#### Previous Lectures

- · Critical Reading and Reference Management
- English Grammar guidelines
- Communication Ethics
- Office Communications
- Resume/CV and Interview Process
- · Conference paper and presentation
- Thesis and Thesis-Defense
- Presentation Skills
- · Journal Papers
- General Rules of technical writing and communication Skills

## Today's Lecture

- Referencing
  - BibTeX

B

### Need for References and Citation

- Technical writing and communication -> based on
  - Data
  - Analysis
  - · Facts already established.
- A lot of reading and thinking and discussion.
- References

b

# Importance of References

- Academic Integrity
- Credibility and Authority to your Work
- Show that you Know
- Avoid charges of Plagiarism/Unethical practices

D

## Listing of References

- Absolutely NECESSARY
  - Due Credit
  - · Somebody counts these
- Very difficult manually
- Every university/company/journal/conference has own standards
- Hundreds of styles

be

# Reference Management

- Need a powerful database software to process according to various styles
- EndNote
- Zotero
- Mendeley
- · Jabref ...
- · LibreOffice Write feature
- Microsoft Word feature

#### **References and Citation Software**

- 1. A master list of books, journal and conference papers, webpages, blogs, reports, theses, ...
- 2. Extract the data of those you need
- 3. Make a list of references and cite in the style you need

#### Several Styles for Citation and Reference List

- IEEE
- ACM
- MLA
- APA
- Depends on
  - Journals
  - Conferences
  - · Magazines,
  - University (for thesis)
  - Company (for reports) ...

#### Various Styles (Zotero)

```
• APA
```

```
In a recent paper (Ghosh, 2019) the complexity of an image was explained ...
References
Ghosh, A. and Deb, T. (2019). "Spatial Complexity of Images", Optical Eng., 52 (4), 408-411.

IEEE
In a recent paper [3] the complexity of an image was explained ...
References
```

[1] ...

[2] ...

[3] A. Ghosh and T. Deb, "Spatial Complexity of Images", *Optical Eng.*, vol. 52, pp. 408-411, Apr. 2019.

## Making references in LaTeX

# Need to compile the document twice

- Because we are using symbolic references, e.g., \cite{WF},
  - · a second pass is necessary
- The second pass will resolve references

D

from: www.cs.uga.edu/~eileen/ 6950/

My mother is a  $\underline{\text{fish}}$  [1].

# References

[1] William Falkner, As I Lay Dying

## Problem with this method

- User is burdened with deciding how to format article titles, journal names, proceeding references
- Difficult to reuse references in other documents

b

#### **BibTex**

- Complements LaTeX documents by managing bibliography and references
- Minimizes the drudgery of formatting, numbering, and referencing
- Disadvantage:
  - Steep Learning Curve

#### The BibTex Process

- Create a BibTex file with Rerefence entries
- 2. Get a \* . bst file (bibliographic style file)
- "Compile" or "Build" your LaTeX document to create an \*.aux file
- 4. Run BibTeX on your LaTeX file
- 5. Run LaTeX twice on your updated file
- 6. View the dvi or pdf file

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## Types of Documents BibTex can handle

- ARTICLE
- BOOK
- BOOKLET
- INBOOK
- INCOLLECTION
- INPROCEEDINGS
- MANUAL

- MISC
- PHDTHESIS
- PROCEEDINGS
- TECHREPORT
- UNPUBLISHED

# Each Document type can have the following entries

- address
- author
- · booktitle
- chapter
- crossref
- edition
- editor
- howpublished
- institution
- journal
- key
- · language

- month
- · note
- number
- organization
- pages
- · publisher
- school
- series
- title
- · type="Ph.D. dissertation"
- volume
- year

## Sample BibTex Book Entry

```
author="W.H. Press",
title="Numerical Recipes in C: The Art
  of Scientific Computing",
publisher="Cambridge University Press",
year=1992,
}
```

from: www.cs.uga.edu/~eileen/

# Sample BibTex Article Entry

```
author="Anthony Vodacek and F.E. Hoge and R.N. Swift and J.K. Yungel and E.T. Peltzer and N.V. Blough", title="The use of in situ and airborne fluorescence measurements to determine UV absorption coefficients and DOC concentrations in surface waters", journal="Limnology and Oceanography", volume=40, number=2, year=1995, pages="411-415", }
```

from: www.cs.uga.edu/~eileen

# Generating BibTeX files

- Use bibliographic software such as Zotero, Mendeley, Jabref, ...
- Export the entire library or a few items in the BibTeX format with a mybib.bib name
- In your main LaTeX file use commands

```
\usepackage{mim}
\bibliographystyle{mim}
\bibliography{mybib}
```

• Use the command \cite{key} to refer to a reference in your list

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## To invoke these styles in your document

- Copy them to your current working directory with your LaTeX and BibTex document
- Edit your LaTeX file to appropriately reference these style guides