

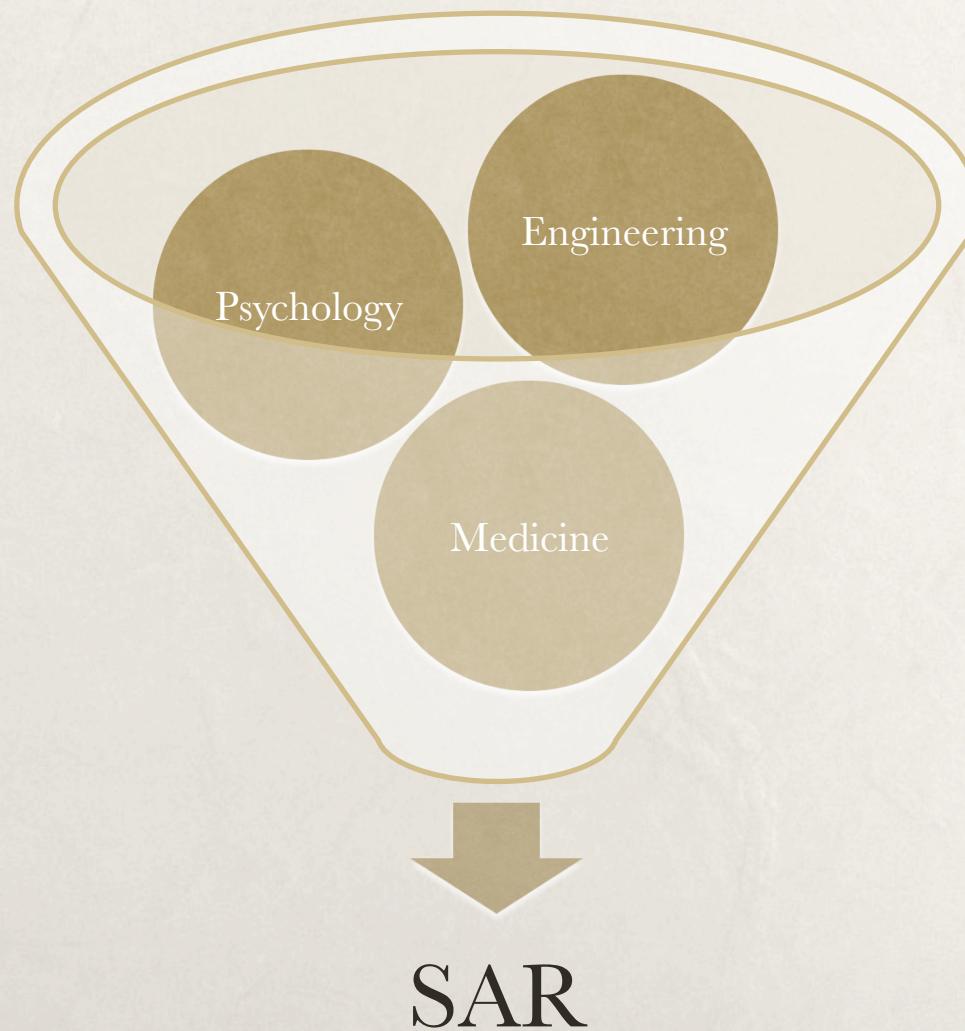
Appealing Machines

Socially Assistive Robotics (SAR) in Healthcare System



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What is SAR?



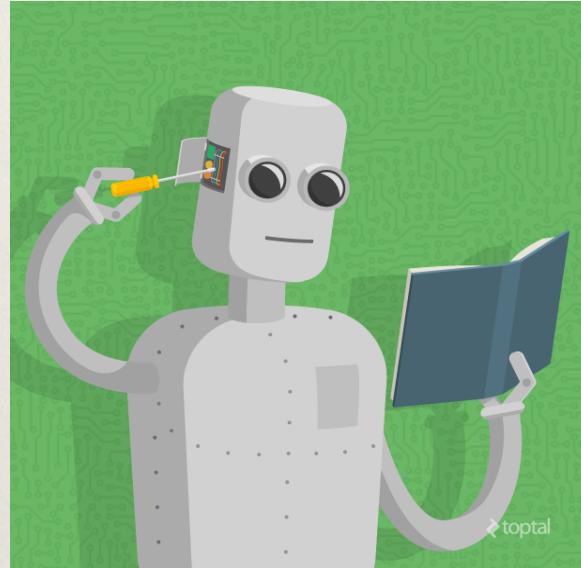
Purpose of SAR

- * Make healthcare available for everyone, especially low-income patients
- * Minimum wage in Los Angeles is 12 dollars per hour.



