

# The Ministry of Interfaces (Doors)

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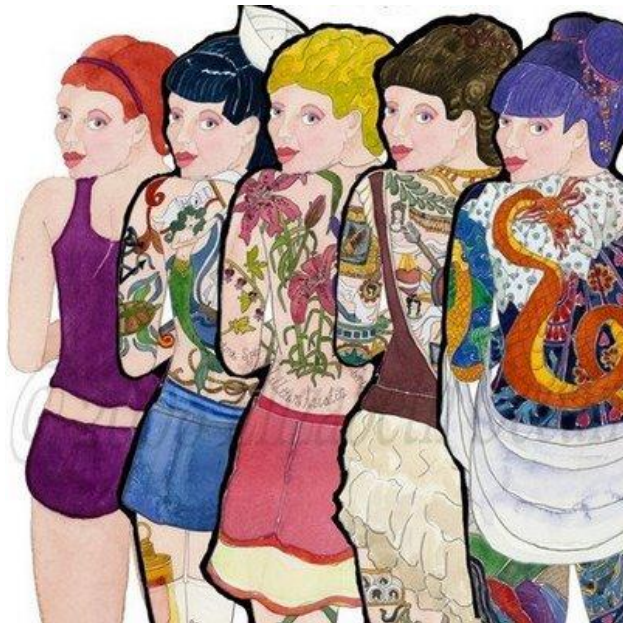
“The cat that walked by himself”  
by Rudyard Kipling



