Second Language Learners Play the "Imitation Game"

The Use of Immediate Social Media to Understand Perceived Nativelike Communication Strategies Warren M Tang Fukuyama University

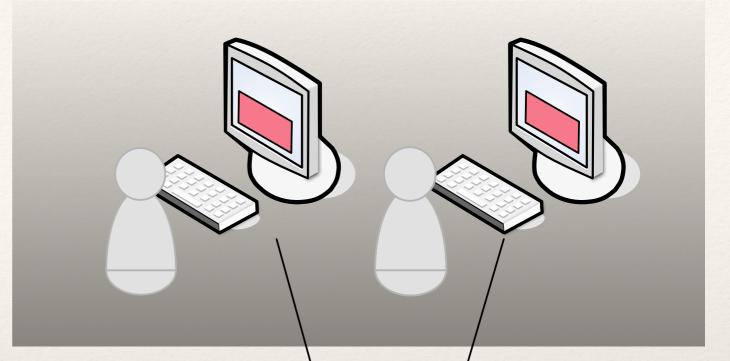
Japan Communication Association 4th December 2016

I was in the coffee shop ...

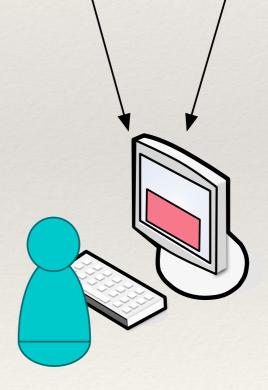
The Imitation Game

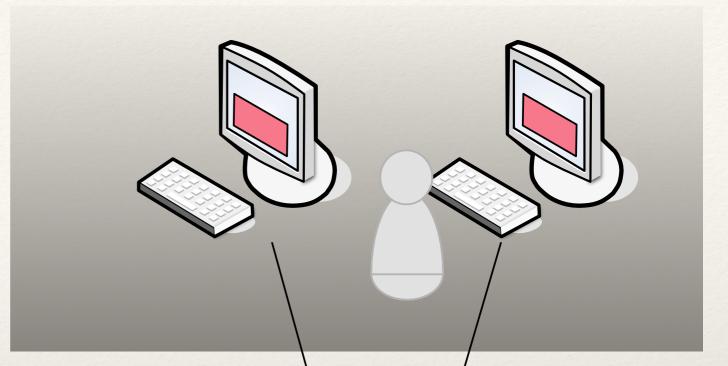
What is the Turing Test?

* "Computing Machinery and Intelligence" (Turing, 1950)
* "Can machines think?"

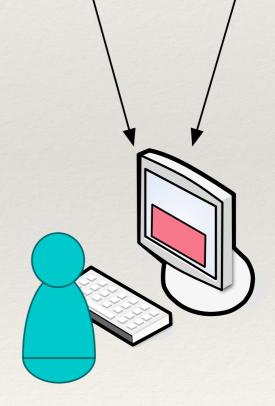


Turing's Imitation Game

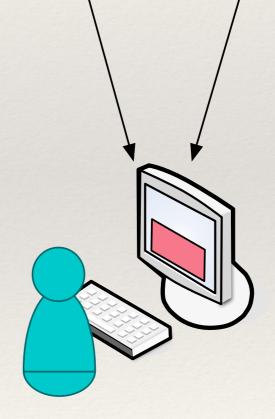




The Turing Test



Modified Turing's Imitation Game





- * Edmonds & Gershenson (2000)
 - * Machines will not pass the Turing Test
 - Machines cannot learn
 - Learning and adaptation should be considered separate

Imitation Game

- * Computers can imitate but not well
- An Imitation Game with visual input will thwart all communicative ability
- Embodiment is necessary <u>for learning to behave like a</u> <u>human</u>

