

# HRI Reading Group

@ Instituto Superior Técnico

Meeting #15 (29 June 2018)

**Welcome!**

Zeglin, Garth, Aaron Walsman, Laura Herlant, Zhaodong Zheng, Yuyang Guo, Michael C. Koval, Kevin Lenzo et al. **"HERB's Sure Thing: A rapid drama system for rehearsing and performing live robot theater."** In Advanced robotics and its social impacts (ARSO), 2014 IEEE Workshop on, pp. 129-136. IEEE, 2014.



[https://www.youtube.com/watch?time\\_continue=3&v=MMIQ9ETZEOs](https://www.youtube.com/watch?time_continue=3&v=MMIQ9ETZEOs)

# How can robots benefit from drama?

- Expressivity

What?

Emotions - Attitudes -  
Personality - Character -  
status - Stereotypes  
Context

How?

Gestures - Voice - Facial  
expressions - ... -  
Proxemics in groups or dyads

- Group social behavior
- Storytelling
- Theories of expressivity (e.g., Laban)
- Improvisation techniques
- Performers can teach robots to be more expressive

TV-show suggestion: Whose line  
is it anyway?

# How can drama benefit from robots?

- Repeatability to rehearse lines
- Robotic technologies not for performance
- Animated intelligent props
- Smart scenography

# Why robots in the Arts?

- Reflection of reality
- Enriching / enhancing possibilities for expressivity and storytelling
  - Intermediate step between lab and real world
    - Scenarios for computational creativity
- Tools for executing structured and non-creative tasks for humans to focus on creativity

# Robots in the Arts

- [RobotArt competition](#)
    - [Swarms](#)
    - [Baxter dancing](#)
  - [Dance performance video](#)
  - [Dancer controlling the piano](#)
  - [The robotic desk lamp AUR](#)
- etc.



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**See you next semester!**