

It's All About the Numbers

Don McAllister

Host/Producer of ScreenCasts**ONLINE**

MacMania 15 - November 2012

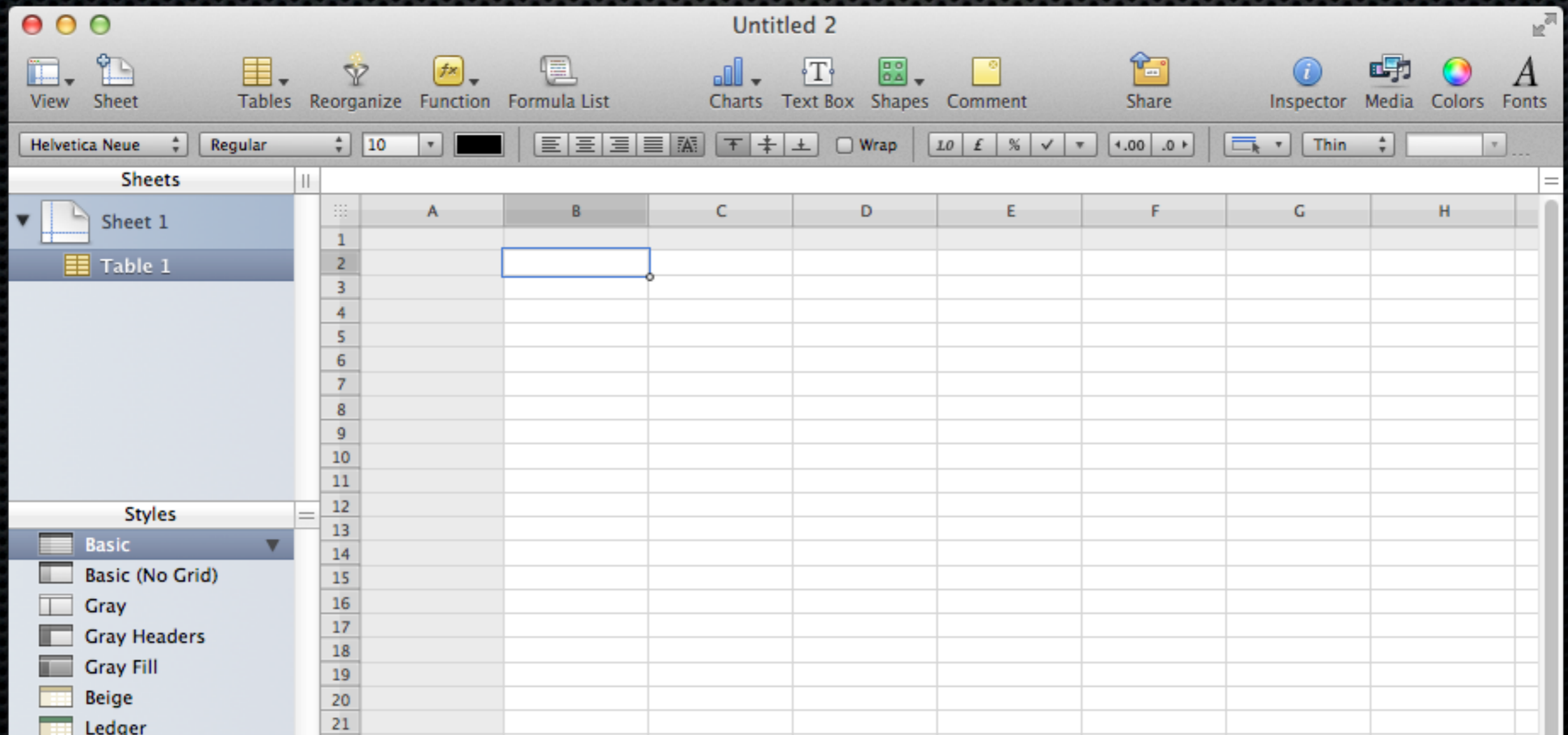
Session Contents

- ✦ History Of The Spreadsheet
- ✦ Spreadsheet Fundamentals
- ✦ Numbers for the Mac
- ✦ Numbers for iOS
- ✦ Excel - Pivot Tables
- ✦ Q & A

**No previous spreadsheet
knowledge assumed
Beginners Level**

What is a Spreadsheet?

A spreadsheet is an interactive computer application program for organization and analysis of information in tabular form



History Of The SpreadSheet

VisiCalc - Apple II
1979



VisiCalc first launched on the Apple II - turned the Apple II from a hobbyist's toy to a useful tool for business.

VisiCalc - IBM PC
1981



IBM PCs Killer Application

MS Multiplan - CP/M & MS-DOS
1982

Became very popular on CP/M systems, but on MS-DOS systems it lost popularity to Lotus 1-2-3

VisiCalc - HP150
1983




My first introduction to the spreadsheet and a "Business PC"
It even had a touchscreen!

MS Excel 1.0
1985



Excel began life on the Macintosh

Lotus 1-2-3
1983



Improved speed and graphics over VisiCalc

Lotus 1-2-3 for Macintosh
1991



Ported to the Macintosh

Excel 1.0 on Windows
1987

Excel 4.0
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Excel for Windows 95
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Excel 2001
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Excel 97
1997

Excel 2000
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Excel 2002
2001

Excel 2003
2003

Numbers 1.0
2007



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Excel 2010
2010

Numbers for iOS
2010



Launched for the iPad

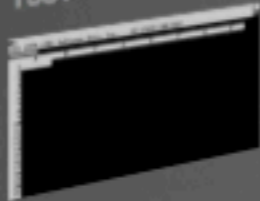
1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 UNTITLED NOW

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VisiCalc - IBM PC 1981



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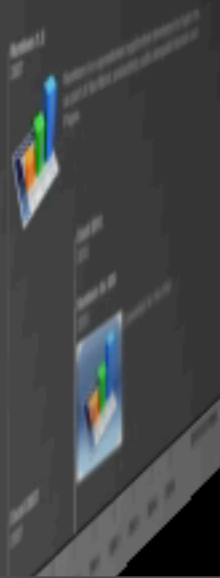
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Lotus 1-2-3 for Macintosh
Ported to the Macintosh



Excel for Windows 3.0



Excel 1985



Excel 1987



Excel 1989



Excel 1990



Excel 1992



Excel 1993



Excel 1995



Excel 1997



Excel 2000

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Excel began life on the Macintosh

Lotus 1-2-3 for Macintosh 1987



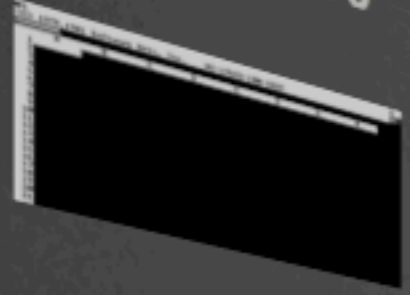
Ported to the Macintosh

Excel for Windows 3.1	Excel 3.0	Excel 2000	Excel 2003	Excel 2007	Excel 2010	Excel 2013	Excel 2016	Excel 2019
1985	1987	1999	2000	2003	2007	2010	2013	2019





