edX　　**Microsoft:** DAT210x Programming with Python for Data Science　　　**Help**

⊘ **Outline** > 1. The Big Picture > Dive Deeper > Further Reading

Further Reading

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Dive Deeper

In this module, you learned the big picture behind what data science, data analysis, and machine learning really are, and then took a closer peek at the data analysis process. As you progress through each lecture and especially at the end of each module, remember to jot down a few notes on your course map. There should already be a few important annotations on it:

- **Collecting**: Have a data driven question.
- **Collecting**: The types of questions and problems solvable with machine learning.
- **Collecting**: Collect as much data as you possibly can, focusing on samples.
- **Modeling**: Unsupervised, and supervised learning, and how they're different.

In the future, we won't summarize the points so be sure to take notes as you go! Another good idea is to start a running log of problems you want to solve. Just keep jotting them down as you think of them, and you'll have a backlog of cool ideas to tackle in the future. With a firmly defined problem you want to squash, you'll be better posed to hunt for related data.

The quizzes that go with each lecture are intended to ensure you have a firm grasp on the topic covered. Taking them will help you keep the knowledge you've gained. And finally, each module will have a *dive deeper* section like this one, with extra resources you can use to further hone your skills, time permitting.

Python Review

- EdX - DAT208x: Introduction to Python for Data Science
- EdX - CSE1309x: Learn to Program using Python

Machine Learning

- What Machine Learning Can and Can't Do
- What Kind of Problems Can Machine Learning Solve
- On Supervised, Unsupervised, and Reinforcement Learning

Developing Machine Learning

- CS229 Andrew Ng's Machine Learning Course | Online Course Materials
- Machine Learning Summer School