Topics covered in Final Exam

Lecture 2: Critical Reading

Lecture 3: Traits of a Researcher

Lecture 4: Literature Review

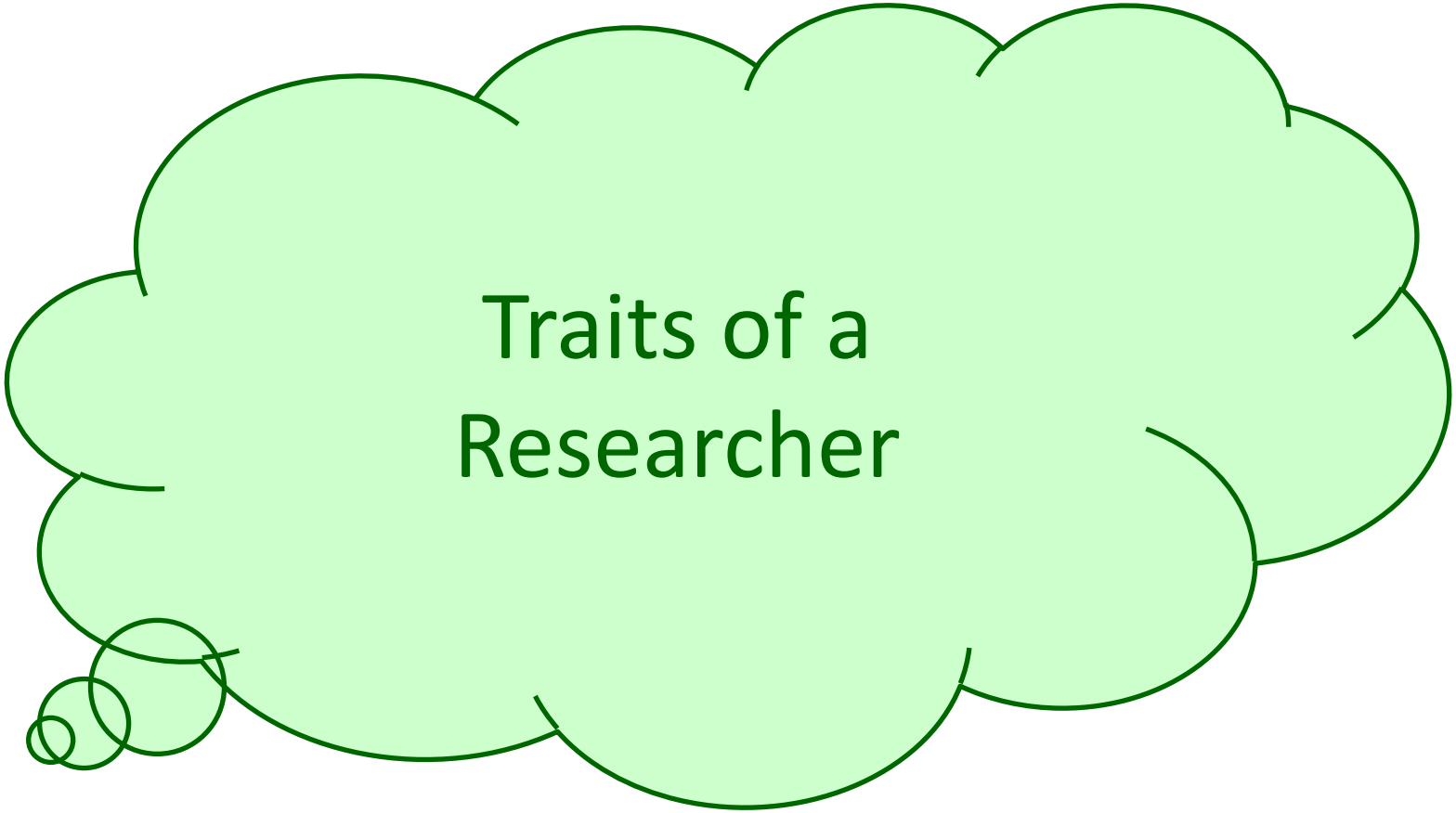
Lecture 5: Research Proposal

Lecture 7: Research Methods

Lecture 8: Case Study: Hough Transform (partial)