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Excel 2007

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Excel 2010

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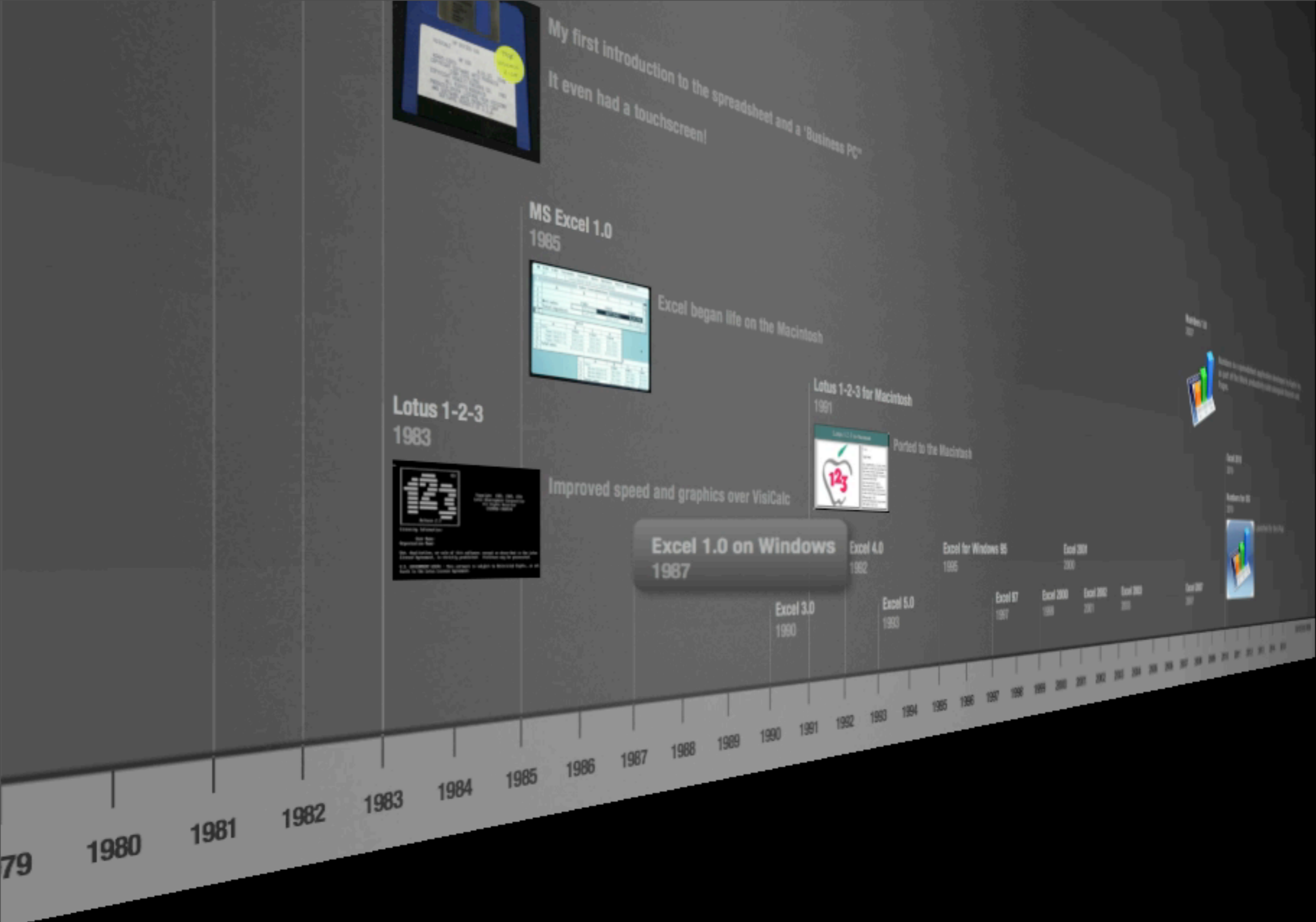
1998

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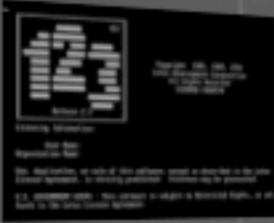
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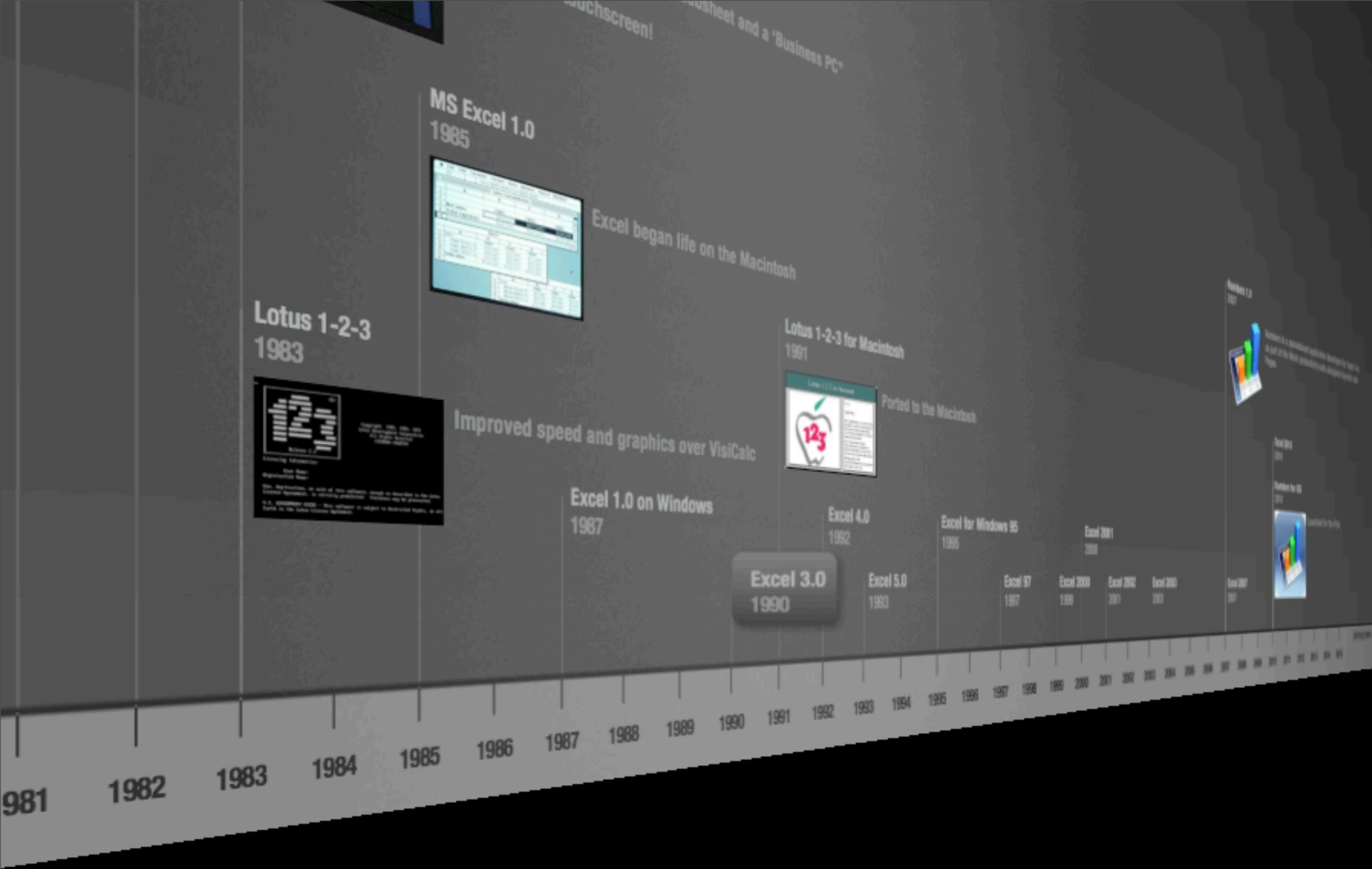
Excel 2000
2000

