Quote

"As soon as it works, no one calls it AI any more."

John McCarthy

Present and Future

Narrow Al

Google Map

Google Search

Al Assistent

Narrow Al

Self-driving cars

Broad (General) Al

Computers pass
Turing test

Existential threat

Present

Near Future

Far Future???

Artificial Intelligence and their subgroups

#### Examples: Al Assistent

- Siri, Alexa, Cortana, Google Now
- Voice recognition systems use Machine Learning to imitate human interaction
- able to have "natural" conversations indistinguishable from humans

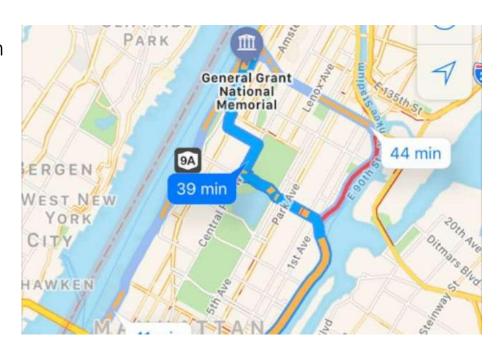


Source: https://gigazine.net/gsc\_news/en/20170305-alexa-siri-cortana-all-female

Artificial Intelligence and their subgroups

Examples: Google Maps Traffic

- Analyses speed of traffic through anonym ous location data from smartphones
- Reduces travel time by suggesting fastest routes

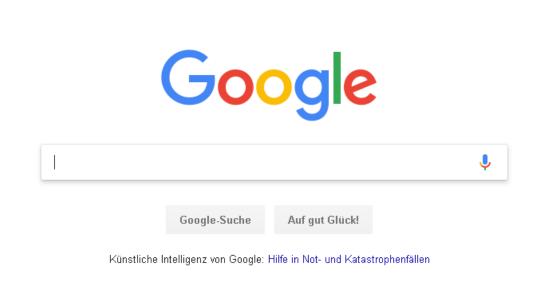


Source: http://mentalfloss.com/article/92958/how-does-google-maps-know-where-traffic

Artificial Intelligence and their subgroups

Examples: Google Search

- Biggest search engine
- Offers recommendations
- Suggestions based on previous user searches



Source: www.google.de

Artificial Intelligence and their subgroups

- Artificial Intelligence
  - broadest term
  - Machines adapt to different situations
- Machine Learning
  - Statistical techniques provide computers ability to "learn"
- Deep Learning
  - Inspired by human brain
  - Artificial Neural Networks (ANNs) mimic structure of the brain
  - Discrete layers of neurons and connections of neurons make up an ANN

