MIS 3504
Digital Design and Innovation

Week 12

Photo: Installation by Jenny Holzer, US Pavillion, Venice Biennale 1990

What did we learn

1: Understand the Need

2: Know the Sponsor and users

3: Analysis the Current State

4: Design for the Future State

Project Tools

1: Stakeholder Analysis

2: Project Scope

3: Project Plans

Elicit Requirements
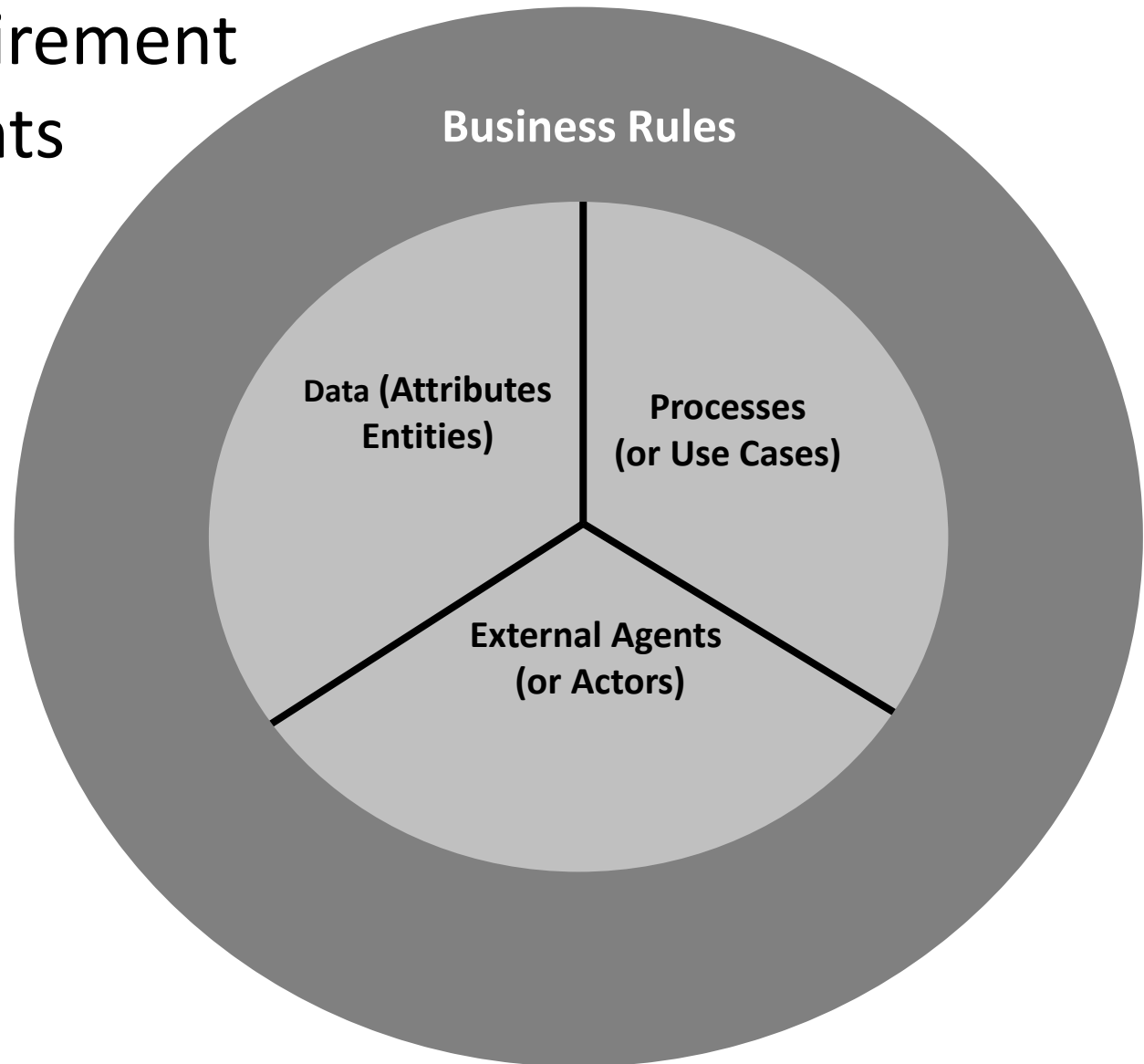
1: Actors
2: Data
3: Process
4: Business Rules

Core Requirement Components

Business Rules

Data (Attributes Entities)

Processes (or Use Cases)

External Agents (or Actors)

