

# SFWR ENG 3RA3 Summary

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Date: Fall 2014

*Math objects made using [MathType](#); graphs made using [Winplot](#).*

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## Lecture 1

And so it begins...

## Lecture 5

### Defining Requirements

Types of projects:

- Rabbit:
  - Agile
  - Short life
- Horse:
  - Fast, strong, dependable
  - Most common in corporate
  - Medium longevity
- Elephant:
  - Solid, strong, long life

**Artifact-driven:** basing the requirements on data collection, questionnaires, etc.

- You can often collect too much data
- Only keep what you need to know
- *prune* the document space, so you only keep the useful data.

**Scenario:** similar to *storyboards*...

**Positive Scenario:** behaviour system should cover

- **Normal Scenario:** everything proceeds as expected
- **Abnormal Scenario:** a desired exception

**Negative Scenario:** behaviour system should exclude

## Knowledge Acquisition

**Stakeholders:** important to identify when determining who to customize the project towards

- Who is responsible for funding/using/managing the project?
- Caution: interactions with them must be done carefully

**Domain expertise:** what does the domain know / qualifications? Domain is who the project is directed towards

## Lecture 6

**Stakeholders-driven Elicitation Techniques:** methods of knowledge acquisition

- Interviews
  - Single interview for multiple stakeholders: faster, but less involving
  - Steps:
    - Select stakeholders
    - Background study
    - Predesign sequence of questions, focused on concerns of present stakeholder(s)
    - Begin by asking easy questions
    - Keep focus during interview
    - Ask 'why'-questions
    - Record answers and reactions
    - Write report from transcripts
    - Confirm report with stakeholders interviewed
  - Types:
    - **Structured:** predetermined set of questions
    - **Unstructured:** free discussion of current system
    - Optimal: start with *structure*, then do *unstructured*
- Observation: