

Agenda

- Welcome
- Introduction to Excel
- The Microsoft Office User Interface
- The Excel User Interface
- How to Work with Excel
- First Project: Restaurant Bill
- Homework Assignment



Course Details

- Instructor: Rich Malloy
 Adjunct Professor, NCC
 Computer Consultant
- Tuesdays, 6-9pm, 9/14 10/19
- Class Website: bit.ly/ncc-excel

The Class Website

- Go to: bit.ly/ncc-excel
- Source for:
 - Slide shows
 - Workbooks
 - Videos
- Will remain available after course

How to Take Part in the Course

- A recent copy of Excel is needed
 - Prefer Windows, but Mac is OK
 - Free versions available
- If you have problems ...
 - Don't hesitate to speak up

Student Benefits

- Student Email Address
 - Primary way for college to contact you
- Free Software
- Student Discounts
 - Use your .edu student email address
- College Gym
 Is it open yet?



What Can Excel Do for Us?

- 1. Organize Data in Tables
- 2. Do Calculations
- 3. Create Charts & Graphs

Why Do We Want to: 1. Organize Data in Tables 2. Do Calculations 3. Create Charts & Graphs



What's the Best Program for Keeping Track of Money?

- An Accounting Program such as QuickBooks
- But Excel is much more versatile!

How Do You Get Excel?

- Part of Microsoft Office
- Office 2019
 - Latest version
 - Office Home & Student: \$129
- Office 365
 - Rental program
 - \$79/year for 5 users

Which Versions for the PC?

- Excel 2003 and earlier
- Excel 2007
- Excel 2010
- Excel 2013
- Excel 2016
- Excel 2019

What About the Mac?

- Similar, not exactly the same, yet
- Single mouse button
- Command key vs Control key

Excel for Free?

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

Are There Any Alternatives?

- LibreOffice or OpenOffice
 - Download for free
- Google Drive
 - Online, limited, free
- Apple NumbersDownload and Online, freeDifferent user interface

Free for NCC Students!

Go to: norwalk.edu
 Click: MYCOMMNET

3. Click: LOG IN

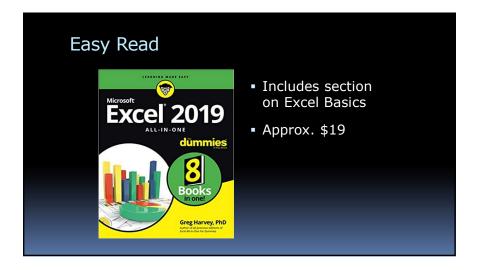
4. Enter your Student ID & Password

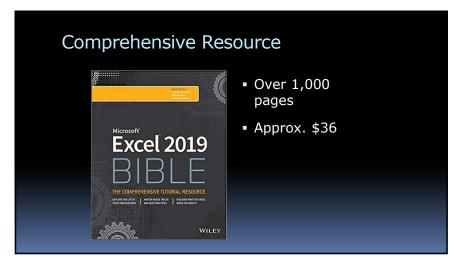
5. Click the link for Outlook

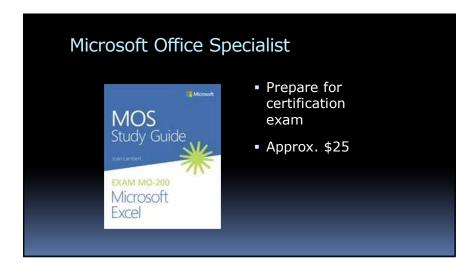
6. Click the App Launcher button

7. Click: Office 3658. Click: Install Office

SUGGESTED BOOKS









Microsoft Training Videos

- Dozens of short videos
 - E.g., "IF Function"
- Go to:
 - https://support.office.com/en-us/article/excel-forwindows-video-training-9bc05390-e94c-46af-a5b3d7c22f6990bb

Lynda.com

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

Udemy.com

- Hundreds of courses
- About \$10 each

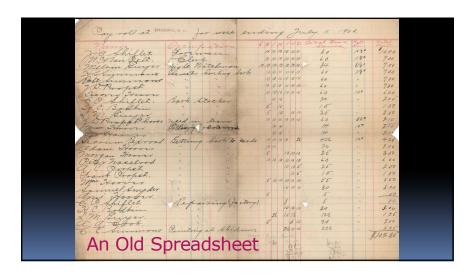
Other Resources

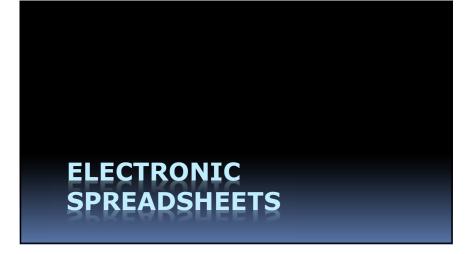
- Google
- YouTube

MOS Certification

- Become "Microsoft Certified"
- 90-Minute Exam
- Approx. \$130 for two attempts
- Nearest: Westchester Comm. Coll.
- For more info:
 - https://www.microsoft.com/en-us/learning/moscertification.aspx







