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Playground tensor flow

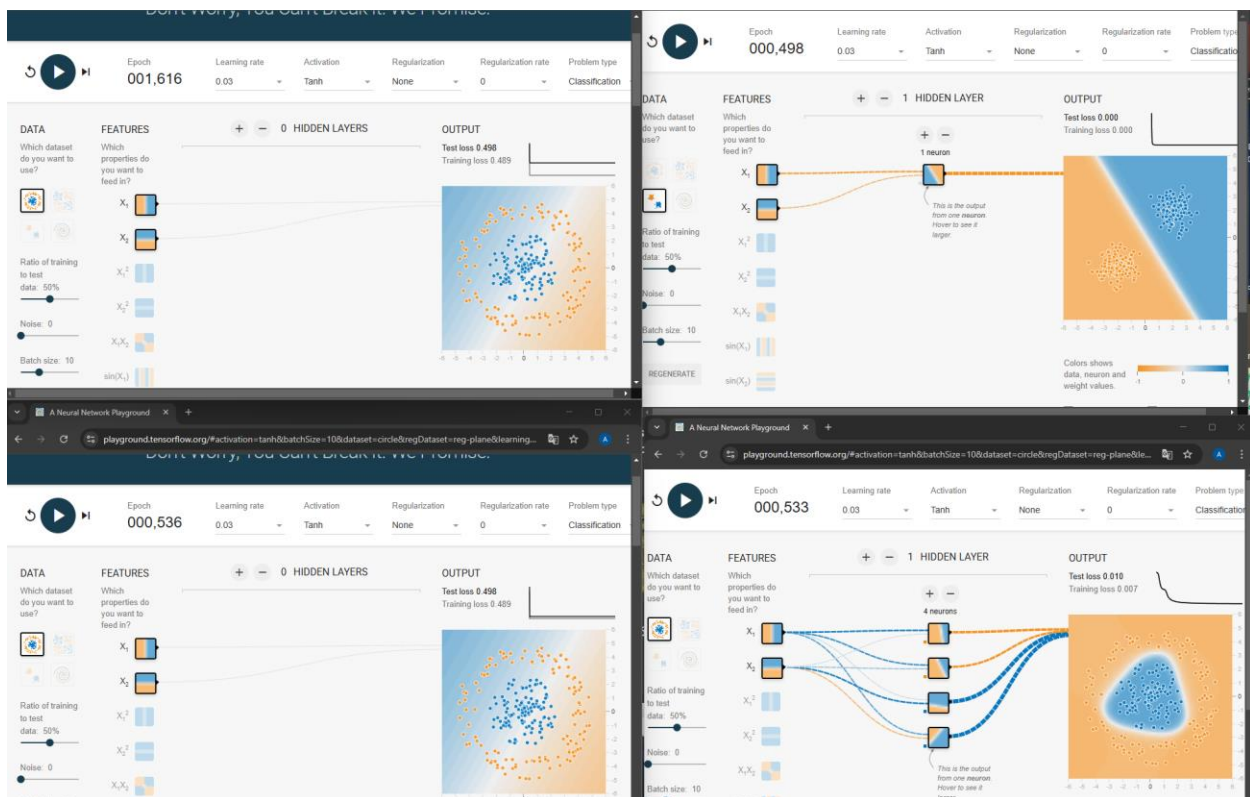
Runs Playground tensor flow

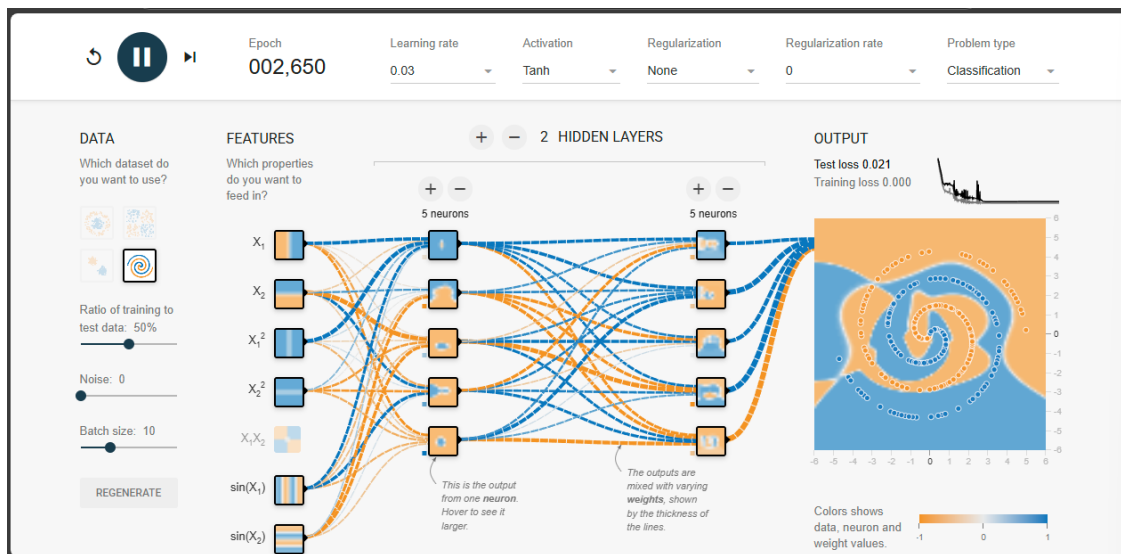