Lecture 10: Statistics, PPSP

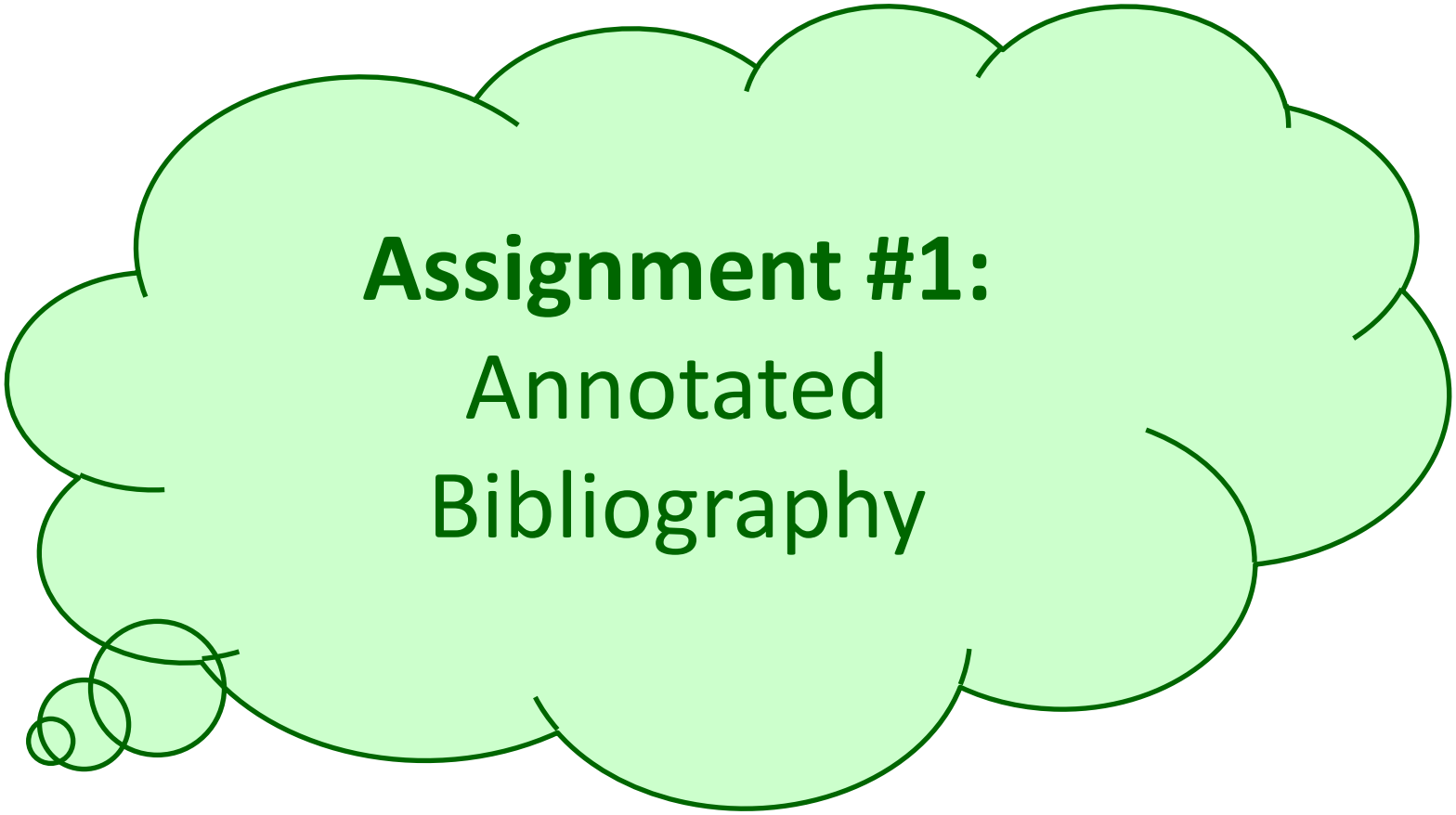
Lecture 11: Experimental Design (partial)



