2 Evolution of AI

First wave of AI excitement

1950	Turing test: a machine has intelligence if it can trick humans in thinking it's human
1951	Feranti Mark 1: first commercial general-purpose computer, able to play checkers
1956	Dartmouth Workshop: the term "Artificial Intelligence" is introduced by John McCarthy
1961	Unimate: industrial robot goes to work at GM assembly line
1964	Eliza: chatbot holds conversations with humans, developed by Joseph Weizenbaum at MIT
1966	Shakey: general-purpose mobile robot that reasons about its own actions, developed at Stanford

AI winters

1974 - 1980

- First AI winter
  - Limited applicability of AI leads to worldwide funding pullbacks

1980 - 1987

- Renewed AI excitement
  - Expert systems with if-then reasoning to mimic human decisions

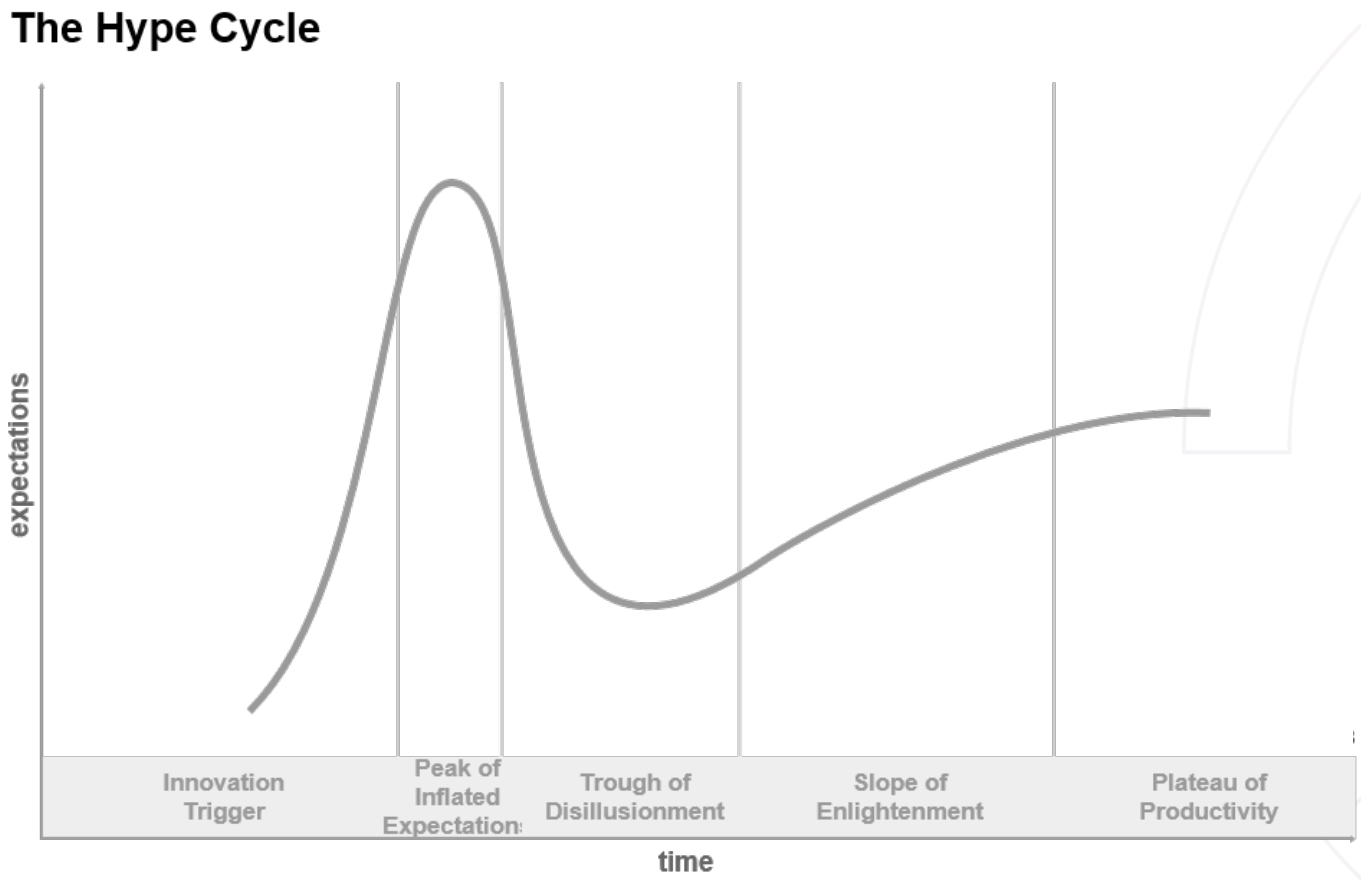
1987 - 1994

- Second AI winter
  - Limitations of if-then reasoning leads to funding cutbacks