Excel 2007



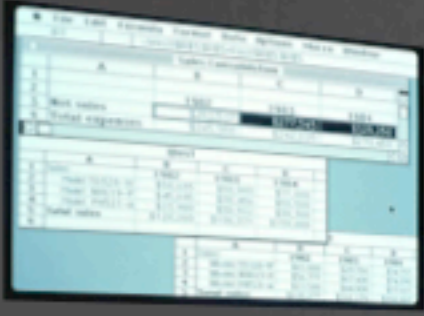
Excel 2010





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2003

Excel 2007
2007

Numbers 1.0
2007



Numbers is a spreadsheet application developed by Apple Inc. as part of the iWork productivity suite designed for the Mac OS X operating system.

Excel 2010
2010

Numbers for OS
2010



Numbers for OS
2010

Lotus 1-2-3
1983

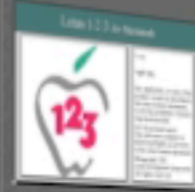


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Excel 2003
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Excel 2007
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Excel 2010
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Excel 2011
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Excel 2013
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Excel 2016
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Numbers 1.0
2003



Excel 2014
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Numbers for iOS
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Numbers for iPad
2014

Numbers for iPhone
2014

Numbers for Mac
2014

Numbers for Windows
2014

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MS Excel 1.0
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1-2-3



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Excel 2007
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Excel 2010
2010

Excel 2011
2011

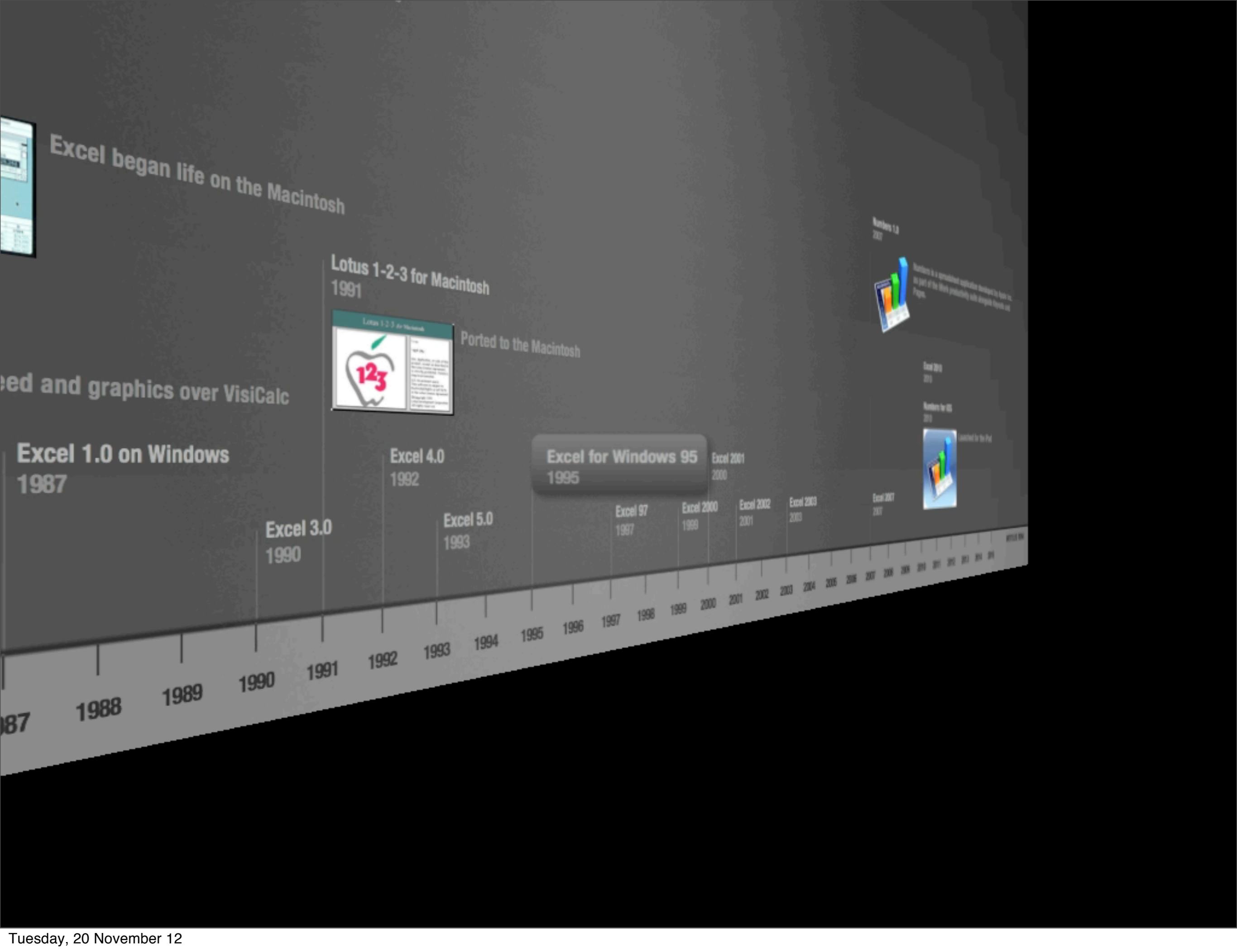


Excel 2017
2017



Excel 2017 is a spreadsheet application developed by Microsoft as part of the Microsoft Office suite through Office 365.



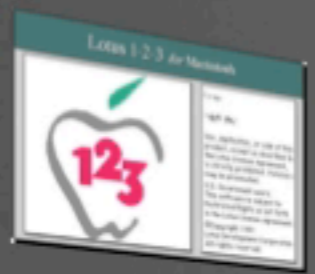


Excel began life on the Macintosh

graphics over VisiCalc

1.0 on Windows

Lotus 1-2-3 for Macintosh
1991



Ported to the Macintosh

Excel 3.0
1990

Excel 4.0
1992

Excel 5.0
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Excel for Windows 95
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Excel 2002
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Excel 2003
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Excel 2007
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Numbers 1.0
2007

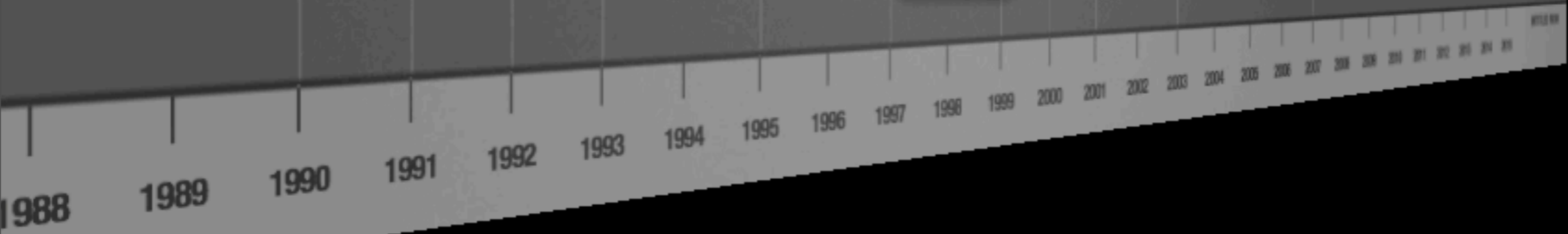


Numbers is a spreadsheet application developed by Apple as part of the iWork productivity suite designed for use on the Mac OS X operating system.

