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Session 1: Introduction

## **ADVANCED EXCEL 2016**

#### Goals for the Course:

#### To Help You:

- 1. Become more efficient
- 2. Help your coworkers
- 3. Become an Expert

## What's the Most Important Spreadsheet?

- 1. A Budget
- 2. A Ledger
- 3. A Budget Report

#### Session 1 Objectives

- Format a Budget
- Create a Ledger
- Create a Pivot Table
- Create a Report with SUMIFS

#### Questions:

- How many have a Budget?
- How many keep track of expense?
- How many have a Budget Report?



### Dwight D. Eisenhower

"In preparing for battle I have always found that plans are useless

. . .

but planning is indispensable."

## INTRODUCTION TO EXCEL

#### How Do You Get Excel?

- Part of Microsoft Office
- Office 2016
  - Until recently, the latest version
    - Released Sept. 2015
  - Office Home & Student: \$129
- Office 365
  - Rental program
  - \$79/year for 5 users

#### Excel 2019

- Released Sept. 24, 2018
- Includes features already added to Office 365

#### Which Versions for the PC?

Excel 2003 and earlier

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- Excel 2007
- Excel 2010
- Excel 2013
- Excel 2016
- Excel 2019

#### What About the Mac?

- Similar, not quite the same so far
- Single mouse button
- Command key vs Control key

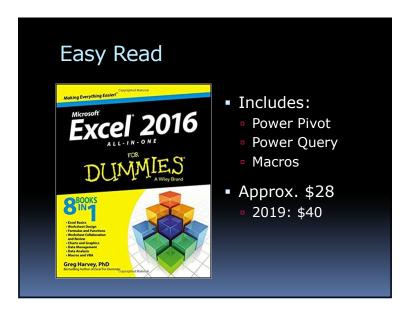
#### Excel for Free?

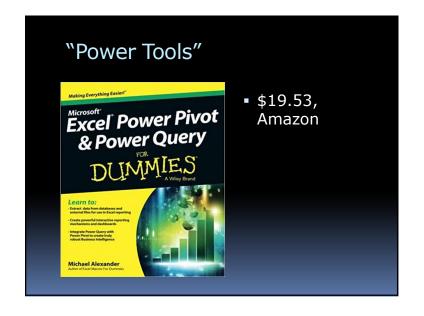
- Simple on-line version
- www.office.com
- Limited tools
- Good for collaboration/groups

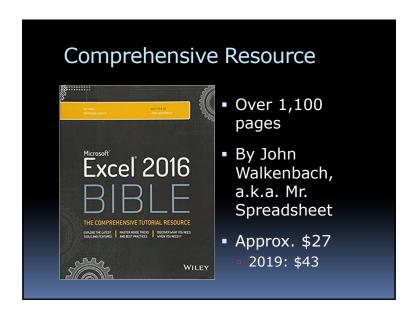
#### Are There Any Alternatives?

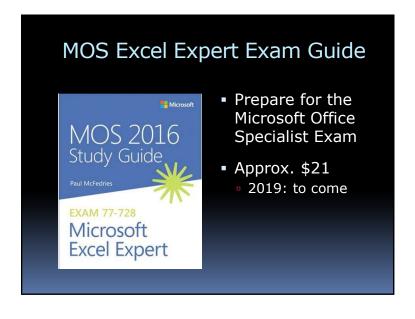
- LibreOffice or OpenOffice
  - Download for free
- Google Drive
  - Online, limited, free
- Apple Numbers
  - Download and Online, free
  - Very different user interface











## ONLINE TRAINING

#### Microsoft Training Videos

- Dozens of short videos
  - E.g., "IF Function"
- Go to:
  - https://support.office.com/enus/article/excel-for-windows-videotraining-9bc05390-e94c-46af-a5b3d7c22f6990bb

#### Lynda.com

- Now: "LinkedIn Learning"
- Hundreds of video courses
- Approx. \$30/month
- Free at some local libraries

#### **Universal Class**

- Online courses
- Available at Norwalk Library

#### Udemy.com

- Hundreds of courses
- About \$10 each



#### "Excel Is Fun" — YouTube

- YouTube channel:
- Over 3,000 free videos
- Mike Girvin, Highline Commun. Coll.
  - Near Seattle, Washington



#### Other Resources

- Google
- YouTube

#### **Excel Tables** — Advantages

- Beautiful formats
- Automatic Total Rows
- Formulas automatically copied
- Dynamic
- Column names in formulas
- Filter easily with Slicers

#### **Absolute References (\$)**

- Formula addresses to not change when copied
- Examples:

=\$B\$4 Freezes column & row

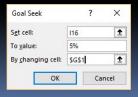
= \$B4 Freezes only column

=B\$4 Freezes only row

Shortcut: F4 key

#### **Goal Seek**

- Automatically changes one cell so that another achieves a certain result
- Click: Data > What-if > Goal Seek





#### **TEXT** Function

=TEXT(Value, Format Code)

#### Example:

Cell B3: 4/1/18

=TEXT(B3,"mmmm d, yyyy")

Result: April 1, 2018

TEXT Function Date Format Codes			
	Code	Possible Result	
	"m"	1	
	"mm"	01	
	"mmm"	Jan	
	"mmmm"	January	
	"d"	2	
	"dd"	02	
	"ddd"	Mon	
	"dddd"	Monday	
	"уу"	18	
	"уууу"	2018	

#### **SUMIFS Function**

- Adds values that meet one or more conditions
- =SUMIFS(sum\_range, criteria\_range1, criteria1, [criteria\_range2, criteria2], ...)
- Better than the SUMIF function
  - Which handles only one criterion



Which Function will add up only those numbers linked to a particular category?

- 1. SUM
- 2. SUMIF
- 3. SUMIFS
- 4. SUBTOTAL

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### What is the advantage of using an Excel Table?

- 1. Banded rows
- 2. Named ranges in formulas
- 3. Slicers
- 4. All of the above

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# SUMMARY



