**AlphaGo vs. AlphaGo Zero**

AlphaGo is a computer program that plays board games I.e. chess. It was developed by DeepMind Technologies and later acquired by Google. It is an AI agent that learned how to play chess from human provided chess game data. This program played matches against chess masters like Fan Hui, Lee Sedol. AlphaGo uses Monte Carlo tree search algorithm to find moves based on knowledge previously learned by machine learning techniques. In the training session it played against multiple chess masters to gain experience and knowledge. AlphaGo Zero is successor to AlphaGo and a more powerful version. AlphaGo Zero is the most powerful AI agent that plays board games. AlphaGo Zero was developed without using data from human games. In order to make this agent more powerful the developer decided that the agent will learn by playing with itself. So the agent played with itself and gained experience and knowledge. For this reason AlphaGo Zero surpassed AlphaGo in just three days and became the most powerful board game AI agent of all times in just 40days. Still it’s the most powerful board game AI agent.

**Turing Test in AI**

Natural Language Processing modules are the result of turing test. Turing test was to test if a computer can be intelligent like humans. Nowadays computer can interpret languages translate them and understand commands. All of this is the result of turing test. Turing test was introduced by Turing in his 1950 paper. Due to that many researchers worked on it and now in 2021 computer so much smart that you can have interactive conversation with a computer. The Turing test is based on a party game "Imitation game," with some modifications. This game involves three players in which one player is Computer, another player is human responder, and the third player is a human Interrogator, who is isolated from other two players and his job is to find that which player is machine among two of them. This concept took off and many people were interested in making computer intelligent and now we can see many intelligent agent like NeuralTalk2, ChatBot, Alexa, Siri etc.

**Deep Blue**

Deep Blue was the very first AI agent that could play board game like chess and a very first agent to defeat a grand master. It was designed by IBM in 1990. It can evaluate 200 million chess positions per second. It was the predecessor to AlphaGo.

**IBM Watson**