Excel 2010
2010

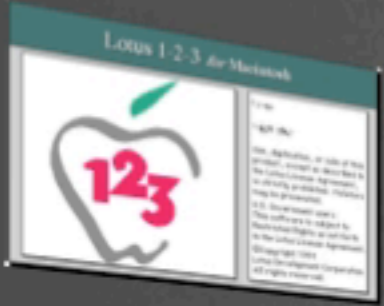
Numbers for iOS
2010

Numbers for the iPad



Macintosh

Lotus 1-2-3 for Macintosh
1991



Ported to the Macintosh

Calc

Numbers 1.0
2007



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Excel for Windows 95
1995

Excel 2001
2000



Excel 2000
1999

2002

Excel 2003
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Excel 2007
2007

Excel 2010
2010



Numbers for iOS
2010

Launched for the iPad

Excel 3.0
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Excel 5.0
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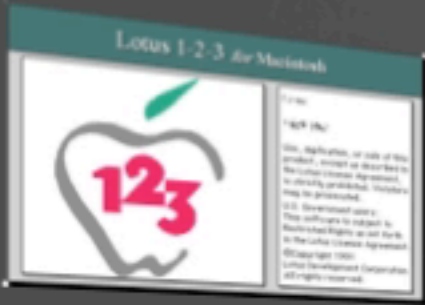
2014

2015

© 2015 MSN

sh

Lotus 1-2-3 for Macintosh 1991



Ported to the Macintosh

Excel 4.0
1992

Excel 5.0
1993

Excel for Windows 95
1995

Excel 97
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Excel 2000
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Excel 2001
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Excel 2002
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Excel 2003
2003

Excel 2007
2007

Excel 2010
2010

Numbers for iOS
2010

Numbers 1.0
2007



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Launched for the iPad

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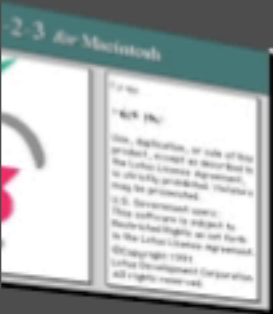
2013

2014

2015

Microsoft

-2-3 for Macintosh



Ported to the Macintosh

Numbers 1.0
2007



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Excel 2010
2010

Numbers for iOS
2010



Launched for the iPad

Excel 2007
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Excel for Windows 95
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Excel 2007
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Numbers 1.0
2007



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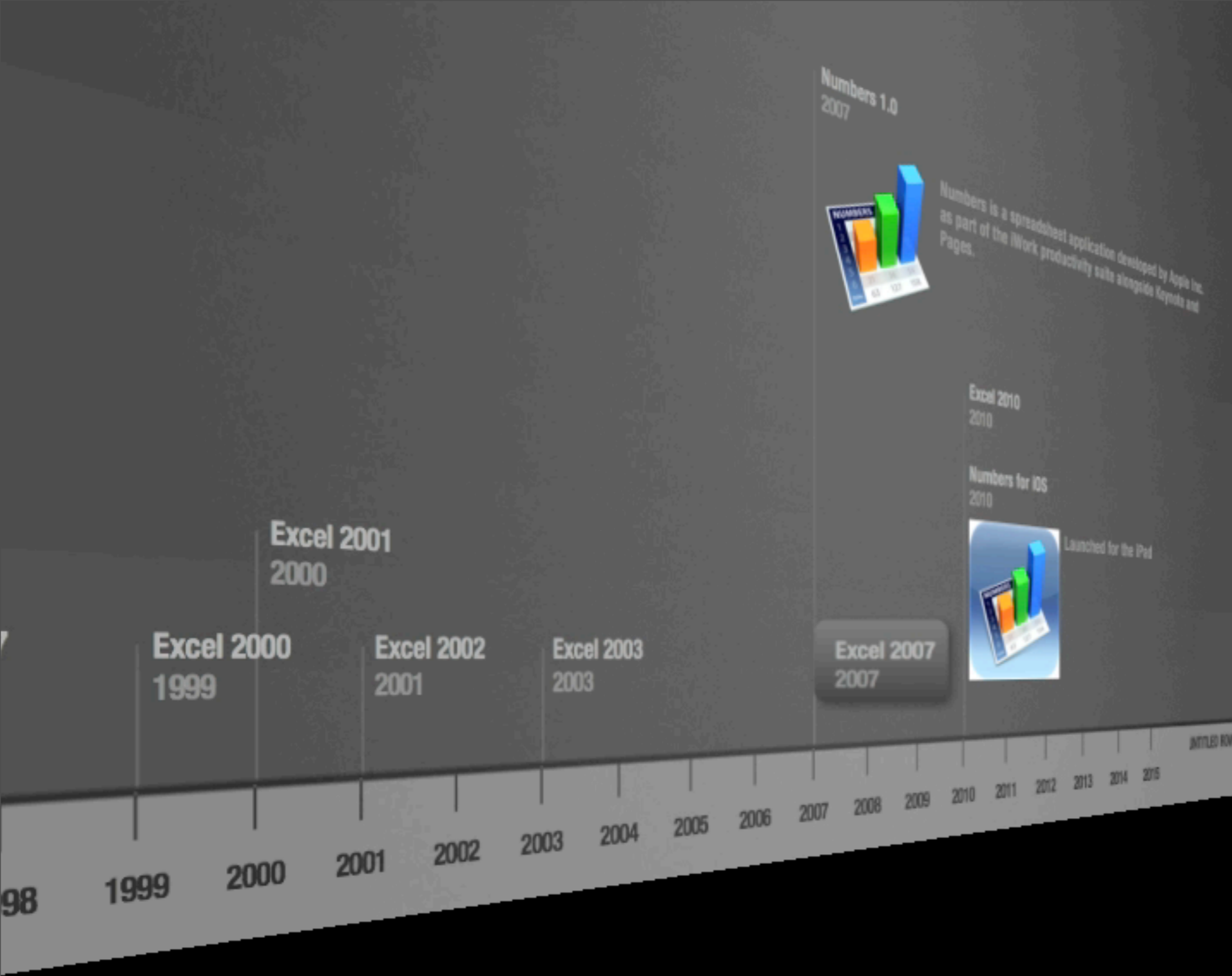
Excel 2010
2010