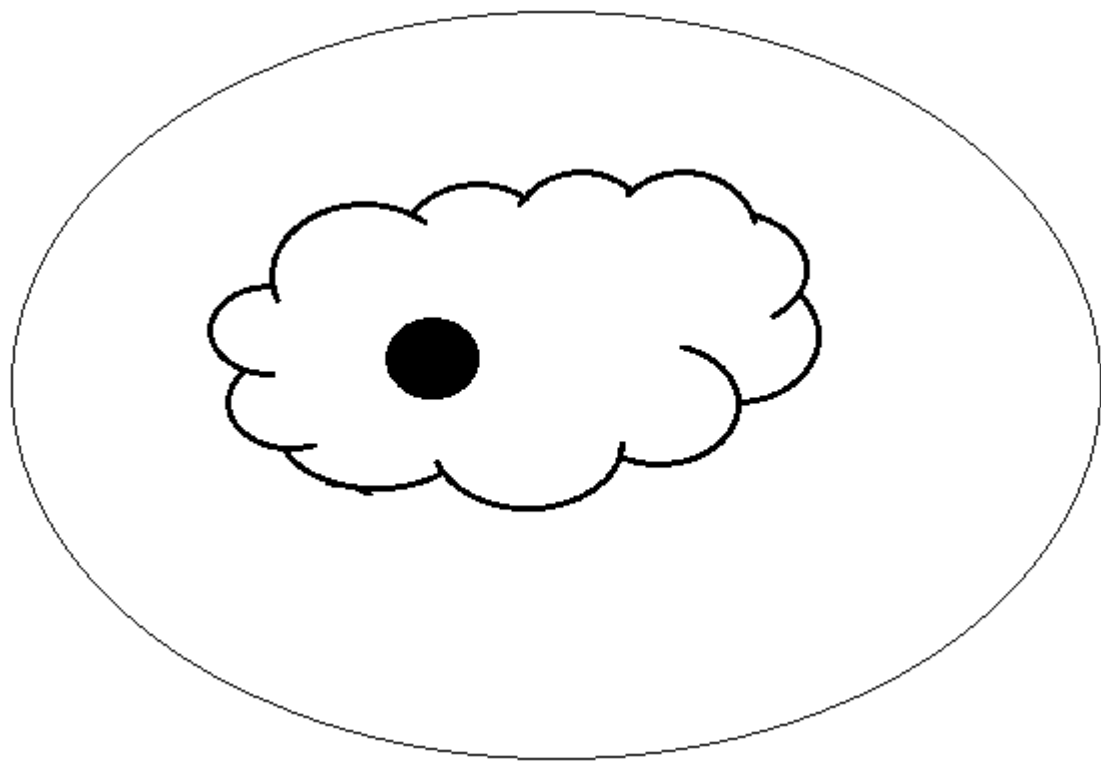




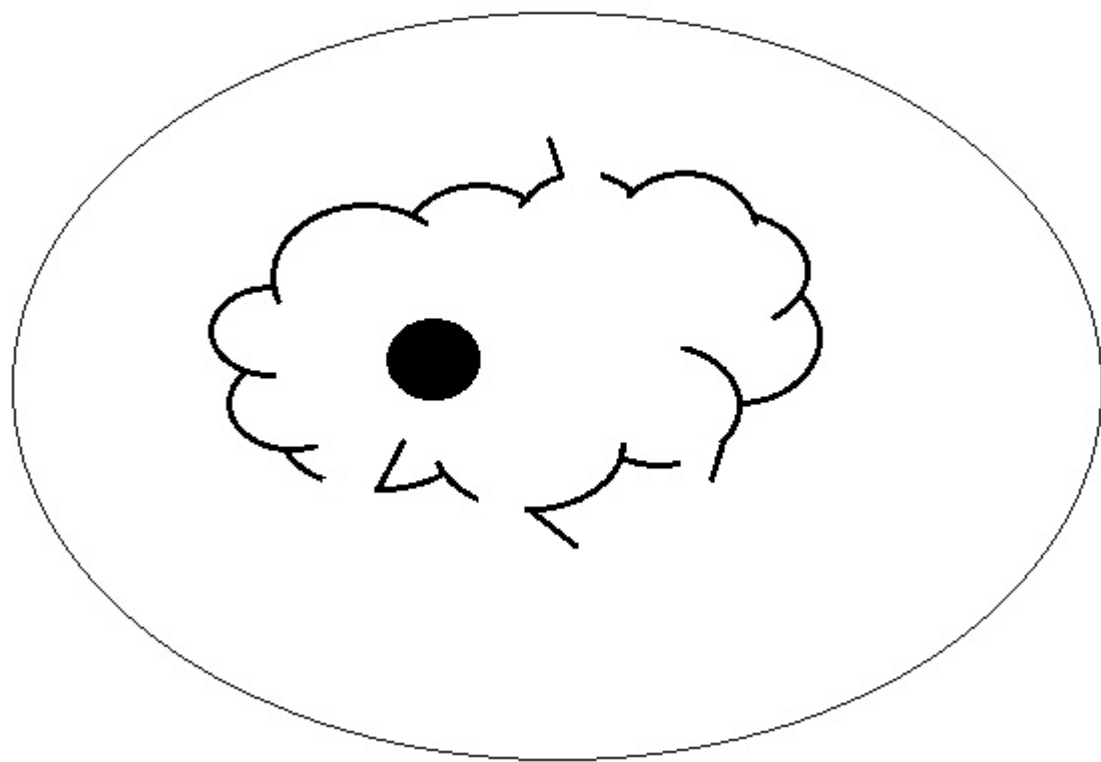


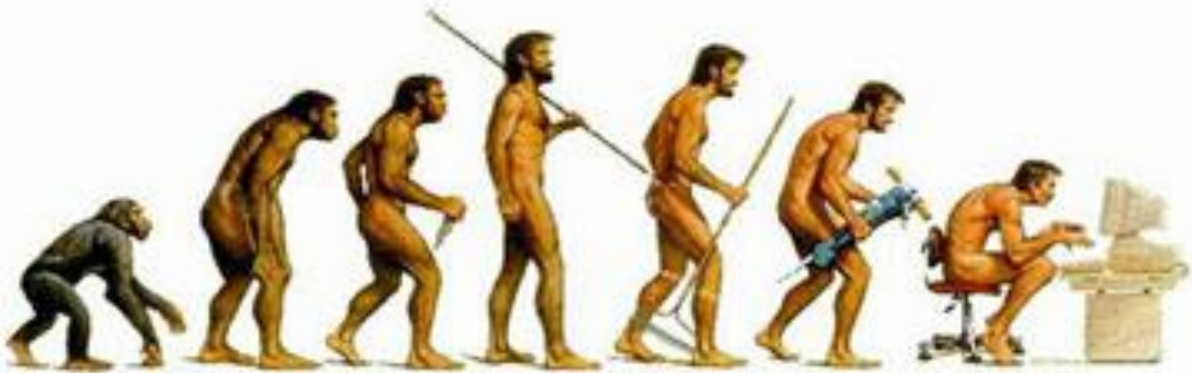












**it** has evolved

## Stream 1: assisting IE

- organisation & ***representation*** of objects in space
- data capturing, ***representation***, dissemination
- separating content from its ***representation*** (including context, carrier, and media)
- decomposition
- ***interaction***: simulation environments allowing for embodiment experiences
- mixed realities

