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The Path to Machine Intelligence: Challenges and Concerns along the Way

Cassio Dreyfuss
Research VP, Gartner



Human development takes time,
faces a lot of incidents and accidents
along the way, but people generally
do not complain about it

*People generally have no trouble folding socks or
picking up water glasses because we've gone through
“a big data collection process” called childhood.*

Stefanie Tellex

Computer Science Professor, Brown University,
MIT Technology Review, March/April 2016



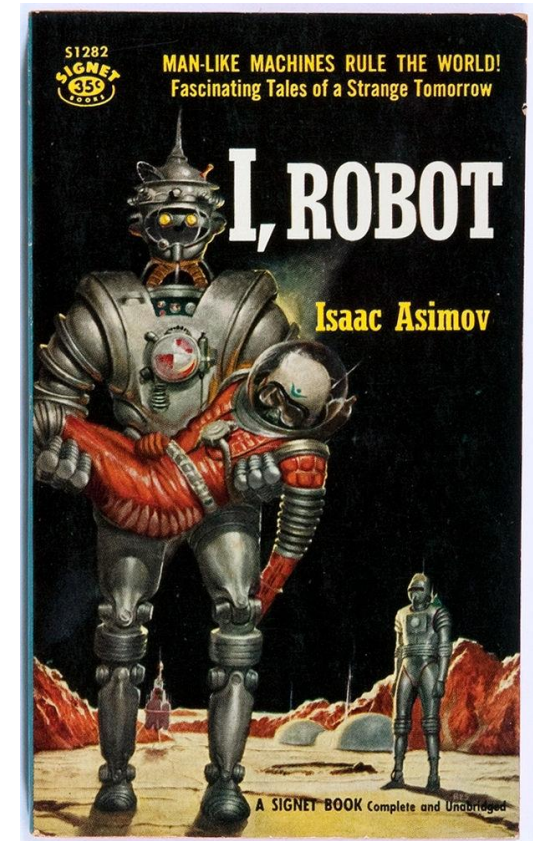
MAN-LIKE MACHINES RULE THE WORLD

Fascinating Tales of a Strange Tomorrow

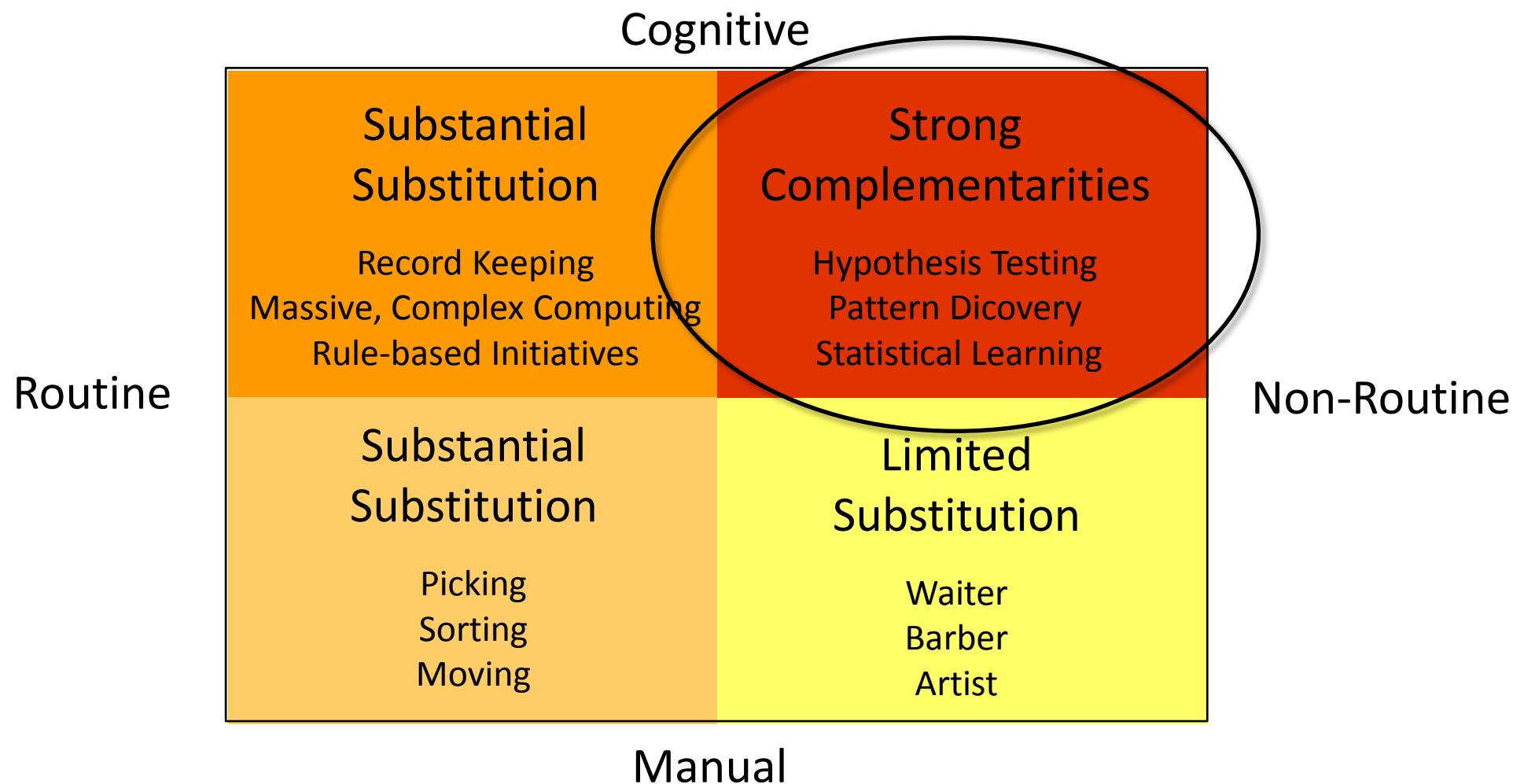
From the Handbook of Robotics, 56th Edition, 2058 AD:

- 1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.*
- 2. A robot must obey the orders given it by human beings except where such orders would conflict with the First Law.*
- 3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Laws*

Isaac Asimov, 1950



The Nature of Tasks: A Simple Framework Shows Where We Are Going





Technology evolution yields powerful tools and techniques
The road ahead promises amazing business opportunities
We must add moral and ethical concerns to our approach



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