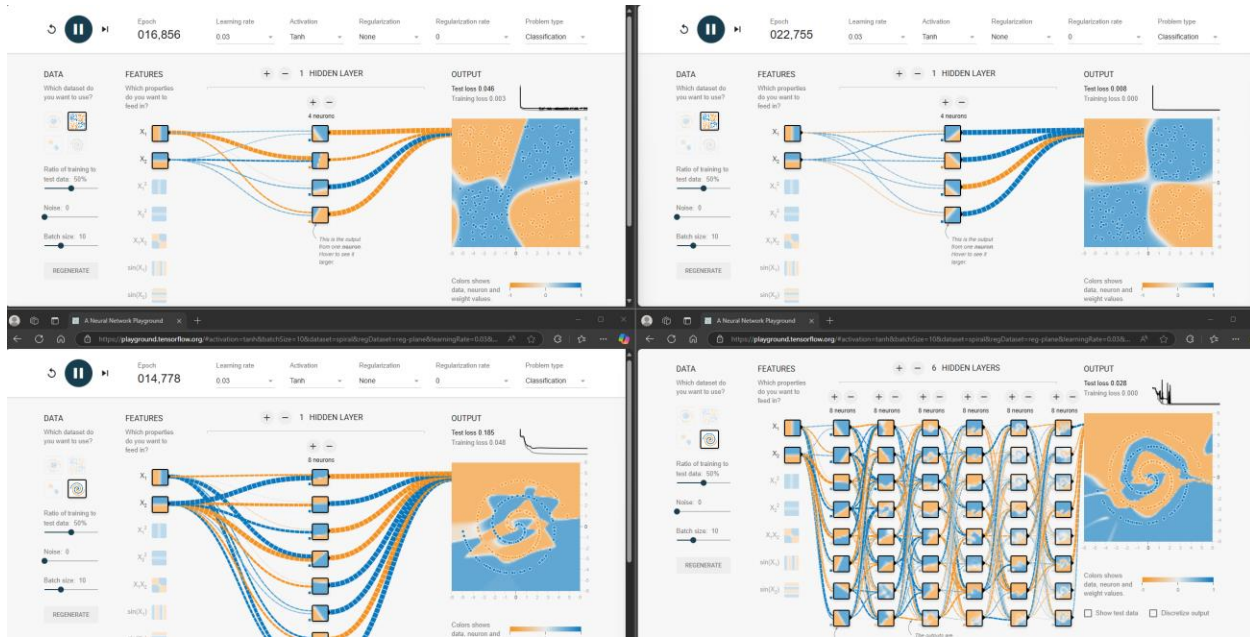
Tanh:

Looked to be the overall best performance although intuition is that it looks way more computational expensive.