Numbers for iOS
2010



Launched for the iPad





Numbers 1.0 2007



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Excel 2010
2010

Numbers for iOS
2010

Launched for the iPad



Excel 2007
2007

2013

2014

2015

UNTITLED ROW

001

Excel 2002
2001

Excel 2003
2003

Excel 2007
2007

Numbers 1.0
2007



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Excel 2010
2010

Numbers for iOS
2010



Launched for the iPad

2003

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2015

UNTITLED ROW

Numbers 1.0
2007



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Excel 2010
2010

Numbers for iOS
2010



Launched for the iPad

Excel 2007
2007

2003



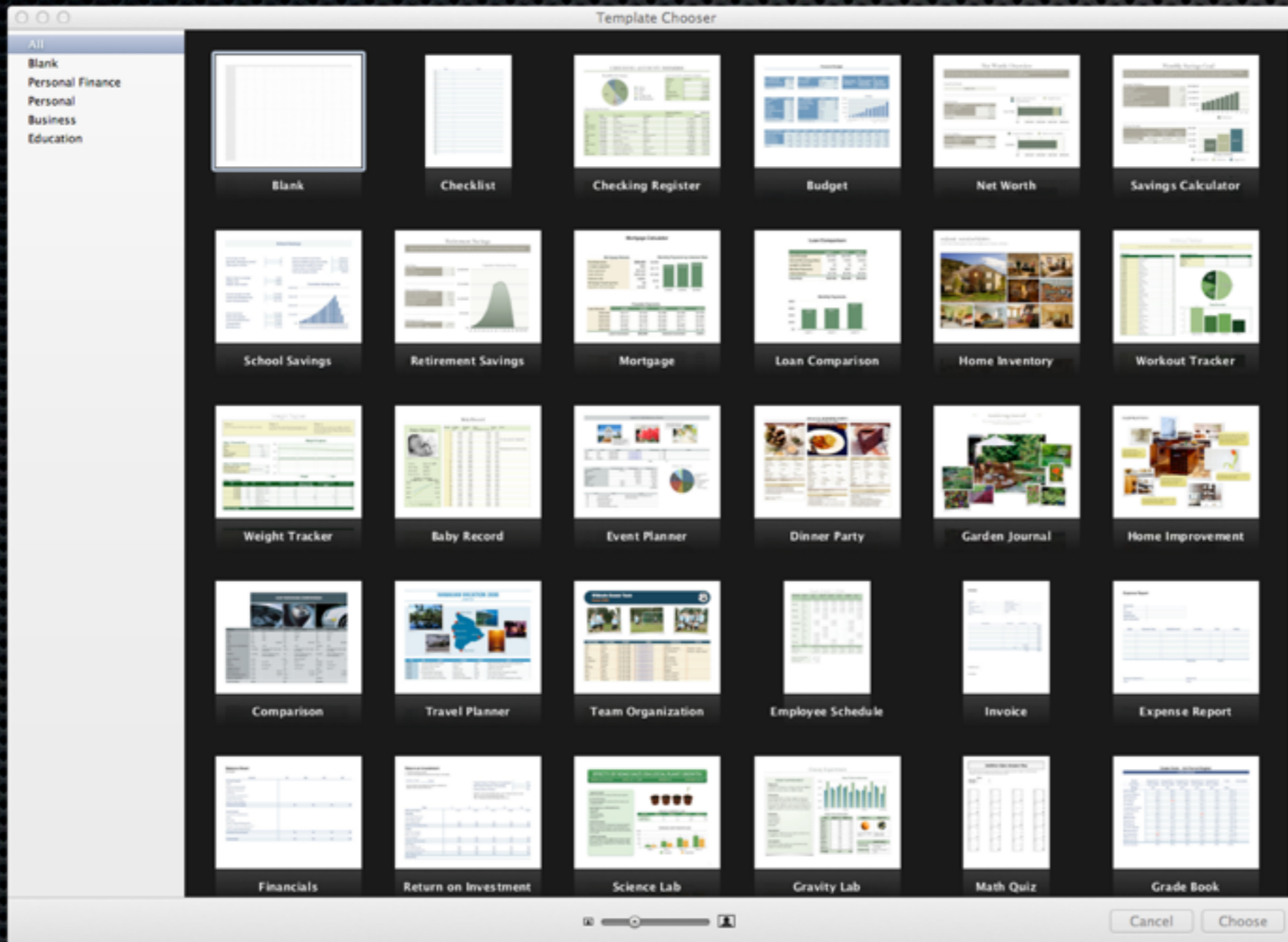
Two Horse Race for Mac users



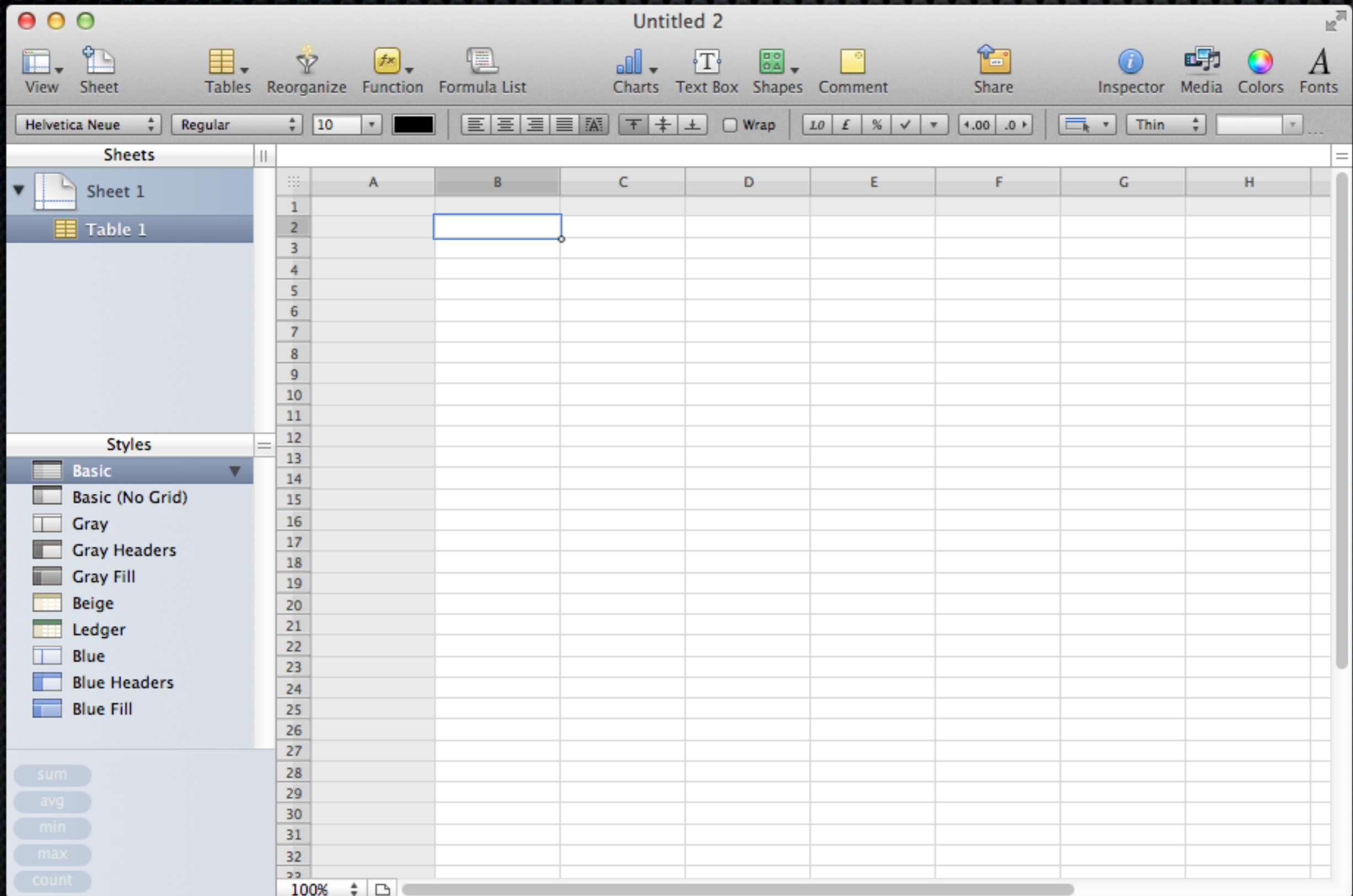
Google Docs
Collaborative Spreadsheets

Spreadsheet Fundamentals

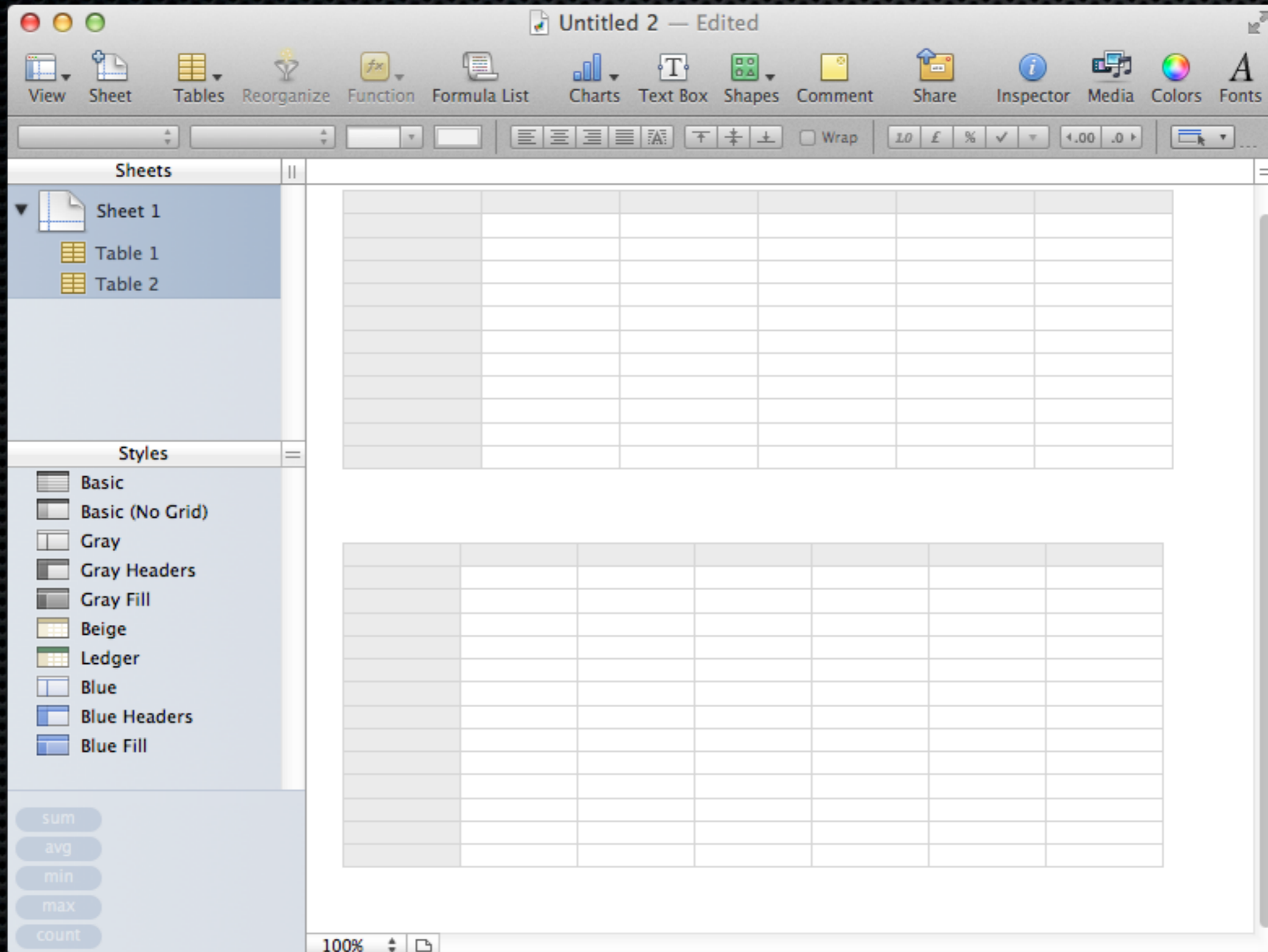
Going to use Numbers on the Mac



Spreadsheet Fundamentals - Cells



Spreadsheet Fundamentals - Sheets & Tables



Spreadsheet Fundamentals - Formulas

The screenshot shows a spreadsheet application window titled "Untitled 2 - Edited". The interface includes a menu bar with options like View, Sheet, Tables, Reorganize, Function, Formula List, Charts, Text