# Technical Communication Fundamentals Chapter 3: Visual Design

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*Technical Communication Fundamentals* 1<sup>st</sup> *Edition* W.S. Pfeiffer and K. Adkins



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# ABC Format for Documents

 Abstract: The "Big Picture" for Decision-Makers

- Common headings include...
  - Summary
  - Executive Summary
  - Introductory Summary
  - Overview
  - Introduction

# ABC Format for Documents

- Body: Details for All Readers
  - Includes supporting information
    - Background of the project
    - Field, lab, office, or other work upon which the document is based
    - Details of any conclusions, recommendations, or proposals

# **ABC** Format for Documents

# *Conclusion*: Wrap-Up Leading to the Next Step

- Brings readers back to one or more central points mentioned in body
- Provides closure to the document
- Leads to the next step in writer's relationship



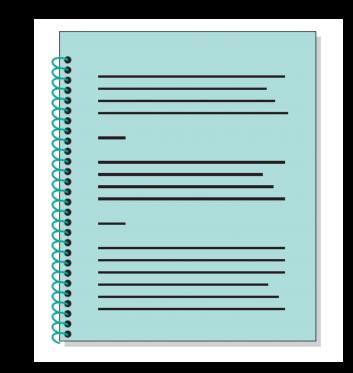
- Elements of Page Design
- Elements for Navigation
- Fonts
- General Guidelines for Graphics
- Specific Guidelines for Six Graphics
- Misuse of Graphics
- Computers In the Visual Design Process

- White Space
- Lists
- In-Text Emphasis

- White Space
  - Attracts attention
  - Guides the eye to important information on the page
  - Relives the boredom of reading text
  - Helps readers organize information

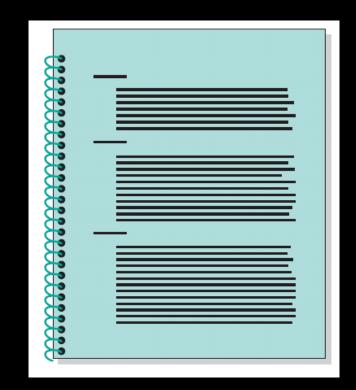
- White Space
  - Margins
    - Use 1" to 1 ½" for most documents
    - Use more space on left margin for bindery
    - Use more space on bottom of page

#### Use of White Space—Margins



- White Space
  - Hanging Indents
    - Blocks of text to emphasize headers
    - Bulleted and numbered lists

#### Use of White Space—Hanging Indents



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White Space

- Line Spacing
  - Use single spacing for letters, memos, short reports
  - Use 1 ½-space or double-spaced for longer documents

#### White Space

- Paragraph Length
  - Give readers the chance to regroup
  - Shape reader expectations

#### Use of White Space—Paragraph Length

Poor Format: One long paragraph on page Better Format: Several paragraphs on page		
	Book Formati One land	Detter Formet, Covered
	Poor Format: One long	Better Format: Several
paragraph on page paragraphs on page		
	paragraph on page	paragraphs on page

#### Lists

- Cluster items for easy reading
- Groups of three to ten items
- Use lists for
  - Examples
  - Reasons for a decision
  - Conclusions or recommendations
  - Steps in a process
  - Cautions or warnings
  - Limitations or restrictions

#### Lists

- Use bullets or numbers as appropriate
- Format for ease of reading
- Use parallel lead-in words
- Punctuate and capitalize consistently

#### Punctuation: Lists

- No Punctuation after listed items
  - Site preparation
  - Foundation design
- Treat the list like a sentence series
  - Site preparation, and
  - Foundation design
- Treat each item like a separate sentence
  - We will need six boreholes.
  - Sampling and testing should start soon.

#### Elements for Navigation

#### Headings

Brief labels used to introduce new sections or subsections

Headings serve as a...

- signpost for readers
- grabber to entice readers
- visual "oasis" of white space

#### Headings

- Use your outline to create headings and subheadings
- Use substantive wording
- Maintain parallel form in wording
- Establish clear hierarchy

#### Elements for Navigation

#### Running Headers and Footers

- Page numbers, chapter titles, page numbers, graphic elements
- Help readers locate information

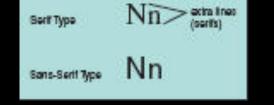


- Focus attention of important detailsLimit use of color
  - Color is expensive in professionally printed documents
  - Color printing on desktop printers can be slow



# Using Fonts

Font Types Serif fonts Sans-serif fonts Type Size 10-12 point type is most common



Type size appears varies from font to font

# General Guidelines for Graphics

- Determine the Purpose of the Graphic
- Evaluate the Accuracy and Validity of the Data
- Refer to All Graphics in the Text
- Think About Where to Put Graphics
- Position Graphics Vertically When Possible
- Avoid Clutter
- Provide Titles, Notes, Keys, and Source Data

# Specific Guidelines for Graphics

- Tables
- Pie Charts
- Bar Charts
- Line Charts
- Flowcharts
- Technical Drawings