A Typical Spreadsheet

Cash Flow Comparison		
Actual versus Budget		
		Jan-06
	Estimated	Actual
Cash balance (start of month)	\$ 1,500.00	\$ 1,500.00
Receipts		
Cash sales	1,700.00	1,852.00
Cash expentitures		
Advertising	200.00	211.00
Wages	900.00	900.00
Supplies	100.00	81.00
Total cash expentitures	1,200.00	1,192.00
Net cash flow	500.00	660.00
Cash balance (end of month)	\$ 2,000.00	\$ 2,160.00

Formulas

Cash Flow Comparison			
Actual versus Budget			
		Jan-06	
	Estimated	Actual	
Cash balance (start of month)	\$ 1,500.00	\$ 1,500.00	
Receipts			
Cash sales	1,700.00	1,852.00	
Cash expentitures			
Advertising	200.00	211.00	
Wages	900.00	900.00	
Supplies	100.00	81.00	
Total cash expentitures	1,200.00	1,192.00	
Net cash flow	500.00	660.00	
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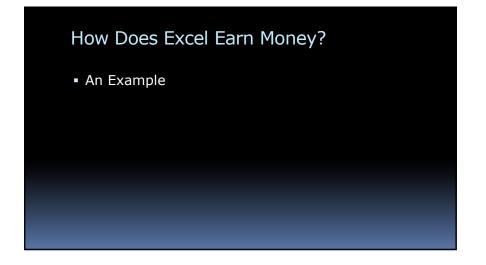
What If ... ?

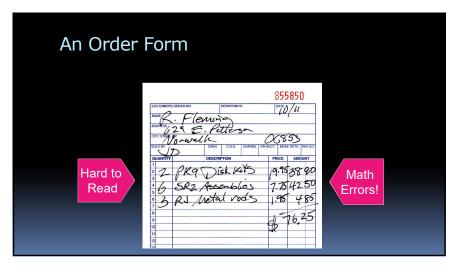
Cash Flow Comparison			
Actual versus Budget			
		Jan-06	
	Estimated	Actual	
Cash balance (start of month)	\$ 1,500.00	\$ 1,500.00	
Receipts			
Cash sales	1,700.00	1,852.00	_
Cash expentitures			Increase
Advertising	200.00	211.00	by \$100
Wages	900.00	900.00	_
Supplies	100.00	81.00)
Total cash expentitures	1,200.00	1,192.00	
Net cash flow	500.00	660.00	
Cash balance (end of month)	\$ 2,000.00	\$ 2,160.00)

The Impact

Cash Flow Comparison		
Actual versus Budget		
		Jan-06
	Estimated	Actual
Cash balance (start of month)	\$ 1,500.00	\$ 1,500.00
Receipts		
Cash sales	1,700.00	1,852.00
Cash expentitures		
Advertising	200.00	211.00
Wages	900.00	900.00
Supplies	100.00	181.00
Total cash expentitures	1,200.00	1,292.00
Net cash flow	500.00	560.00
Cash balance (end of month)	\$ 2,000.00	\$ 2,060,00

Recalculates Automatically





CAN EXCEL DO BETTER?



The Office User Interface

Top Row:

- Quick Access Toolbar
 - Add frequently used tools
- Title Bar
 - For moving the window & Snap
- Window Sizing Buttons
 - Minimize, Maximize/Restore, Close

The Office User Interface

The Ribbon:

- Ribbon Tabs & File Menu
 - File, Home, Insert, etc.
- Groups
 - To make it easier to find controls
- CommandsButtons, List boxes, Text boxes

The Office User Interface

The Status Bar

- The Bottom Row
- Various properties at the Left
- View Button at the Right
- Zoom Controls at Far Right

The Office User Interface

Quick Tips:

- Screen Tips
 - Revealed when mouse pointer hovers over an object
- Context Menu
 - Revealed when you click right mouse button (or Control + mouse button on the Mac)
- Alt Key

