



# 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

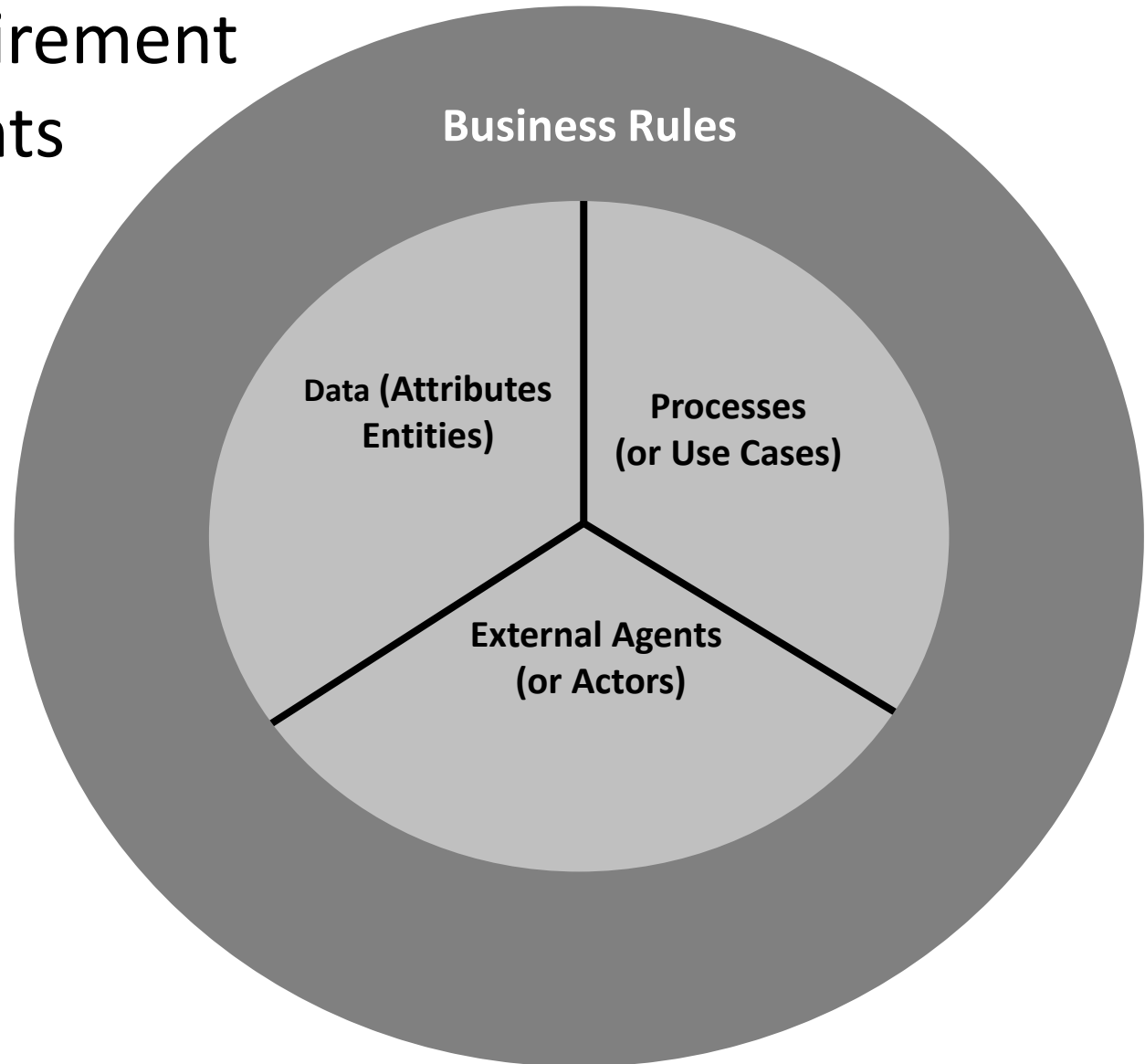
1: Actors

2: Data

3: Process

4: Business Rules

# Core Requirement Components



# 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