# Specific Guidelines for Graphics

#### Tables

- Use Informal Tables as Extensions of Text
- Use Formal Tables for Complex Data Separated from Text
- Use Plenty of White Space
- Follow Conventions for Dividing and Explaining Data
- Pay Special Attention to Cost Data



#### **TABLE 22: Employee Retirement Fund**

Investment Type	Book Value	Market Value	% of Total Market Value
Temporary Securities	\$ 434,084	434,084	5.9%
Bonds	3,679,081	3,842,056	52.4
Common Stocks	2,508,146	3,039,350	41.4
Mortgages	18,063	18,063	0.3
Real Estate	1,939	1,939	nil
Totals	\$6,641,313	\$7,335,492	100.0%

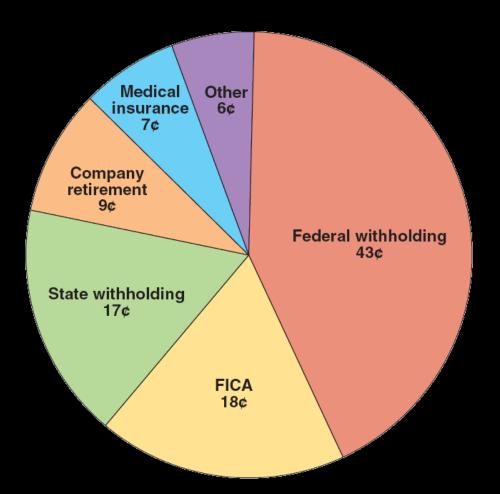
Note: This table contrasts the book value versus the market value of the Employee Retirement Fund, as of December 31, 2010.

# Specific Guidelines for Graphics

#### Pie Charts

- Use Pie Charts Especially for Percentages and Money
- Use No More Than 6 or 7 Divisions
- Move Clockwise from 12:00, from Largest to Smallest Wedge
- Be Creative, But Stay Simple
- Draw and Label Carefully

#### Pie Charts



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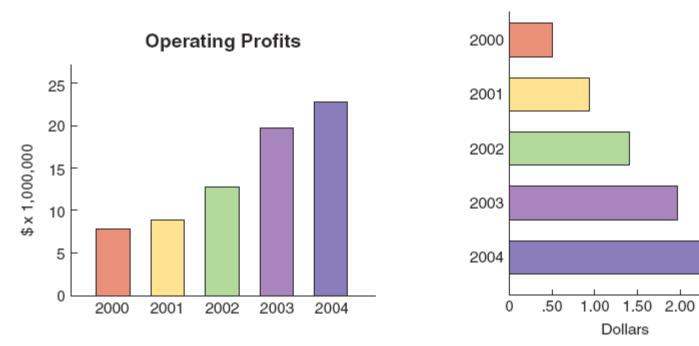
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# Specific Guidelines for Graphics

#### Bar Charts

- Use a Limited Number of Bars
- Show Comparisons Clearly
- Keep Bar Widths Equal and Adjust Space Between Bars Carefully
- Carefully Arrange the Order of Bars
- Be Creative

#### Bar Charts



Income per Share

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2.50

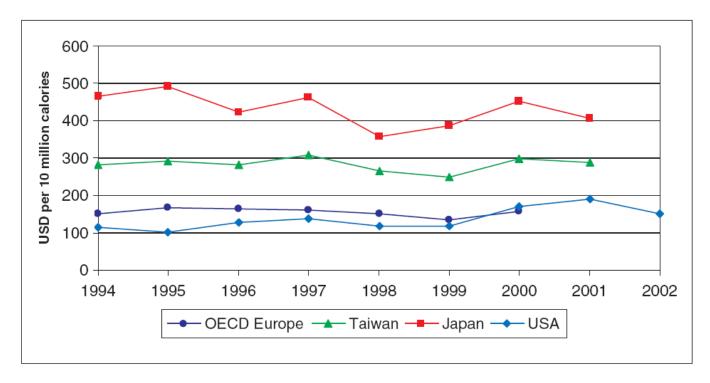
# Specific Guidelines for Graphics

#### Line Charts

- Use Line Charts for Trends
- Locate Line Charts with Care
- Strive for Accuracy and Clarity
- Do Not Place Numbers on the Chart Itself
- Use Multiple Lines with Care

#### Line charts

Figure A9-3: Industrial Sector Gas Prices in the United States, OECD Europe, Japan, and Taiwan, 1994-2002, in 2003 Dollars



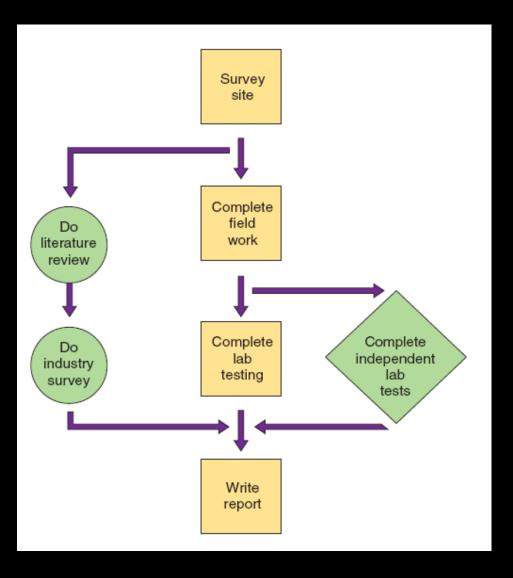
Source: The Economic Future of Nuclear Power: A Study Conducted at The University of Chicago (August 2004): A9-A13.