To access controls via keyboard, w/o mouse

THE EXCEL USER INTERFACE

The Excel Interface

- Name Box
- Formula Bar
- Worksheet Grid
 - Columns, Rows, Cells

The Excel Interface

- Active Cell
 - Thick border and Fill Handle at LR
- Worksheet Tabs
 - Workbooks can have many pages
- Status Bar
 - Modes: Ready, Edit, Point
 - Summaries: Average, Count, and Sum

Navigating a Worksheet

- Mouse
 - Click any cell, or use scroll wheel
- Arrow Keys
 - Also: PgUp and PgDn
- Name Box
- "Go To" Command

 Click: Home > Find & Select > Go To...

Fast Navigation Keys

- Ctrl + Home: Upper Left of Sheet
- Ctrl + End: Lower Right of Sheet
- Ctrl + Down Arrow: Bottom of Column
- Home: Leftmost cell in a row
- End: Rightmost cell in a row

Editing Cells

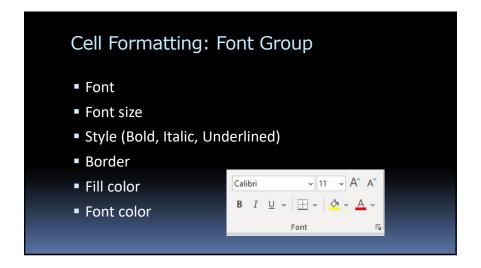
- Enter data with the Enter key
- 2 Ways to Edit data:
 - Formula bar
 - Double-click cell
- Copy and Paste
- Fill Handle
- Series

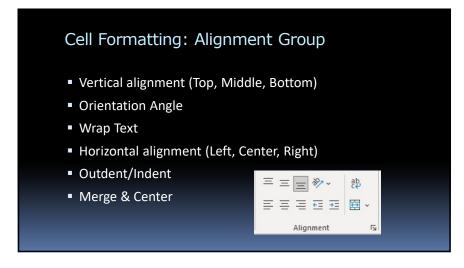
Editing Cells

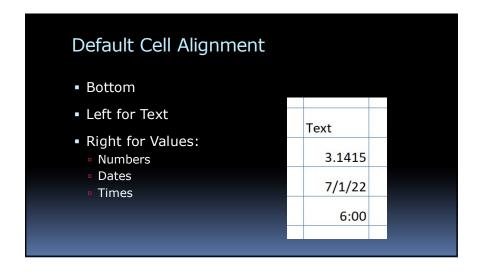
- 3 Types of Cell Contents:
- Text
- Values:
 - Numbers, Dates, Times
- Formulas

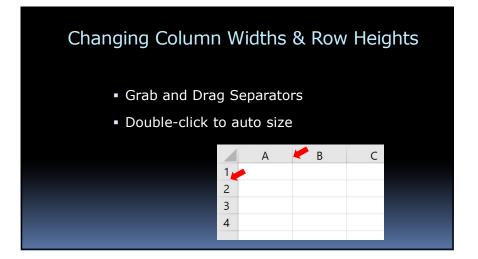
Selecting Ranges

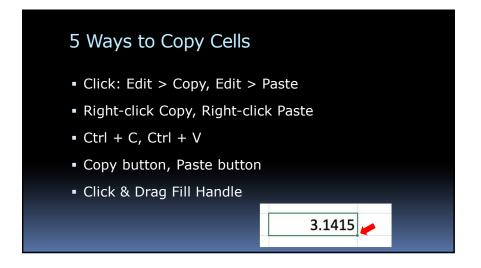
- With the mouse
- With the keyboard
- With the Control key

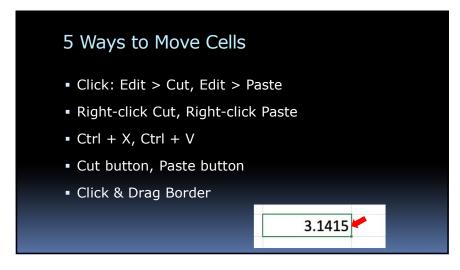


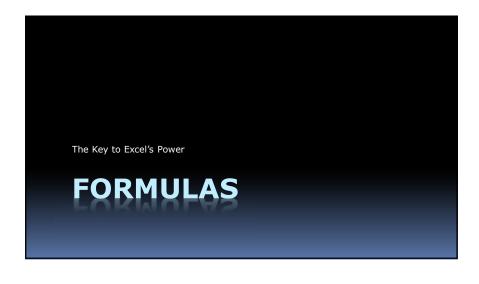


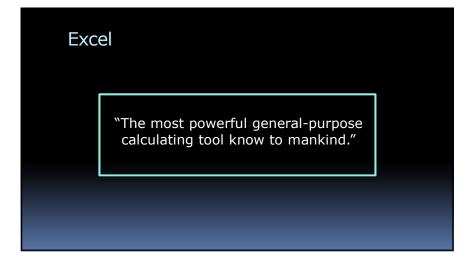












The Key to Excel's Power?

