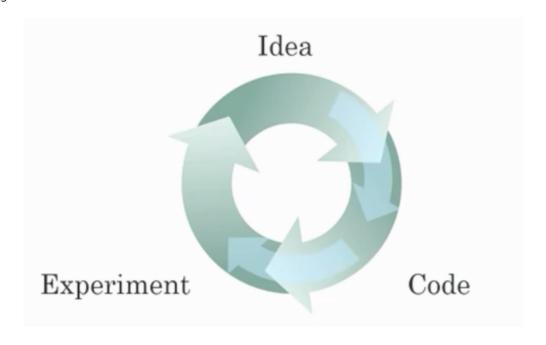
## Introduction to deep learning

Quiz, 10 questions

1 point		
1. What d	oes the analogy "Al is the new electricity" refer to?	
	Al is powering personal devices in our homes and offices, similar to electricity.	
	Through the "smart grid", AI is delivering a new wave of electricity.	
	Similar to electricity starting about 100 years ago, Al is transforming multiple industries.	
	Al runs on computers and is thus powered by electricity, but it is letting computers do things not possible before.	
	of these are reasons for Deep Learning recently taking off? (Check the tions that apply.)	
	We have access to a lot more data.	
	We have access to a lot more computational power.	
	Deep learning has resulted in significant improvements in important applications such as online advertising, speech recognition, and image recognition.	
	Neural Networks are a brand new field.	

3.

Introduction deal deep learn itag ting over different ML ideas. Which of the Quiz, 10 questions statements below are true? (Check all that apply.)



Being able to try out ideas quickly allows deep learning engineers to iterate more quickly.
Faster computation can help speed up how long a team takes to iterate to a good idea.
It is faster to train on a big dataset than a small dataset.
Recent progress in deep learning algorithms has allowed us to train good models faster (even without changing the CPU/GPU hardware).

1 point

4

When an experienced deep learning engineer works on a new problem, they can usually use insight from previous problems to train a good model on the first try, without needing to iterate multiple times through different models. True/False?



## Introduction to deap learning

Quiz, 10 questions

1 point

5.

Which one of these plots represents a ReLU activation function?

Figure 1:

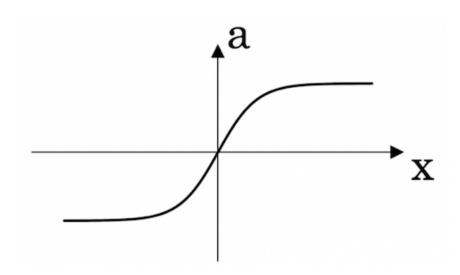
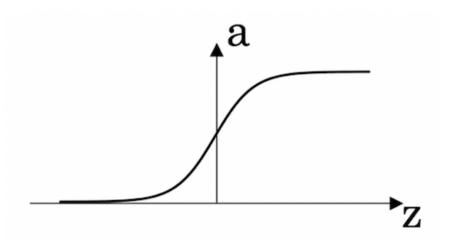


Figure 2:



## Introduction to despote arning

Quiz, 10 questions

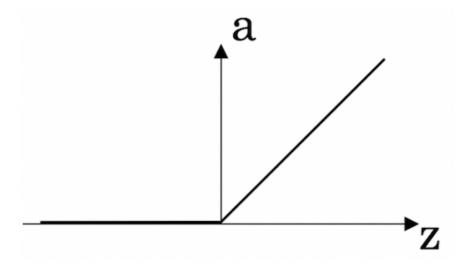
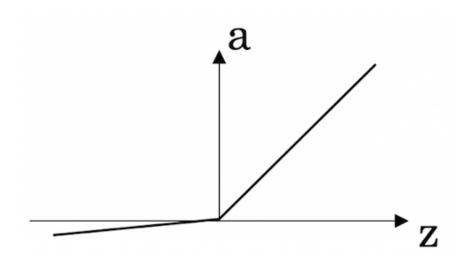


Figure 4:



1 point

6.

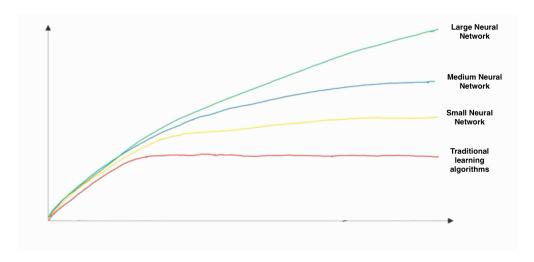
	mages for cat recognition is an example of "structured" data, because it is represented as a structured array in a computer. True/False?
Introduction	to deep learning
Quiz, 10 questions	True
	False
	1 point
	7.
,	A demographic dataset with statistics on different cities' population, GDP per capita, economic growth is an example of "unstructured" data because it
•	contains data coming from different sources. True/False?
	True
	C False
	1 point
	8.
	Why is an RNN (Recurrent Neural Network) used for machine translation, say translating English to French? (Check all that apply.)
	It can be trained as a supervised learning problem.
	It is strictly more powerful than a Convolutional Neural Network (CNN).
	It is applicable when the input/output is a sequence (e.g., a sequence of words).
	RNNs represent the recurrent process of Idea->Code->Experiment->Idea->

## Introduction to deep learning

Quiz, 10 questions

9.

In this diagram which we hand-drew in lecture, what do the horizontal axis (x-axis) and vertical axis (y-axis) represent?



- x-axis is the performance of the algorithm
  - · y-axis (vertical axis) is the amount of data.
- x-axis is the amount of data
  - y-axis (vertical axis) is the performance of the algorithm.
- x-axis is the input to the algorithm
  - y-axis is outputs.
- x-axis is the amount of data
  - · y-axis is the size of the model you train.

1 point

10.

Assuming the trends described in the previous question's figure are accurate (and hoping you got the axis labels right), which of the following are true? (Check all that apply.)