Box, Shapes, Comment, and Share. Below the menu bar is a formatting toolbar with options for font (Helvetica Neue, Regular, size 10), text alignment, and wrap. The spreadsheet grid shows a formula being entered in cell D2: $\text{= Mileage 1999 * Cost Per Mile 1999}$. The data in the spreadsheet is as follows:

	A	B	C	D	E
1	Year	Mileage	Cost Per Mile	Total	
2	1999	20,000	\$3	\$60,000	
3	2000				
4	2001				
5					
6					
7					
8					
9					
10					

Spreadsheet Fundamentals - Formulas

The screenshot shows a spreadsheet application window titled "Untitled 2 - Edited". The interface includes a menu bar with options like View, Sheet, Tables, Reorganize, Function, Formula List, Charts, Text Box, Shapes, Comment, and Share. Below the menu bar is a formatting toolbar with font settings (Helvetica Neue, Regular, size 10) and alignment options. The spreadsheet grid has columns A through E and rows 1 through 10. The formula bar at the top of the grid shows the formula being entered: `=Total 1999 * $Mileage $Sales Tax`. The data in the spreadsheet is as follows:

	A	B	C	D	E
1	Year	Mileage	Cost Per Mile	Total	Sales Tax Paid
2	1999	20,000	\$3	\$60,000	\$15,000
3	2000				
4	2001				
5					
6					
7	Sales Tax	25%			
8					
9					
10					