## **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**

**From SAFFER: Designing for Interaction**



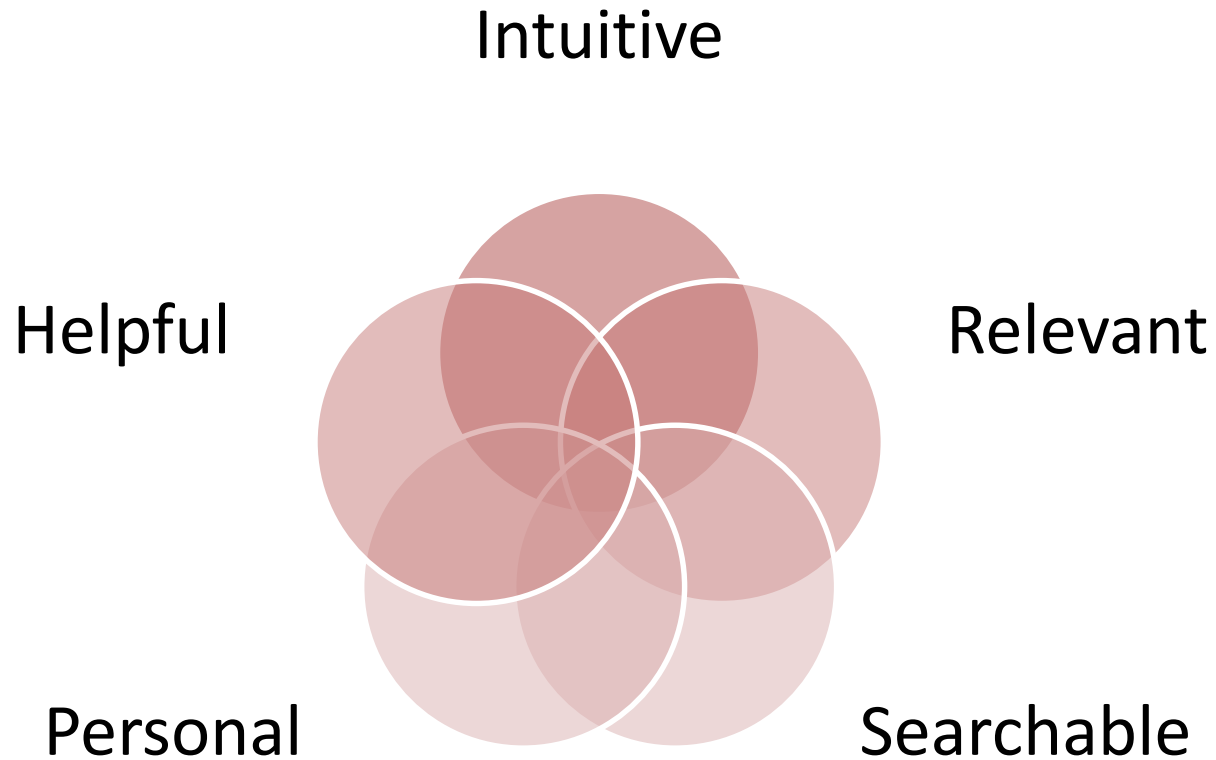
SCENARIOS are

STORIES

(your persona is the protagonist)

