Review quizzes

- Explain the similarities and differences between traditional supervised learning and deep supervised learning
- How to train a deep feedforward neural network?
- What is "vanishing gradient"?
- What is RELU?

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Summary of DNN techniques

- Training a network by backpropagation
- When networks become "deep", simple SGD may be problematic, because of vanishing and exploding gradient
- Many techniques were proposed to (partially) solve the problem to accelerate learning
 - Weight initialization
 - Activation function design
 - Optimizer design

– ...

Final project

- You should submit three pieces
 - A project report
 - Better follow the standard paper format
 - The presentation slides
 - A single compressed file containing source code with instructions describing how to run it
- Presentation date: 1/5
- Final project report due: 1/11 (23:59:59)
 - You may still update your results after presentation

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