

# Design Heuristics

# From Knowledge to Guidelines

- **Important to understand**
  - How people perceive
  - How people remember
  - How people act to pursue goals
- **How can system designs use this knowledge to improve UX?**
  - A: “Guidelines”

# Usability Inspection

- **A way to quickly find problems with user interfaces**
- **“Problems”**
  - **Prevent users from accomplishing goals**
  - **Annoy users even if they eventually figure it out**
  - **Create confusion, uncertainty, frustration, and other negative responses**
- **Basic idea**
  - **An “expert” goes through the system methodically**
  - **Look for adherence to well-known principles of good design**



# Guidelines

- **There are many guidelines out there**
  - Example: <http://guidelines.usability.gov/>
  - Example: <https://developer.android.com/design/index.html>
- **You could use any set of guidelines for an inspection**
- **Choosing guidelines**
  - **Are they well-supported and focused on user experience?**
  - **Do they cover all the important best practices?**
  - **Do they apply to your platform/situation?**
  - **Are they easy to use?**

# Jakob Nielsen's 10 Heuristics

- **“Heuristic” means “rule of thumb”**
  - Slightly more general than a “guideline”
- **Derived from a systematic review of usability problems**
- **Intended to be a small, complete, and usable set**
- **Able to be taught in a few hours**
  - (though you get better with practice)
- **Well-supported by theories of perception and cognition**



# **And here they are...**

- 1. Visibility of system status**
- 2. Match between system and the real world**
- 3. User control and freedom**
- 4. Consistency and standards**
- 5. Error prevention**
- 6. Recognition rather than recall**
- 7. Flexibility and efficiency of use**
- 8. Aesthetic and minimalist design**
- 9. Help users recognize, diagnose, and recover from errors**
- 10. Help and documentation**

# How to Use Them

- **Self-critique when designing UIs**
- **Use in *Heuristic Evaluation*, a UX Research method**