



# **HUMAN-MACHINE INTERFACE**

**Raul Muser**

- Mis see on?
- Ajalugu
- Tänapäev
- Tulevik
- Lingid



# HMI

- The **user interface** (also known as *Human Computer Interface* or *Man-Machine Interface* (MMI)) is the aggregate of means by which people—*the users*—interact with *the system*—a particular machine, device, computer program or other complex tool. The user interface provides means of:
  - Input, allowing the users to manipulate a system
  - Output, allowing the system to indicate the effects of the users' manipulation.



- Batch interface, 1945-1968
- Command-line user interface, 1969 to present
- Graphical user interface(GUI), 1981 to present —
- Tangible interfaces / **UbiComp**
- Touch User Interface (TUI) iPhone



# TÄNAPÄEV

- Graafilised
- Veebipõhised
- Puutetundlikud



# TULEVIK

- BMI
- Multi-touch
- 3D



# LINGID

- <http://www.youtube.com/watch?v=he-j1BbZf58>
- <http://www.youtube.com/watch?v=yIpNZ2Eo2CA>
- [http://en.wikipedia.org/wiki/User\\_interface](http://en.wikipedia.org/wiki/User_interface)
- [http://en.wikipedia.org/wiki/Brain-computer\\_interface](http://en.wikipedia.org/wiki/Brain-computer_interface)
- <http://www.youtube.com/watch?v=67G11DnMVco>
- <http://www.youtube.com/watch?v=rqJDfkuNNok>
- [http://www.youtube.com/watch?v=wNr3yGcI\\_V8](http://www.youtube.com/watch?v=wNr3yGcI_V8)
- <http://www.youtube.com/watch?v=7-cpcoIJbOU>
- <http://www.youtube.com/watch?v=91a3Z3F4sRA>