## Stream 2: HCI, BCI, neuroscience

- interaction with the external environment
- decision making
- several interconnected levels:
  - analytical, physiological, emotional
- embodied simulations

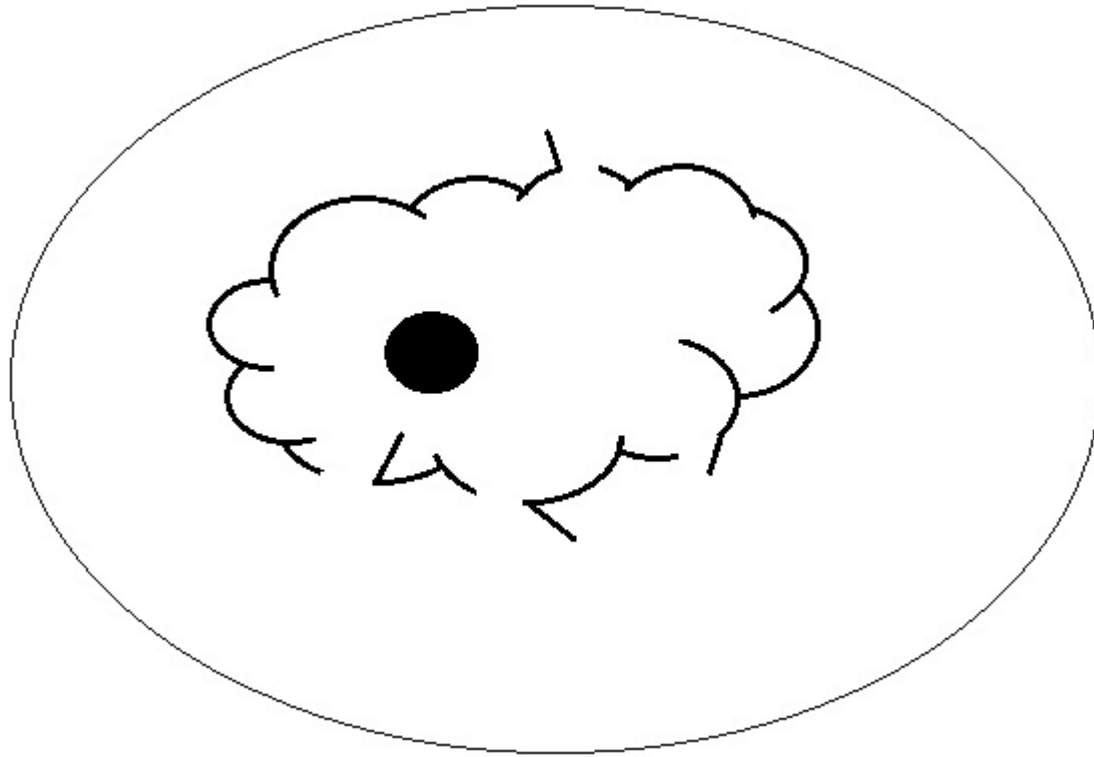
## Stream 3: security



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- passwords, biometrics, encryption, etc
  - don't fully address the relevant security requirements
- ICmetric technology
  - generating encryption keys directly from the characteristics of electronic devices
  - users patterns of interacting with electronic devices: systems' behaviour on both hard- and software levels
  - features extracted from electronic circuits, sensors, HCl

# Summary

- Concept of Interfaces for future IE design
- Interaction, representation, security
- Multidisciplinary approach:
  - IT,
  - security, neuroscience,
  - psychology, physiology,
  - sociology, history, culture
  - etc



Thank you!