,534,535,536,537,538,539,540,5
41,545,546,548,549,550,551,552,553,554,555,556,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,593,596,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617
,618,619,620,621,622,623,624,625,629,630,631,632,633,634,635,636,637,638,639,640,641,642

Run 9:

```
    epochs: 50,
    learningRate: 0.8,
    hiddenUnits: 4,
```

Finished training! This model is 92.6526717557252% accurate with a total guesses of:1048 Good guesses: 971 Bad guesses 77                                    app.js:277
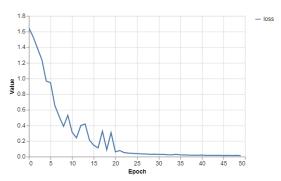The index numbers it got wrong in testing                                                                                                                   app.js:278
were:465,466,467,476,477,478,479,480,481,482,483,506,531,532,533,534,535,536,537,538,539,540,541,546,548,549,550,551,552,553,554,555,556,577,578,579,580,581,582,584,602,603,604,605,606,607,608,609,610,611,612,613,614,615,6
16,617,618,619,620,621,622,623,624,629,630,631,632,633,634,635,636,637,638,639,640,641,642

AI settings run 1-3 avg accuracy: 87.78%
AI settings run 4-6 avg accuracy: 86.82%
AI setting run 7-9 avg accuracy: 88.33%

Notes:

The 400-600 section seems to consistantly be misinterperated by the AI.

Actions taken:

- Made it label all the poses it got wrong
  - Was mostly run-right

The poses it got wrong in testing were:run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-    app.js:282
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right

Changes:

      -Deleted all my learning data for run-right (-222 entries)

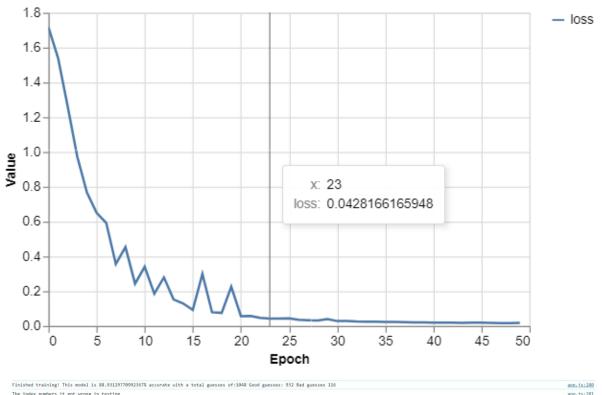      -Added new data (+403 entries)

Results from changes:
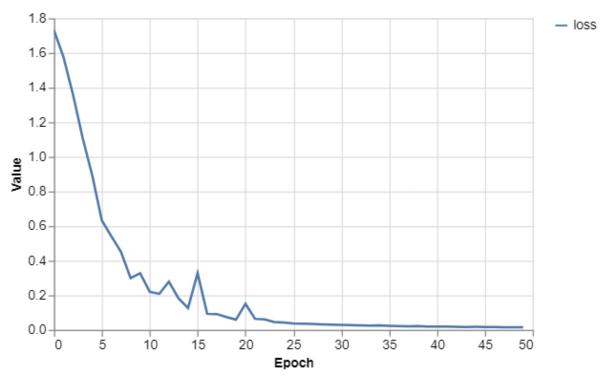
Run 1:

## onEpochEnd

Finished training! This model is 88.9312977099236% accurate with a total guesses of:1048 Good guesses: 932 Bad guesses 116                app.js:280

The index numbers it got wrong in testing            app.js:281
were:420,421,473,474,475,476,477,478,479,480,481,482,483,484,485,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,531,532,533,534,535,536,537,538,539,540,541,548,549,550,551,552,553,554,555,556,567,568,5
69,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,629,630,631,632,633,634,635,636
,637,638,639,640,641,642

The poses it got wrong in testing were:run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-        app.js:282
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right

Run 2:

## onEpochEnd

Finished training! This model is 86.83206106870229% accurate with a total guesses of:1048 Good guesses: 910 Bad guesses 138                                                                                                          app.js:280

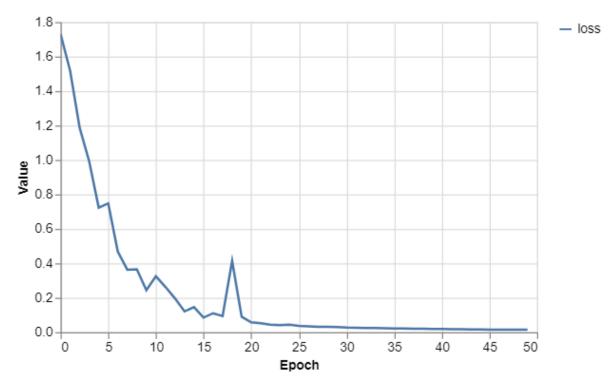The index numbers it got wrong in testing                                                                                                                                                                                            app.js:281
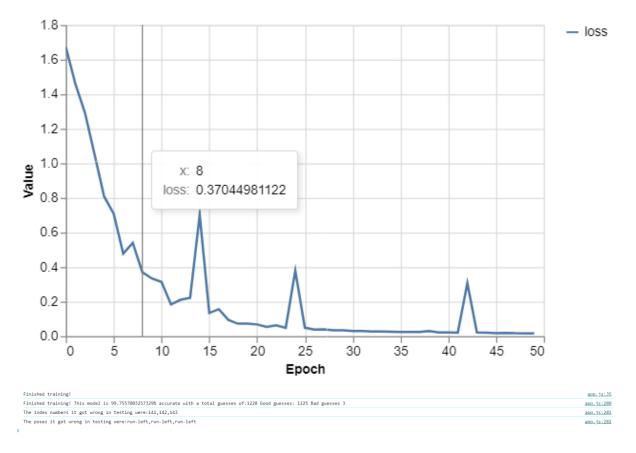were:452,456,459,460,462,463,464,465,466,467,468,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,493,494,495,496,497,498,499,502,503,504,505,506,508,531,532,533,534,535,536,537,538,539,540,541,545,546,547,5
48,549,550,551,552,553,554,555,556,565,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,598,599,600,601,602,603,604,605,606,607,608,609,610,611,612,613
,614,615,616,617,618,619,620,621,622,623,624,625,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642

The poses it got wrong in testing were:run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-                         app.js:282
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right

Run 3:

## onEpochEnd

Finished training! This model is 86.92748091603053% accurate with a total guesses of:1048 Good guesses: 911 Bad guesses 137          app.js:280

The index numbers it got wrong in testing          app.js:281
were:452,456,459,464,465,466,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,490,491,492,493,494,495,496,497,498,499,500,501,502,503,504,505,506,507,508,509,511,515,531,532,533,534,535,536,537,538,539,540,5
41,545,546,547,548,549,550,551,552,553,554,555,556,565,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,596,598,599,600,601,602,603,604,605,606,607,608,609,610,611
,612,613,614,615,616,617,618,619,620,621,622,623,624,629,630,631,632,633,634,635,636,637,638,639,640,641,642

The poses it got wrong in testing were:run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-          app.js:282
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-
right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right,run-right

Results changes:

Avg accuracy: 87.56%

Notes:
Replacing trainingdata had minimal changes in accuracy, testing data is presumably the problem.
Replacing trainingdata had minimal changes in training, spikes feel as common as usual and in both cases it breaks the 0,2 around 10-15 consistantly.
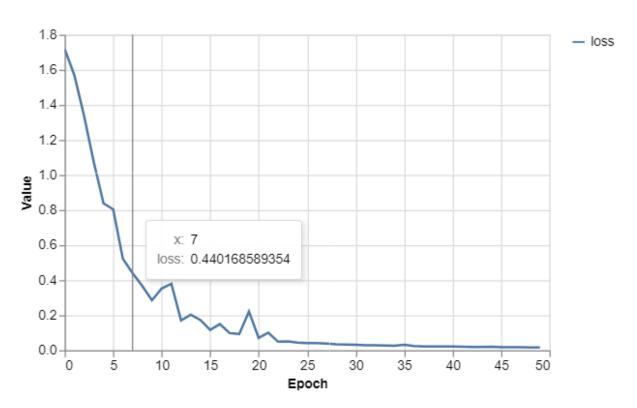
NEW CHANGES:
Replaced run-right training data to see if training data is bad. (-223 / +403)
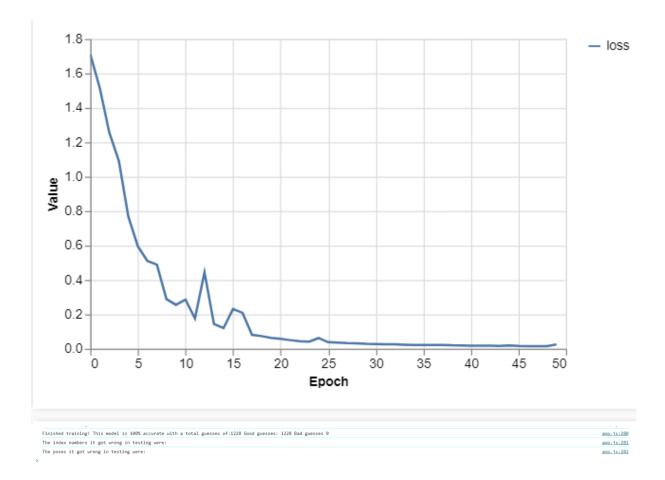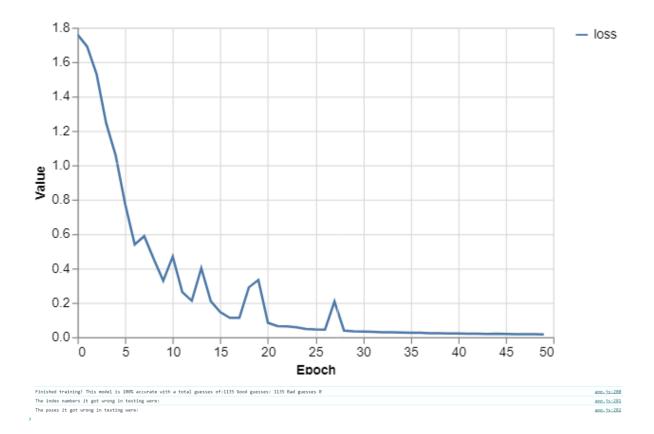

RESULTS NEW CHANGES:

Run 1:

## onEpochEnd
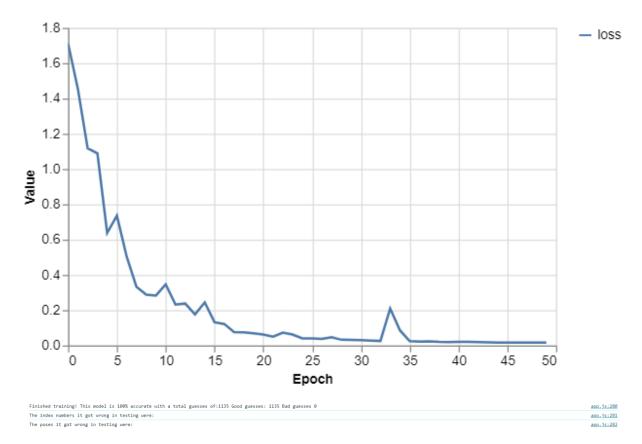


x: 8
loss: 0.37044981122

Finished training!                                                                                                    app.js:35
Finished training! This model is 99.7557003257329% accurate with a total guesses of:1228 Good guesses: 1225 Bad guesses 3   app.js:280
The index numbers it got wrong in testing were:141,142,143                                                            app.js:281
The poses it got wrong in testing were:run-left,run-left,run-left                                                     app.js:282