Research is the locomotive of innovation

Characteristics of Good Researchers

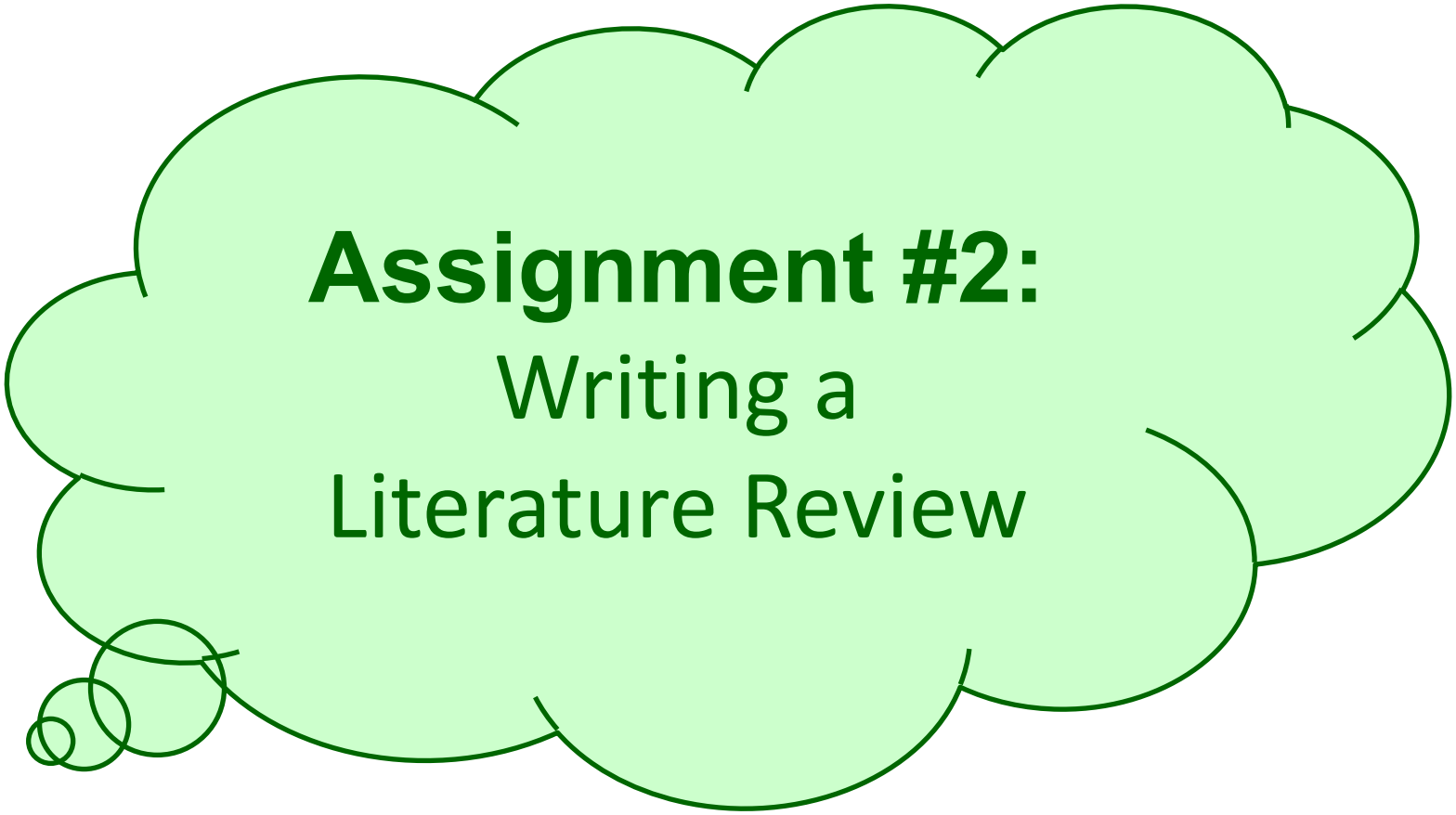
1. Personal Ideal
2. Attitude
3. Vision
4. Aims and Plan
5. Time Usage
6. Learn and Change
7. Integrity


Assignment #1:
Annotated
Bibliography

Structure of Annotated Bibliography

- An annotated bibliography will contain an identification of the publication being annotated along with answers to the questions listed in the previous slides.

- The length of each annotation is not fixed/prescribed. However, it should indicate that the researcher understands the contents of the publication and has reflected on it.


Assignment #2:
Writing a
Literature Review

Writing a Literature Review

1. *Definition of literature review*
2. *Structure of a literature review*
3. *Process of writing a literature review*
4. *Evaluating primary research*
5. *Writing and presenting a literature review*
6. *General guidance*
7. *Additional information*

Assignment #3:
Writing a
Research Proposal

Writing a Research Proposal

- Title
- Abstract
- Introduction/Background
- Problem Statement
- Purpose/Aims/Rationale/Research Questions
- Review of Literature
- Methodology
- Significance/ Implications
- Overview of Chapters
- Plan of Work
- Bibliography

Research Proposal (for Assignment 3)

Modified from Lecture 05…

- Title
- Abstract
- Introduction/Background
- Problem Statement
- Objectives/Rationale/ Research Questions
- Review of Literature
  - Add Gaps & Challenges
- Changes to Prob Stmt