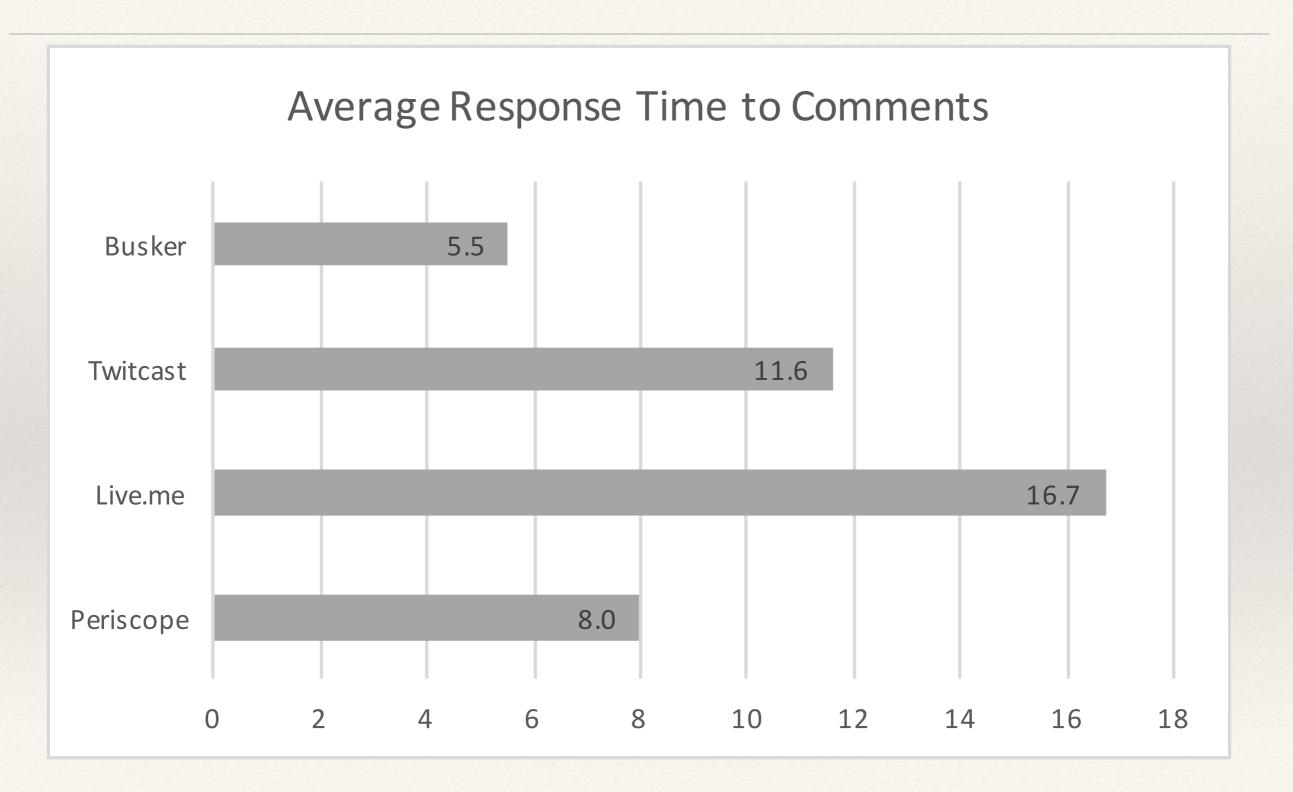
What is Periscope?

- * A live streaming app on iOS and Android devices
- Launched March 2015
- Developed by Keyvon Beyvour and Joe Burnstein as a response to Twitter's lack of video media during realworld events.
- * Acquired by Twitter before launch

Live Video Streaming

- * Also Streaming Media; "while" being delivered from provider to enduser; not downloaded content
- Other live streaming services:
 - * Meerkat
 - Busker
 - * live.me
 - * Twitcast
 - YouTube Live
 - * Facebook Live