The Analysis Tools

1: Process Flow Diagrams

2: Data Entities

3: Business Rule Decision Tree

Design PROCESS

1. Preparation: becoming immersed in problems and issues that are interesting and arouse curiosity

2. Incubation: allowing ideas to turn around in your mind without thinking about them consciously

3. Insight: experiencing the moment when the problem makes sense, and you understand the fundamental issue

4. Evaluation: taking time to make sure that the insight provides sufficient value to outweigh the various costs involved in implementation

5. Elaboration: creating a plan to implement the solution and following through

From How Creative are You? http://www.mindtools.com/pages/article/creativity-quiz.htm

PERSONAS are:

1. Archetypal people involved with a product or service

2. More than just a "USER" – specific people

3. Devised from OBSERVING and TALKING to people

4. A composite of many people

SCENARIOS are
STORIES

(your persona is the protagonist)

IMAGINE your design concepts IN USE

Design principles

Intuitive

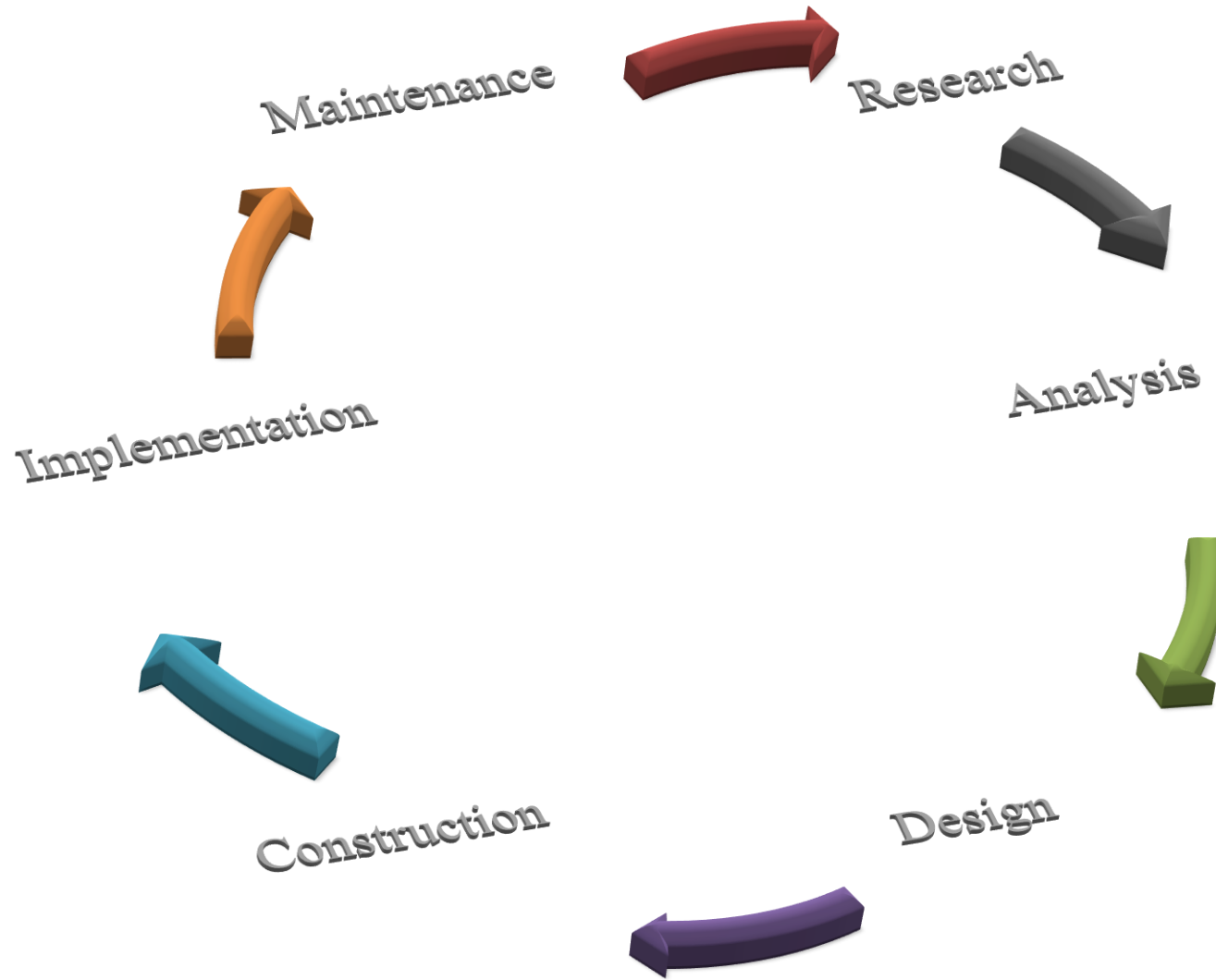Relevant