Spreadsheet Fundamentals - Formulas

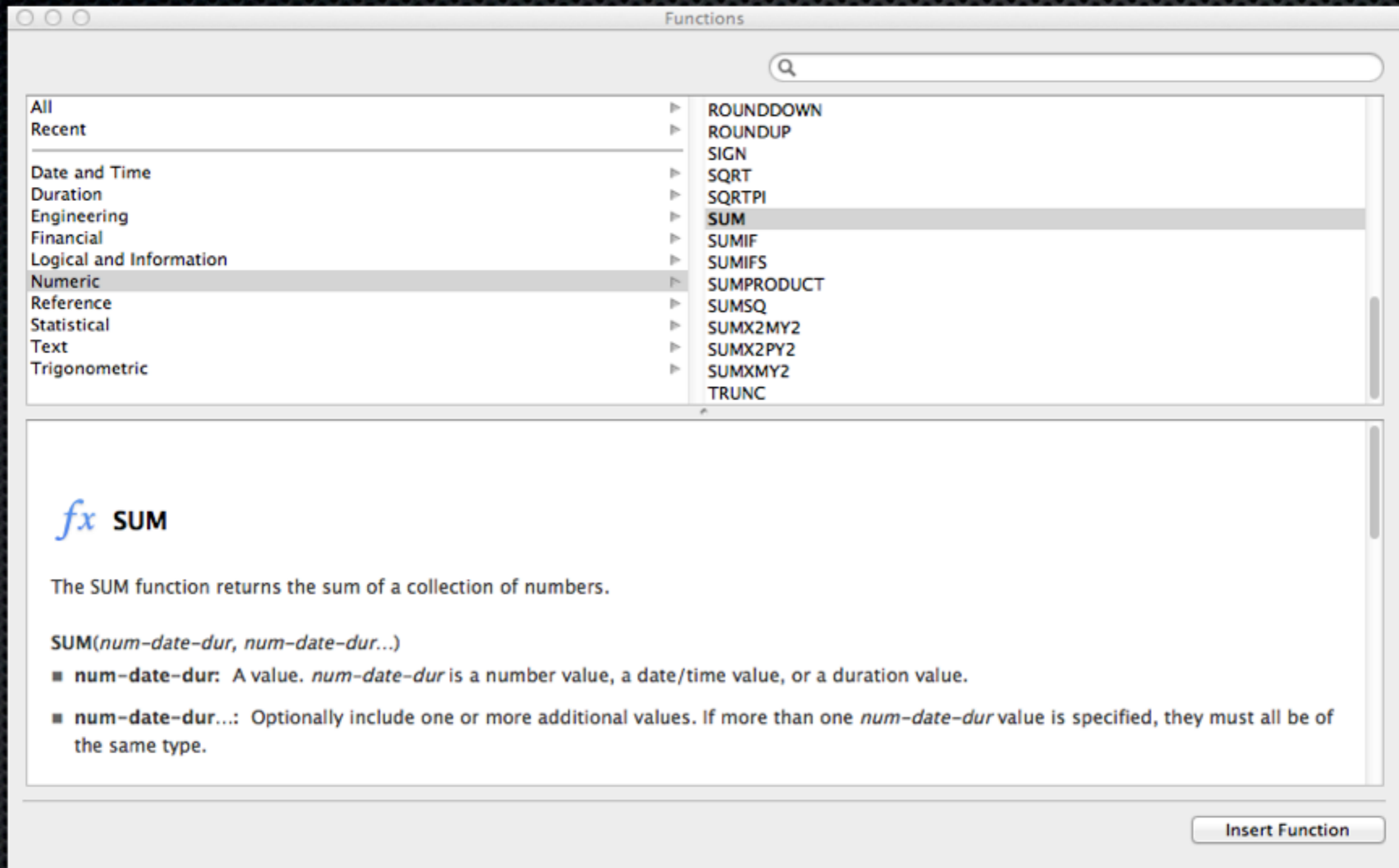
The screenshot shows a spreadsheet application window titled "Untitled 2 - Edited". The main workspace contains a table with the following data:

Year	Mileage	Cost Per Mile	Total	Sales Tax Paid
1999	20,000	\$3	\$60,000	\$15,000
2000				
2001				
Sales Tax				
	25%			

The spreadsheet interface includes a top toolbar with icons for View, Sheet, Tables, Reorganize, Function, Formula List, Charts, Text Box, Shapes, Comment, Share, Inspector, Media, Colors, and Fonts. A left sidebar shows the "Sheets" panel with "Sheet 1" and "Table 1", and a "Styles" panel with various formatting options like Basic, Gray Headers, and Blue Headers. At the bottom, a "Formula List" panel shows the following entries:

Location	Results	Formula
▼ Sheet 1		
▼ Table 1		
D2	\$60,000	=Mileage 1999*Cost Per Mile 1999
E2	\$15,000	=Total 1999*\$Mileage \$'Sales Tax '

Spreadsheet Fundamentals - Functions



The screenshot shows a 'Functions' dialog box with a search bar at the top right. On the left, a list of function categories is shown, with 'Numeric' selected. On the right, a list of functions is displayed, with 'SUM' highlighted. Below the list, the 'SUM' function is detailed with its syntax and arguments.

fx SUM

The SUM function returns the sum of a collection of numbers.

SUM(*num-date-dur*, *num-date-dur*...)

- **num-date-dur**: A value. *num-date-dur* is a number value, a date/time value, or a duration value.
- **num-date-dur...**: Optionally include one or more additional values. If more than one *num-date-dur* value is specified, they must all be of the same type.

Insert Function

Spreadsheet Fundamentals - Functions

The screenshot shows a spreadsheet application window titled "Untitled 2 - Edited". The interface includes a menu bar with options like View, Sheet, Tables, Reorganize, Function, Formula List, Charts, Text Box, Shapes, Comment, and Share. Below the menu bar is a toolbar with various icons for formatting and editing. The main area displays a spreadsheet with the following data:

	A	B	C	D	E
1	Year	Mileage	Cost Per Mile	Total	Sales Tax Paid
2	1999	20,000	\$3	\$60,000	\$15,000
3	2000	15,000	\$3	\$45,000	\$11,250
4	2001	12,000	\$3	\$36,000	\$9,000
5	Total	47,000			
6					
7	Sales Tax	25%			
8					
9					
10					

The formula bar at the top shows the formula `=SUM(B2:B4)` being entered into cell B5. The spreadsheet also shows a sidebar with "Sheets" and "Styles" panels. The "Sheets" panel shows "Sheet 1" and "Table 1". The "Styles" panel shows various style options like "Basic", "Basic (No Grid)", "Gray", "Gray Headers", and "Gray Fill".