IMAGINE your design concepts IN USE

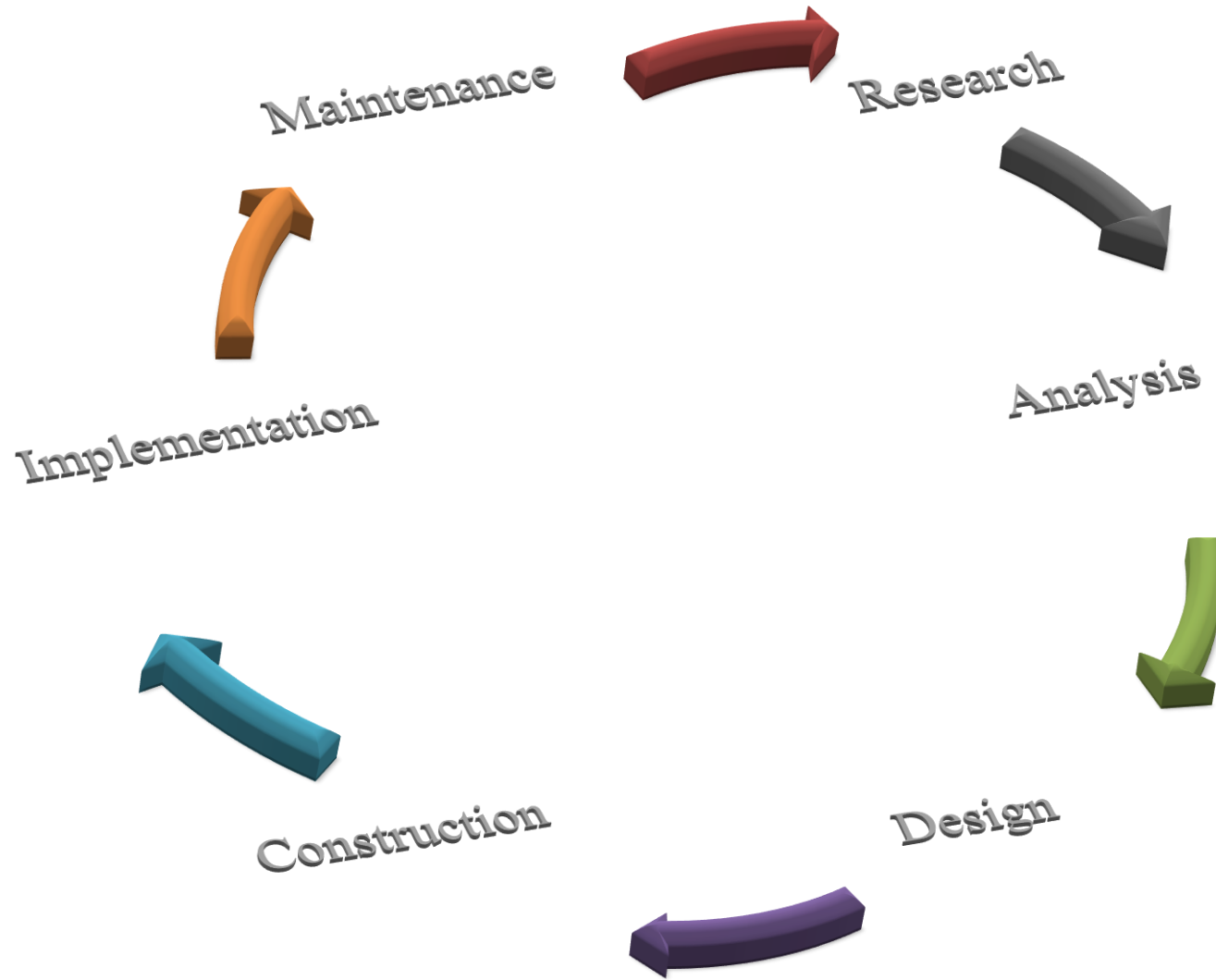
# Design principles



**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

# Exam 3

- The primary material covered in the Exam will be on the Design aspects of the course with focus on the topic discussions and exercises reviewed in Classes 8 through 11.
  - [Class 8 – Design](#)
  - [Class 9 – Persona/Scenario/Prototype](#)
  - [Class 10 – User Experience](#)
  - [Class 11 – Reviewing Work](#)
  - [Class 11 – Selling Your Ideas](#)
- While the exam will focus on design aspects of the discussion there will be reference to the analysis tools (process flow, data entities and business rules) found in some of the questions and applied in the case portions of the exam.
- A review of chapter 6 in the text book and the class discussion on the analysis tools will also be helpful
  - [Class 5 – Process Mapping](#)
  - [Class 6 – Data Mapping and Relationships](#)
  - [Class 7 – Business Rules and Decision Tree](#)
- The exam has three sections: (all multiple choice)
  - 1) 12 question on general knowledge of the above subject areas (mostly on Design Topics)
  - 2) 12 questions based on a case review which is focused on data elements and there application in a mocked up design solution (Report designs and layouts will be included in the case material)
  - 3) 16 question on a separate case review which will focused on the identification / evaluation of business rules and their applicability to a developing potential solution.
  - To prepare for the question pertaining to the two cases in the exam, review previous case work assignments and practice identifying the key process steps, data elements and business rules that would be pertinent to creating a solution.
  - Overall this exam will test you skills in analyzing the information supplied in a case an applying it to a solution

# 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 %
  - 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