Searchable

Personal

Helpful
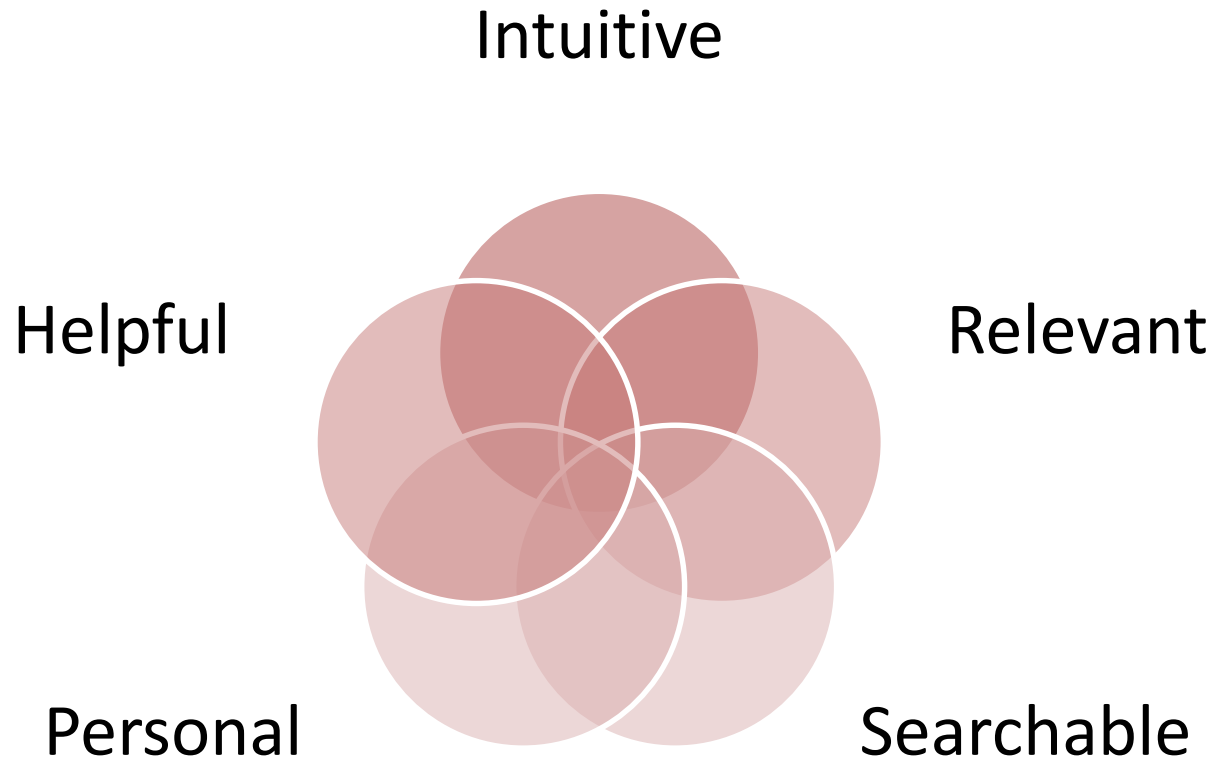
How do you develop a **Heuristic Review** to use?

Software Development **Life Cycle**

What Makes a Good **Design**

- Do not clutter the screens
- Expand / Collapse information
- Use of icons and symbols
- Search
- Colors
- Navigation
- Controls

Final Grade

- Exam 1 – 20%
- Exam 2 – 20%
- Exam 3 – 20%
- Individual Assignments – 20 %
  - Scope, Process flow, Data Entities, Business Rules
  - Class Participation
- Team Project – 20 %
  - Documentation:
    - Project Scope Document
    - As is Current State Analysis documentation
      - Process Flow Diagrams (without solution)
      - Data Diagrams (without solution)
      - Business Rules
    - To Be Future State Analysis documentation
      - Process Flow Diagrams (reflecting potential solution)
      - Data Diagrams (reflection potential solution)
    - Persona(s)
    - Scenarios
    - Prototype Screen shots and JustinMind (.vp) file
    - Presentation PPT file
  - Presentation
    - Class presentation
    - Demonstration of Prototype