Formulas

Formulas: The Basic Operations

- Addition: +
- Subtraction: —
- Multiplication: *
- Division: /

(Parentheses)

- Not needed usually
- Use to change order of operations:

Average =
$$(D2 + D3) / 2$$

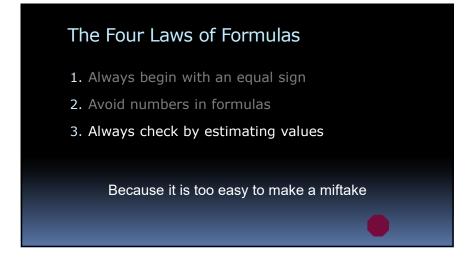
Or in Functions:

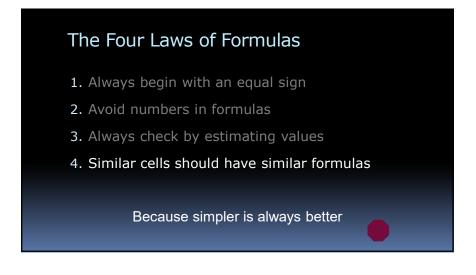
Average = AVERAGE(D2,D3)

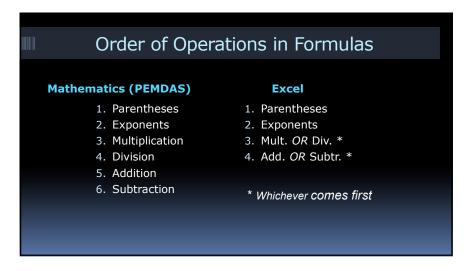
The Four Laws of Formulas

1. Always begin with an equal sign

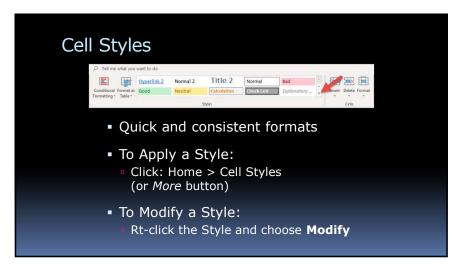
The Four Laws of Formulas 1. Always begin with an equal sign 2. Avoid numbers in formulas Why? Because numbers always change

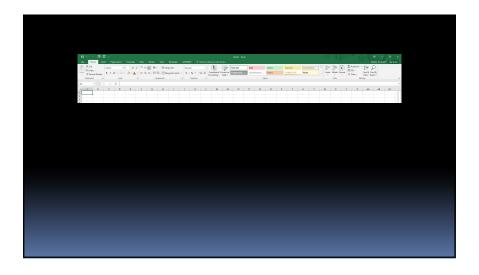














Homework - 1 • Go to: bit.ly/ncc-excel • Click link for Basic Excel Exercises Insert formulas into the yellow cells as described: Add the Bonus to the Salary Salary Bonus Total \$12,567.3 \$2,43.27 Total \$2,14.8 \$7 \$34.3 \$7 Doi: 0.00 the increase by the Total Increase Total Increase \$82,924 \$2,764.12 Increase

Homework - 2

- Create simple check register
- Click link for: Checkbook-Register-Project
- http://techhelptoday.com/excel-class/

1	A	В	C	D	E	F	G
1	Number	Date	Description	Debit	Cleared	Credit	Balance
2							2,000.00
3	101	1/3/19	Dry cleaners	89.32	V		1,910.6
4	102	1/4/19	Cable TV	114.87	✓		1,795.83
5		1/6/19	ATM cash withdrawal	100.00	V		1,695.8
6	103	1/7/19	Utility bill	256.87	V		1,438.9
7		1/9/19	Deposit		✓	1,500.00	2,938.9
8	104	1/15/19	Rent	1,250.00			1,688.9
9							1,688.9
10							1,688.9
11							1,688.9
12			Total	1,811.06		1,500.00	

Next Week:

- More Formulas
- Functions
- Budgets