Post-Stroke Rehabilitation

- * Stroke survivors incur significant costs associated with their stroke for the first 12 months.*



*Source: National Center for Biotechnology Information, U.S. National Library of Medicine, 2011

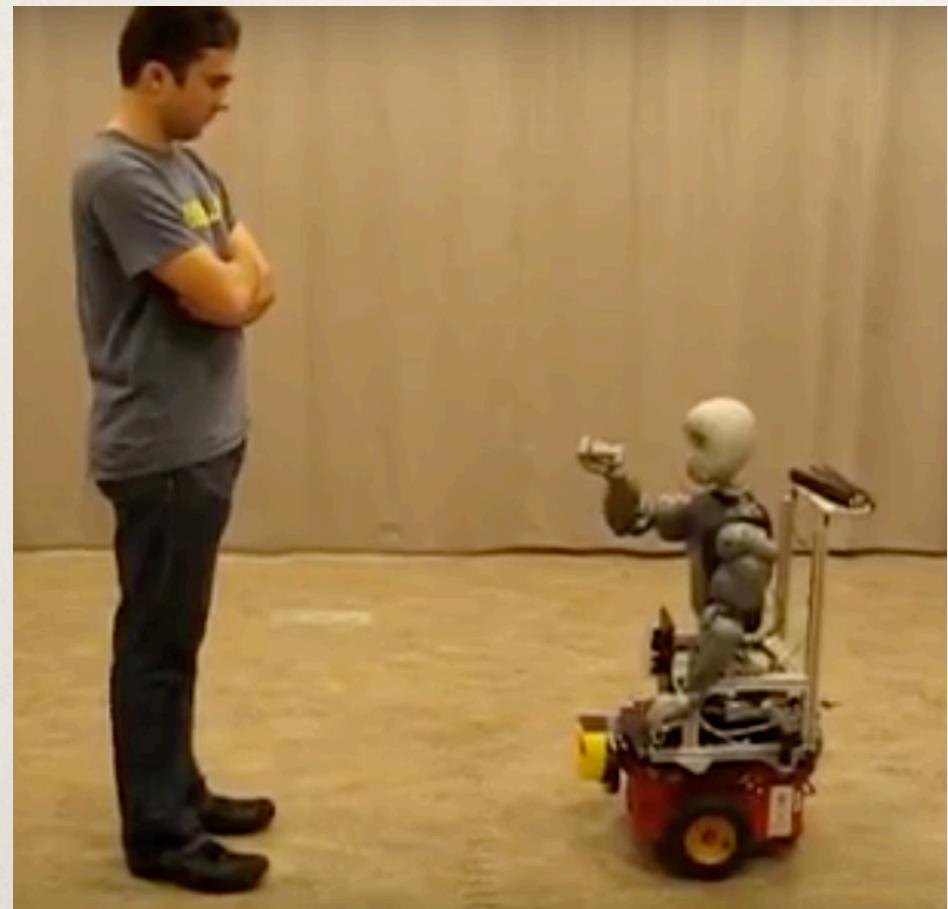
First Year Post-Stroke Costs



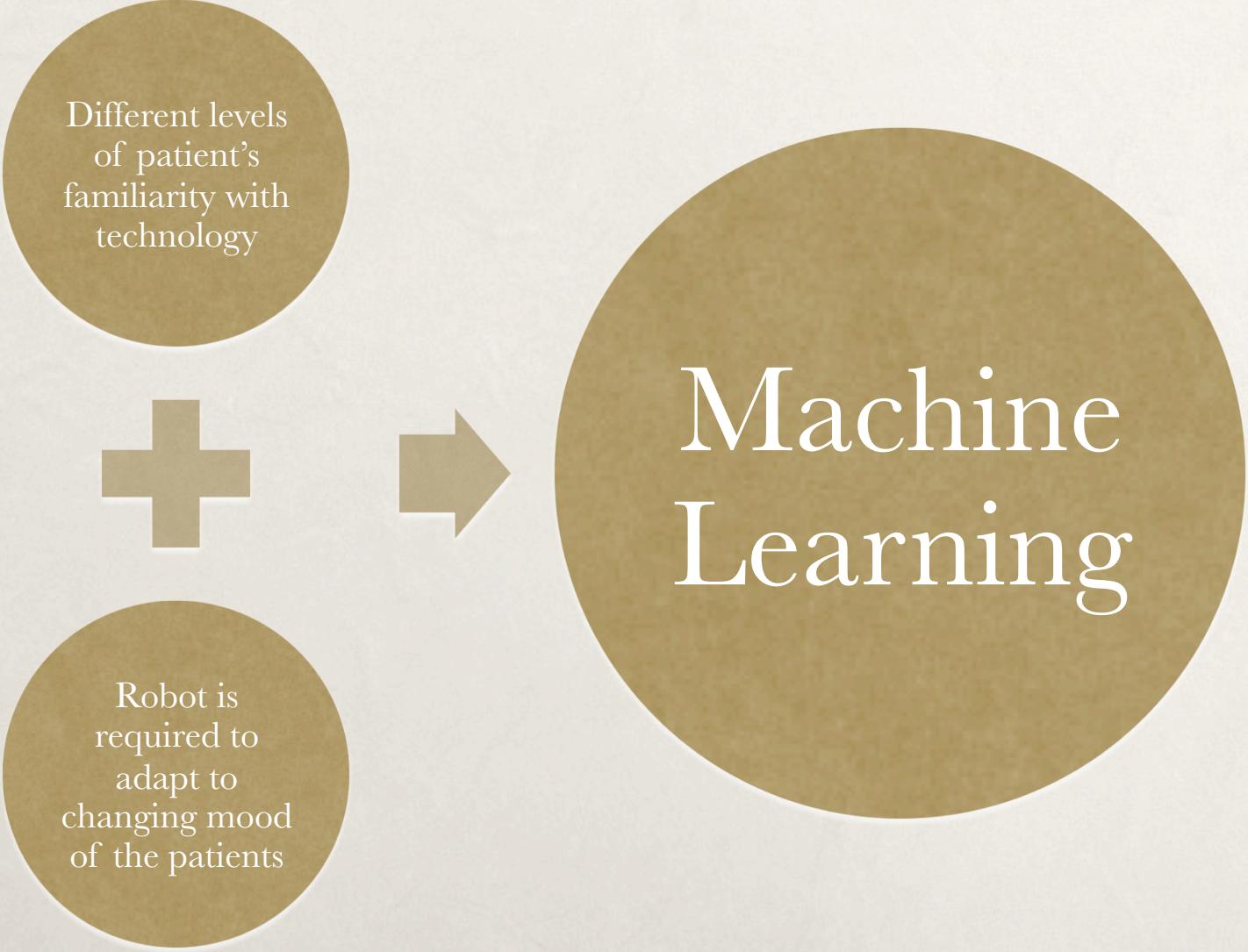
- * Medication: \$5,392
- * Rehabilitation: \$11,689
- * Total: \$17,081
- * Hours worked ~ 1,423 hours ~ 178 days ~ 6 months at minimum wage

Encouraging Mental Activity

- * Alzheimer patients
- * Autistic children



Challenges



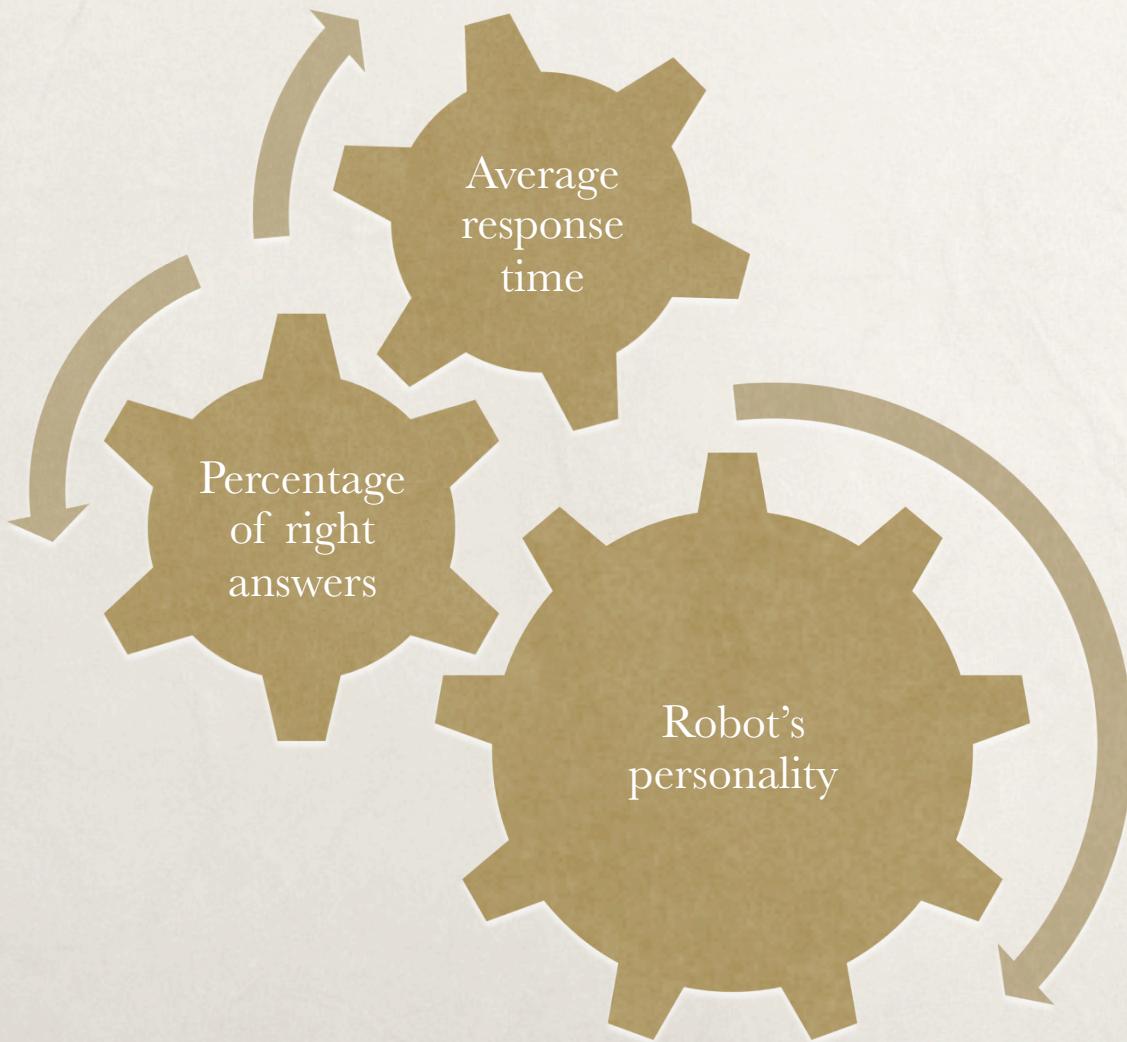
Different levels
of patient's
familiarity with
technology



Robot is
required to
adapt to
changing mood
of the patients

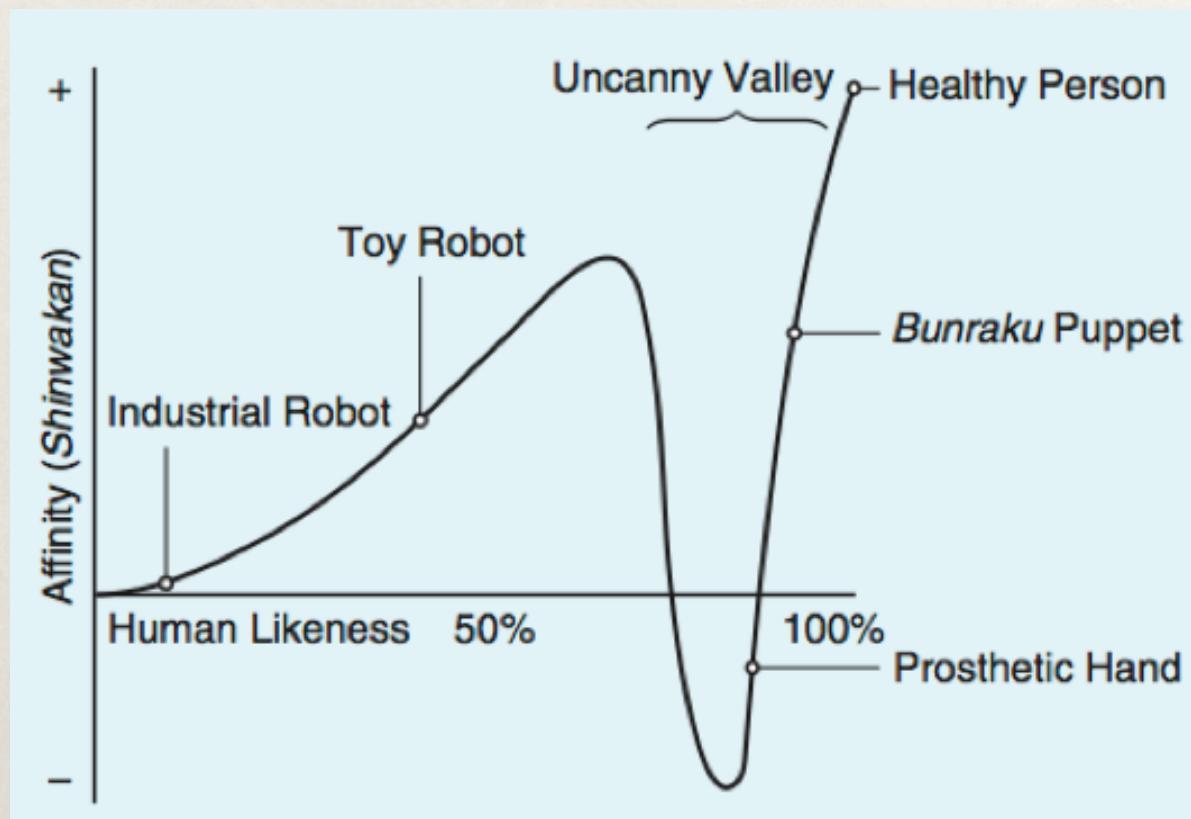
Machine
Learning

How it will adapt?



Effects of too many human features

- * Revulsion while attempting to attain a realistic appearance.



Questions?