An interesting case is exercise 11 where tanh outperformed ReLu,

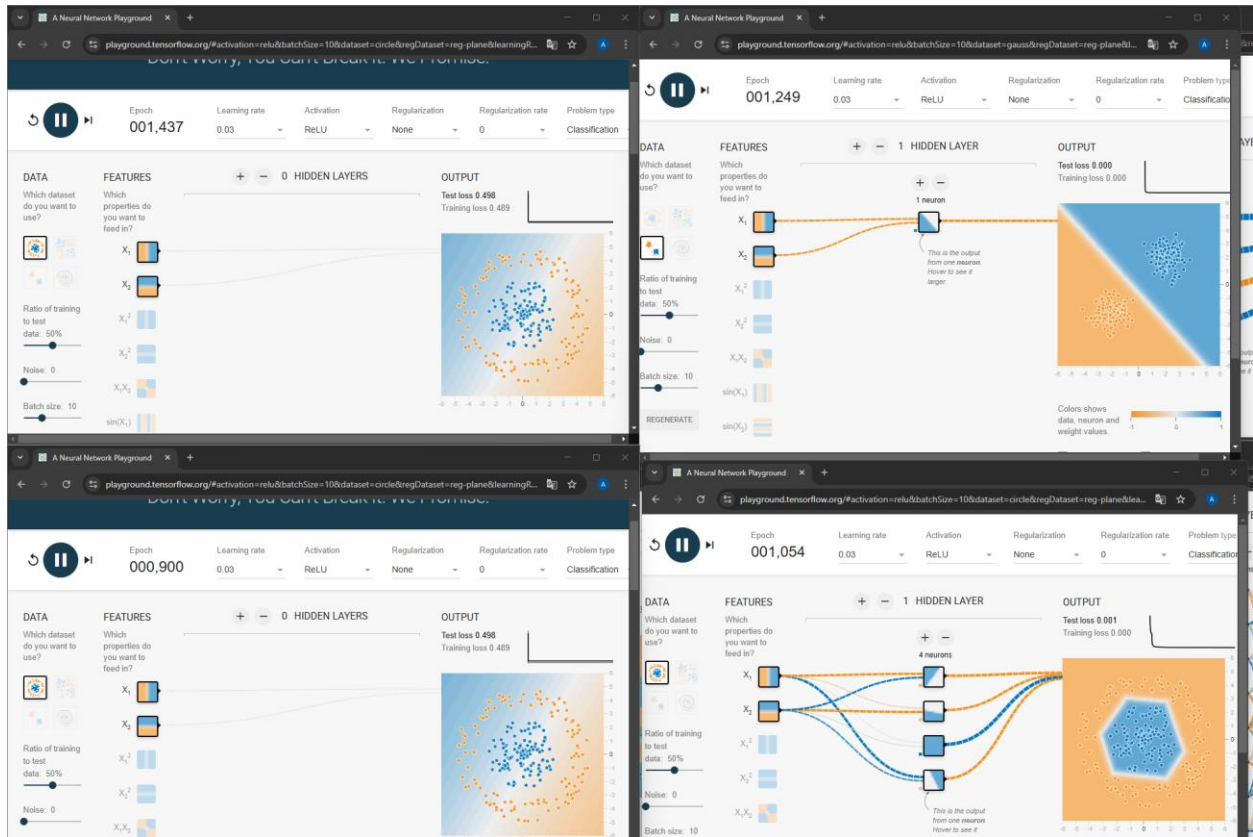
This doesn't imply ReLu is not capable of solving data set, it might be the case that ReLu could still improve performance with additional feature engineering.