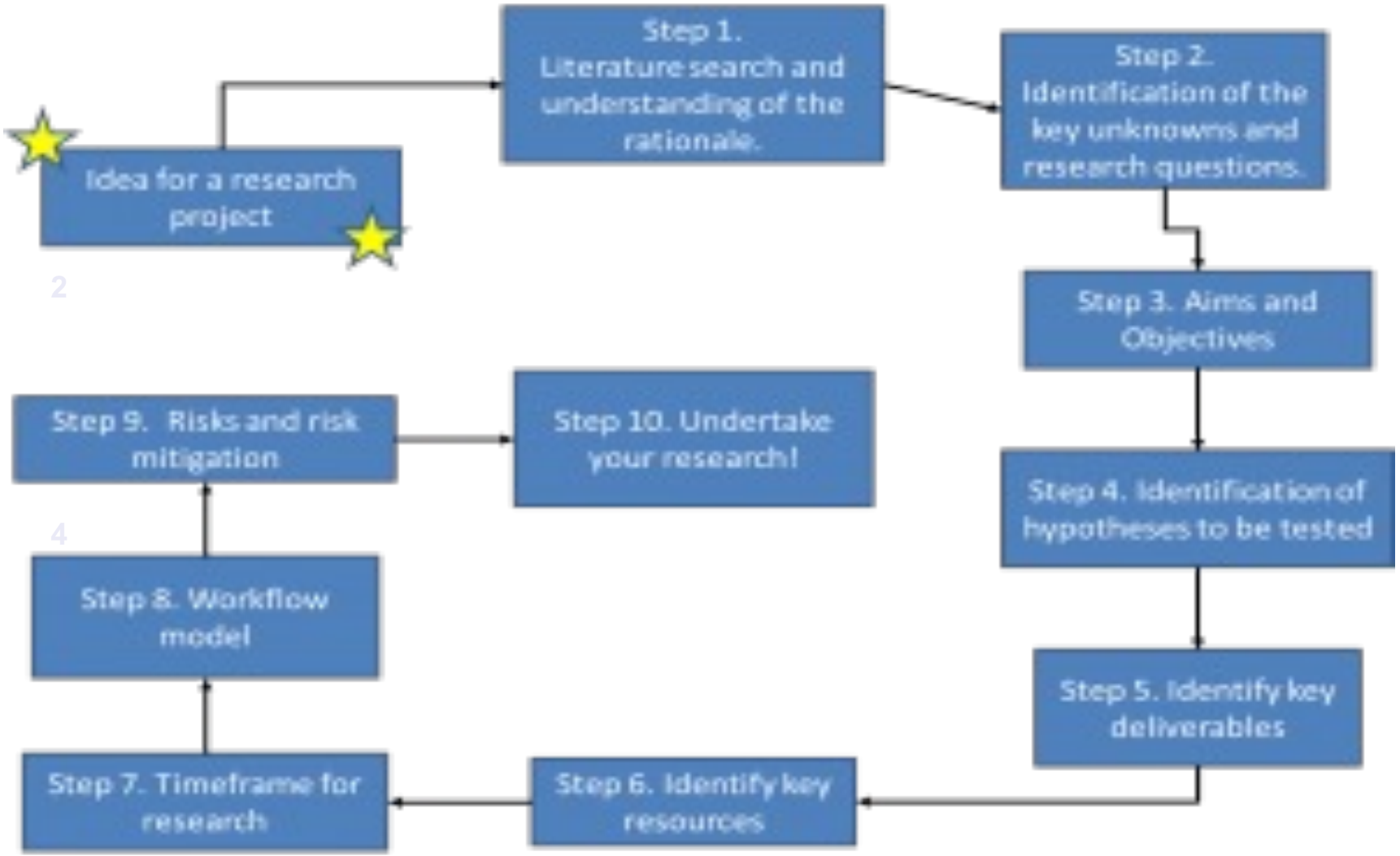
- Methodology
- Significance/ Implications
- ~~Overview of Chapters~~
- Plan of Work
- Bibliography

WHAT YOU HAVE TO DO:

1. Start from your LR (Assgmt 02)
2. Follow Assgmt 03 tasks description

We grade mostly parts in blue.

A Good Research Design in 10 Steps



Reflection and Criticism

- ✓ Do you agree with the authors' rationale for setting up the experiments the way they have done?
- ✓ Did they perform the experiments appropriately?
- ✓ Were there enough experiments to support the major findings?

- ✓ Do you see trends/patterns in their data?
- ✓ Do you agree with the author's conclusions?

- ✓ What further questions do you have?
- ✓ What might you suggest they do next?
- ✓ Trigger new ideas for your own research.