Times

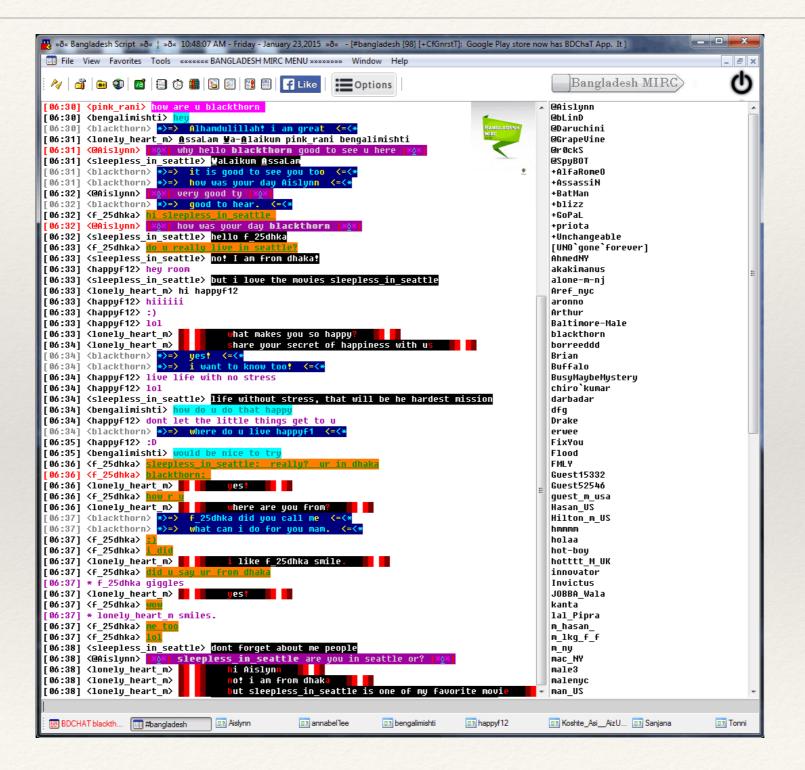


Keyword: Linguistic Economy

Interactive Media

* "Interactive media is the integration of digital media including combinations of electronic text, graphics, moving images, and sound, into a structured digital computerized environment that allows people to interact with the data for appropriate purposes." (England and Finley, 2002 (2011))

Before Periscope





Catfish, Sockpuppet and Bot

- Catfish "A catfish is someone who pretends to be someone they're not [...]" (from Urban Dictionary); "a person who creates a fake online profile in order to fraudulently seduce someone." (Harris, 2013)
- Sockpuppet "A sockpuppet is an online identity used for purposes of deception." (Wikipedia)
- **Bot** "a software application that runs automated tasks (scripts) over the Internet." (Dunham and Melnick, 2008)

Why bots cannot survive in Periscope?

- * Keywords in Artificial Intelligence:
 - * goals
 - action
 - perception (vs sensation)
 - environment
 - * knowledge
 - * learning

Second Language Learners

- * Experience of the (or a) world
- High in knowledge
- Learning machines

So let's Periscope!

The Interviews

The Interviews (1)

- 16 Periscope users
- Japan (6); USA (3); Australia, Canada, Switzerland, Norway, Russia, Taiwan, Philippines (1 person each).
- * Native speaker of English (5); Non-native Speaker (11)
- * Male (7), Female (9)
- Average age = 39.9 years old

The Interviews (2)

- * 14% broadcast, 86% viewing
- average 11 broadcasts per month
- * 31 minutes per broadcast
- broadcasting 6.5 hours per month, viewing 41.3 hours per month

End Game

The Experiment(s)

The Experiments

- Turing Test (Tang Test)
- * Longitudinal following of L2 viewer

Fluency and Accuracy

- * As a broadcaster
 - * Speaking
 - * Reading
 - High in fluency practice
 - Low in accuracy practice
- * As a viewer
 - Listening
 - * Reading
 - * Writing
 - High in fluency practice
 - * Low in accuracy practice

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