

# Getting Started

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## 1 Requirements

- Computer Science knowledge
  - Algorithms
  - Data structures
  - Turing machines
  - Databases
- Mathematics
  - Functions
  - Set theory
  - Logic
  - Statistics
  - Proofs
  - Formal systems
  - Discrete mathematics
  - Signal processing
  - Topology
  - Optimization
- Programming experience
- Philosophy (foundations)
- A desire to learn
- Be open to all ideas (even the crazy ones!)

## 2 Suggestions

- Identify practical goals as soon as possible. It will help you better internalize what you'll read along the way.

## 3 Suggested readings

### 3.1 Pre-requisites

### 3.2 Essentials

- [Artificial Intelligence: A Modern Approach](#)
- [OpenCog Glossary](#)

### 3.3 Advanced

### 3.4 Uncategorized

- [The Essential Turing](#)

- Universal Artificial Intelligence - Sequential Decisions Based on Algorithmic Probability
- Christopher Michael Langan - The Cognitive-Theoretic Model of the Universe: A New Kind of Reality Theory
- Shane Legg - Machine Super Intelligence
- Manna

### 3.5 AGI researcher suggested

- <https://sites.google.com/site/narswang/home/agi-introduction/agi-education>
- <http://wp.goertzel.org/agi-curriculum/>
- <http://www.hutter1.net/ai/introref.htm>

## 4 References

- <http://p.migdal.pl/2017/04/30/teaching-deep-learning.html>