















- Computers finally got there: AlphaGo!
  Made by Google DeepMind in London
- 2015: Beat a professional Go player without handicaps
- 2016: Beat a 9-dan professional without handicaps
- 2017: Beat Ke Jie, #1 human player
- 2017: DeepMind published AlphaGo Zero
- No human games data
- Learns from playing itself
- Better than AlphaGo in 3 days of playing



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- $w(n) = \text{sum of the$ **point value**of white's pieces
- b(n) = sum of black's



























