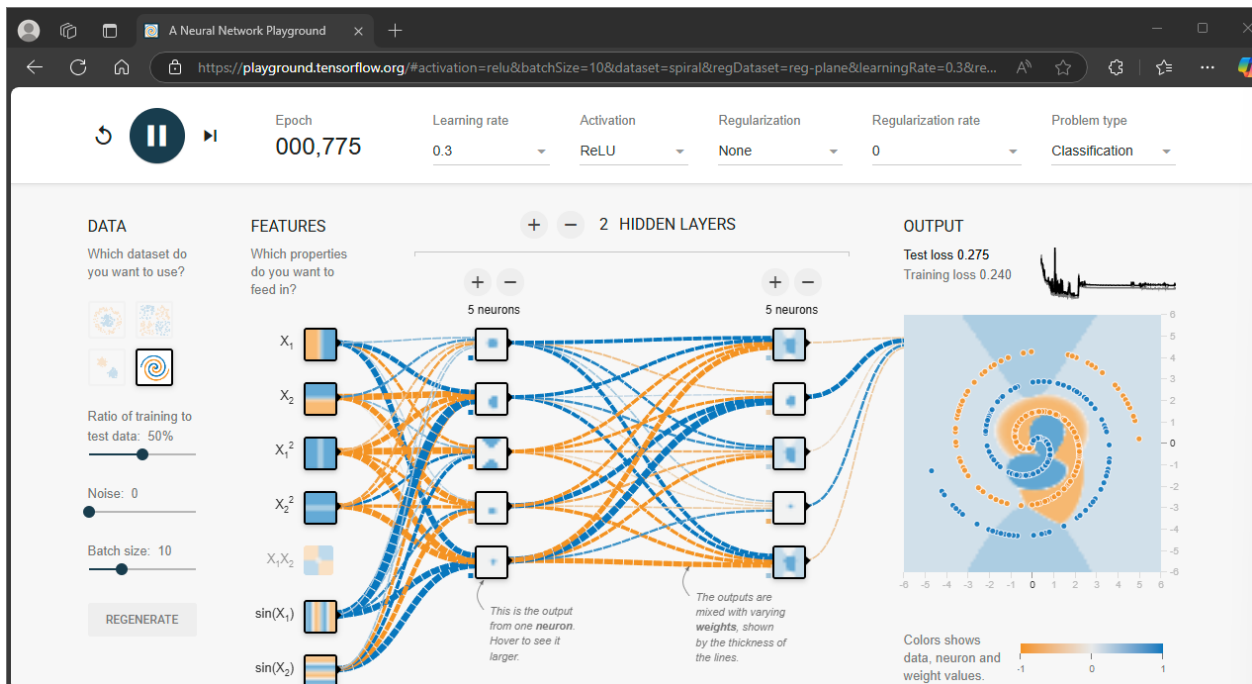
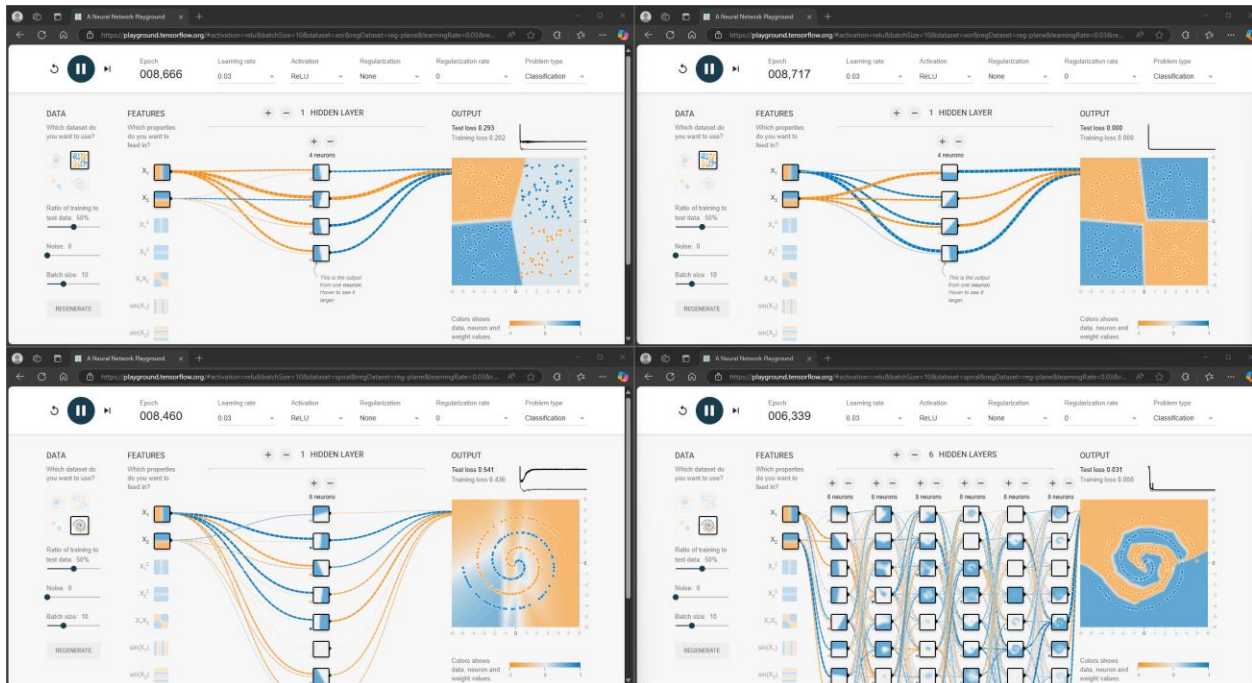




Relu

Relu has more sharp more aggressive decision boundary than TanH this clearly limited the approximation of ReLu on more interesting pattern choices.





Linear

I won't expect much here, a linear function will just rotate the input space one layer after the other

This is the case for each training pattern