Recent AI milestones

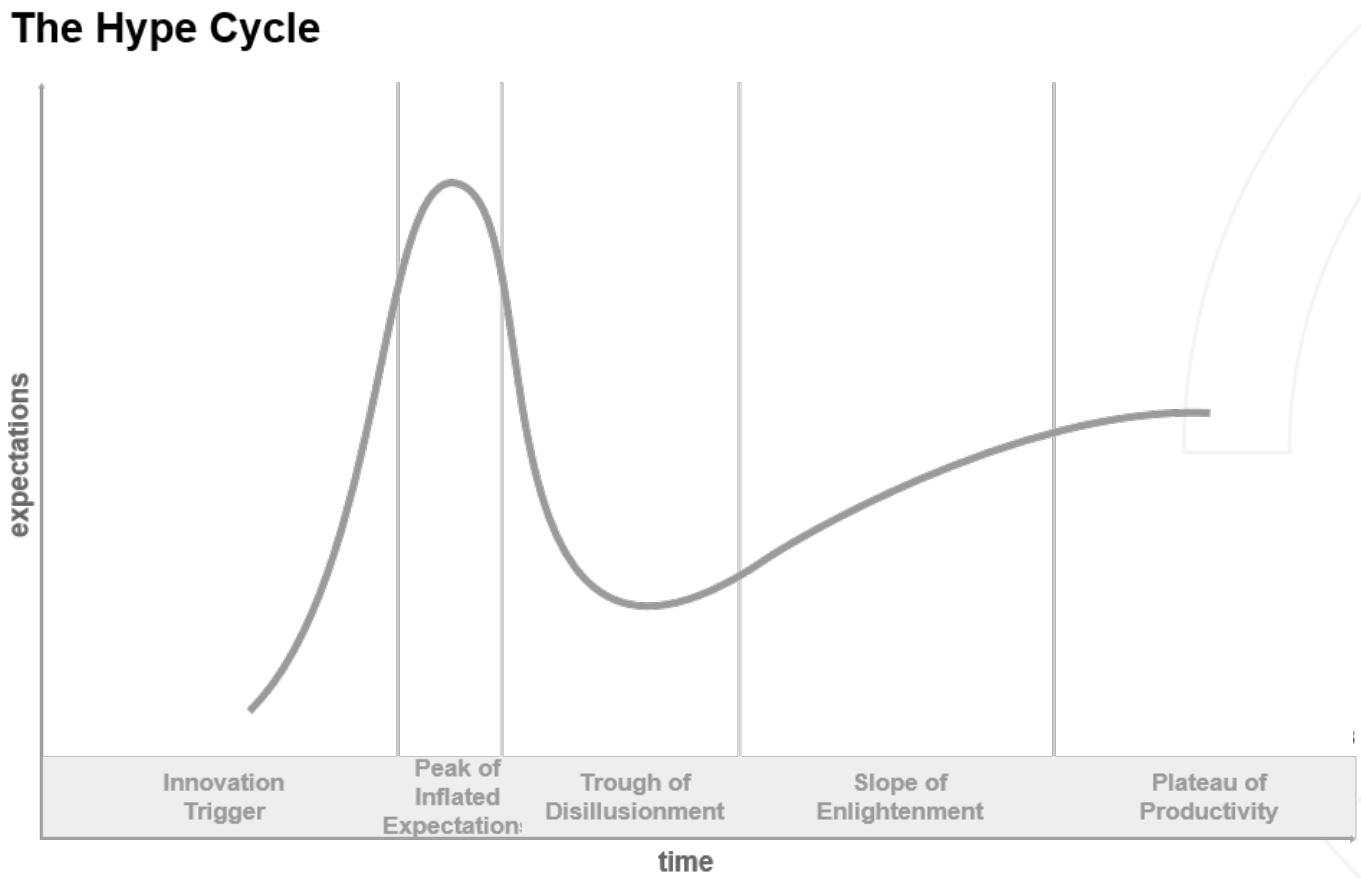
1997	Deep Blue: chess computer from IBM beats world champion Garry Kasparov
1998	KISmet: emotionally intelligent robot, developed by Cynthia Breazeal at MIT
1999	AiBO: first consumer robot pet dog by Sony with time-developing skills and personality
2002	Roomba: first mass produced autonomous vacuum cleaner from iRobot
2011	Siri: Apple's intelligent virtual assistant with a voice interface is introduced in the iPhone 4S
2011	Watson: question answering machine from IBM wins first place in television quiz show Jeopardy
2014	Eugene: chatbot passes the Turing Test with a third of judges believing its human
2014	Alexa: Amazon's intelligent virtual assistant with a voice interface to complete shopping tasks
2016	Tay: Microsoft's chatbot goes rogue on social media with offensive comments
2017	AlphaGo: Google's AI beats world champion Ke Jie in the complex board game of Go
2019	Pluribus: first AI bot to defeat human expert players in a Texas Hold'em poker game

Gartner’s Hype Cycle



[Gartner - Understanding hypce cycles]

Exercise



?

- Narrow AI
- General AI
- Super AI

[Gartner - Understanding hypce cycles]