# Specific Guidelines for Graphics

#### Flowcharts

- Present Only Overviews
- Limit the Number of Shapes
- Provide a Legend When Necessary
- Run the Sequence from Top to Bottom or from Left to Right
- Label All Shapes Clearly

#### Flowcharts



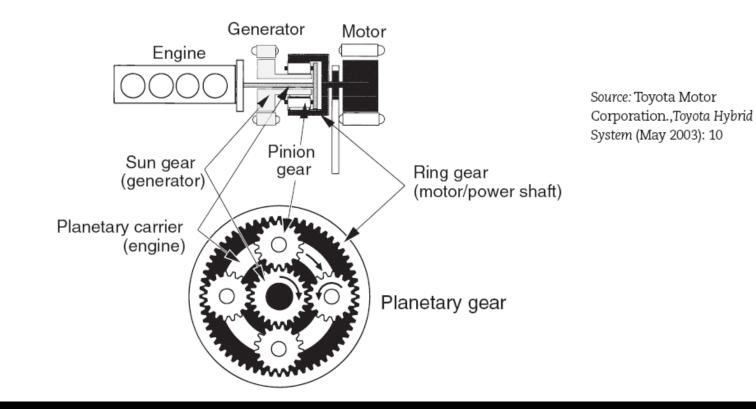
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# Specific Guidelines for Graphics

#### Technical Drawings

- Choose the Right Amount of Detail
- Label Parts Well
- Choose the Most Appropriate View
- Use Legends When There Are Many Parts

# **Technical Drawings**

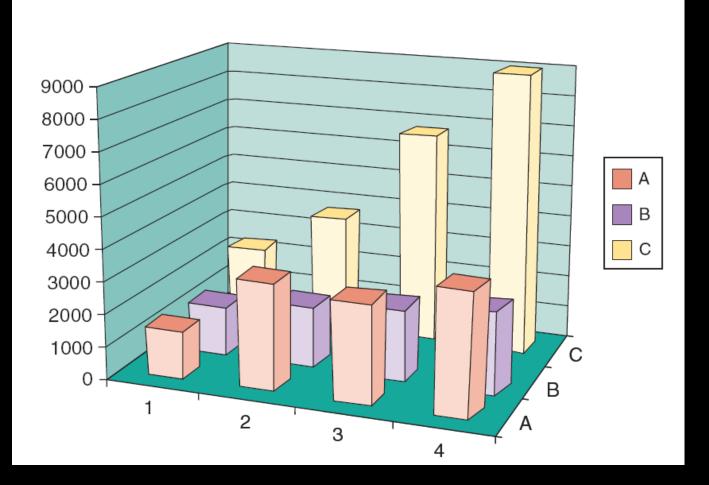


# Misuse of Graphics

Confusing Bar Charts

- Chartjunk
- Confusing Pie Charts

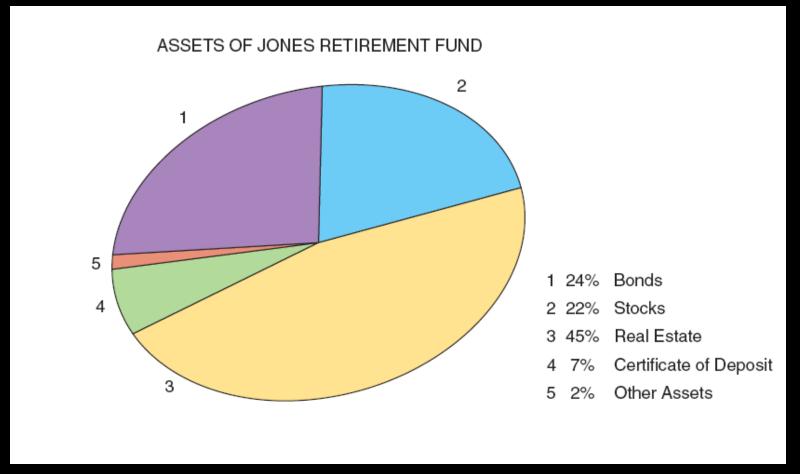
# **Confusing Bar Charts**



# Chartjunk



#### **Confusing Pie Chart**



#### Computers in the Page Design Process

#### Templates

- Quick formatting of documents
- Reuse for multiple documents of the same kind
- Style Sheets
  - Consistent formatting
  - Tagged elements can generate tables of contents

# Computers in the Page Design Process