Run 2:



x: 7
loss: 0.440168589354

Run 3:

Cause for suspicious high accuracy: Accidentally copied the new training data for run-right in the test-data instead of the new test data. Fixed this. (-403 / +310)
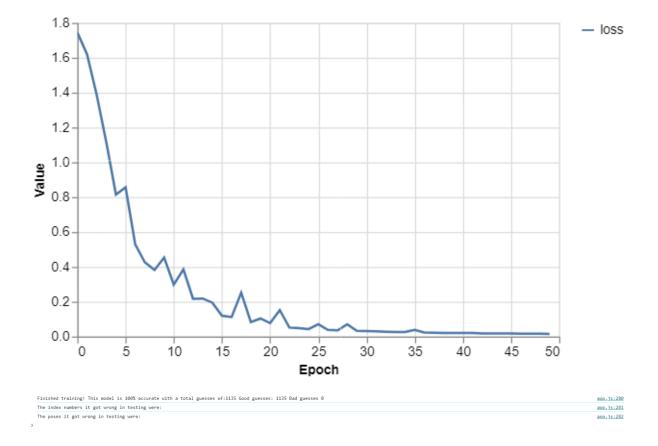
NEW NEW RESULTS"

Run 1:

## onEpochEnd



Finished training! This model is 100% accurate with a total guesses of:1135 Good guesses: 1135 Bad guesses 0    app.js:280
The index numbers it got wrong in testing were:    app.js:281
The poses it got wrong in testing were:    app.js:282
>

Run 2:

## onEpochEnd



Finished training! This model is 100% accurate with a total guesses of:1135 Good guesses: 1135 Bad guesses 0                    app.js:280
The index numbers it got wrong in testing were:                                                                              app.js:281
The poses it got wrong in testing were:                                                                                      app.js:282

Run 3:

# onEpochEnd



Finished training! This model is 100% accurate with a total guesses of:1135 Good guesses: 1135 Bad guesses 0    app.js:280
The index numbers it got wrong in testing were:    app.js:281
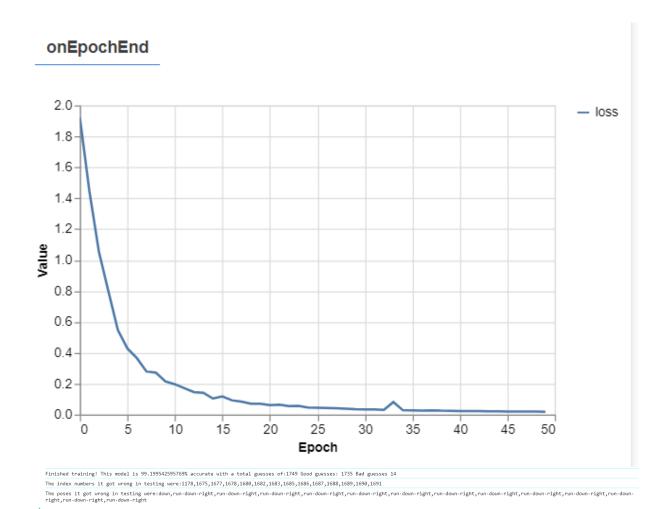The poses it got wrong in testing were:    app.js:282

>

Avg acc: 100%

Cause: I build the best machine learning thing to ever exist.

Real cause: Unknown.

Changes:
-Added extra poses (down, run-down-left, run-right)

# onEpochEnd



Finished training! This model is 99.199542595769% accurate with a total guesses of:1749 Good guesses: 1735 Bad guesses 14

The index numbers it got wrong in testing were:1178,1675,1677,1678,1680,1682,1683,1685,1686,1687,1688,1689,1690,1691

The poses it got wrong in testing were:down,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right,run-down-right

I chose to continue with this model since its acc is pretty good.