Numbers for the Mac

Demo



Numbers for the Mac

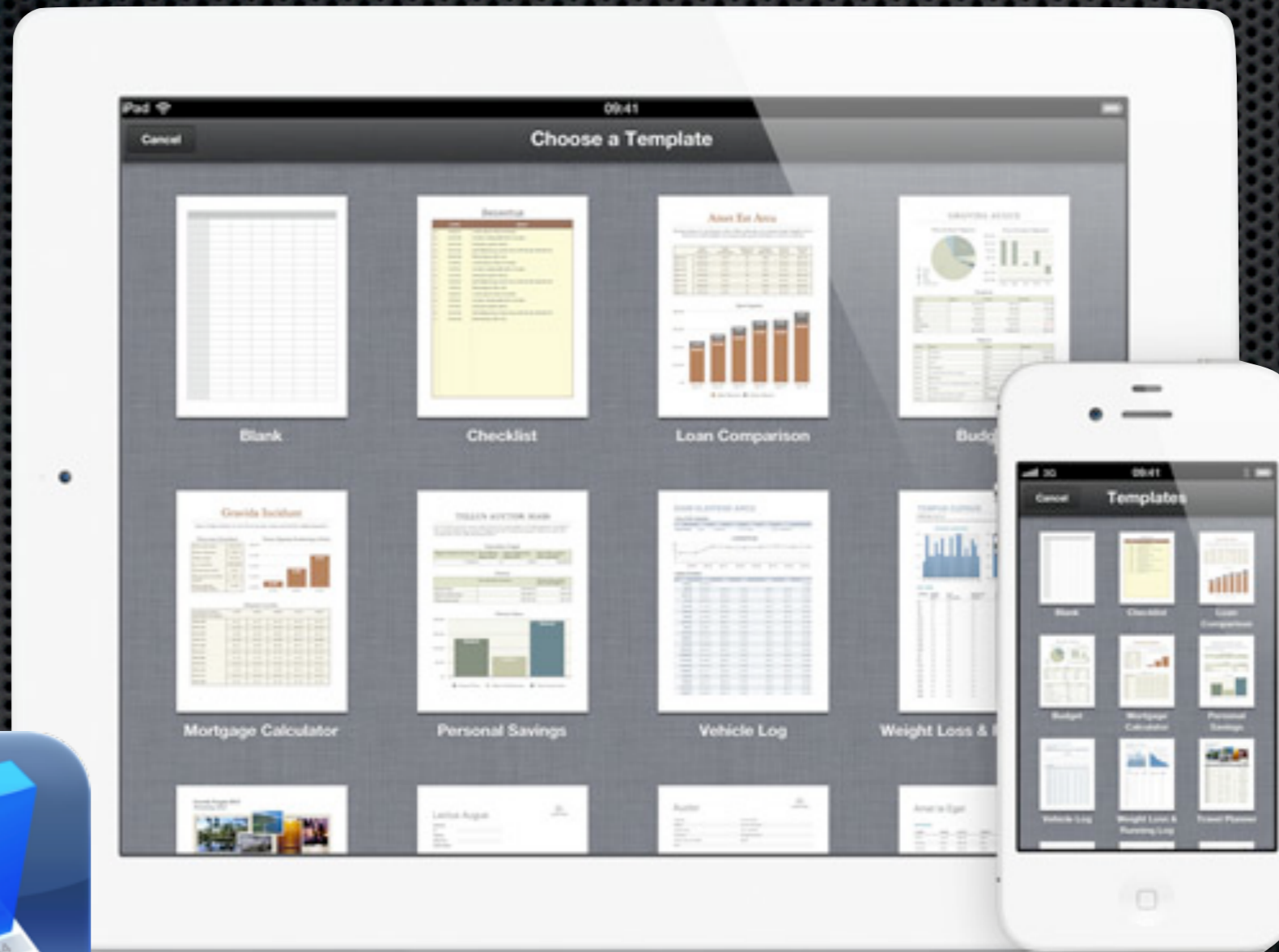
Demo



Numbers for the iPad



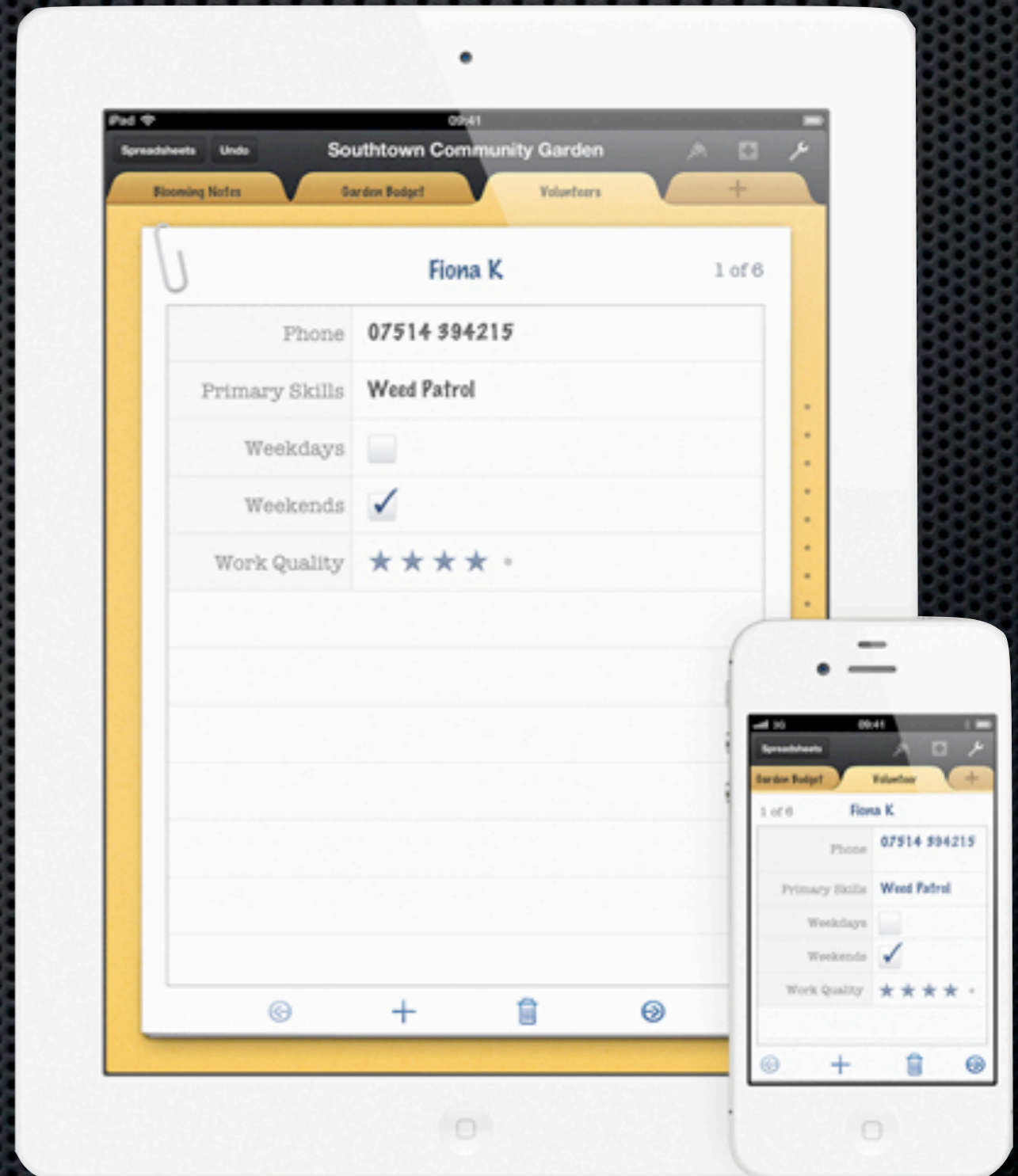
Numbers for the iPad



iCloud Support

Numbers for the iPad

Enter data on
the go!

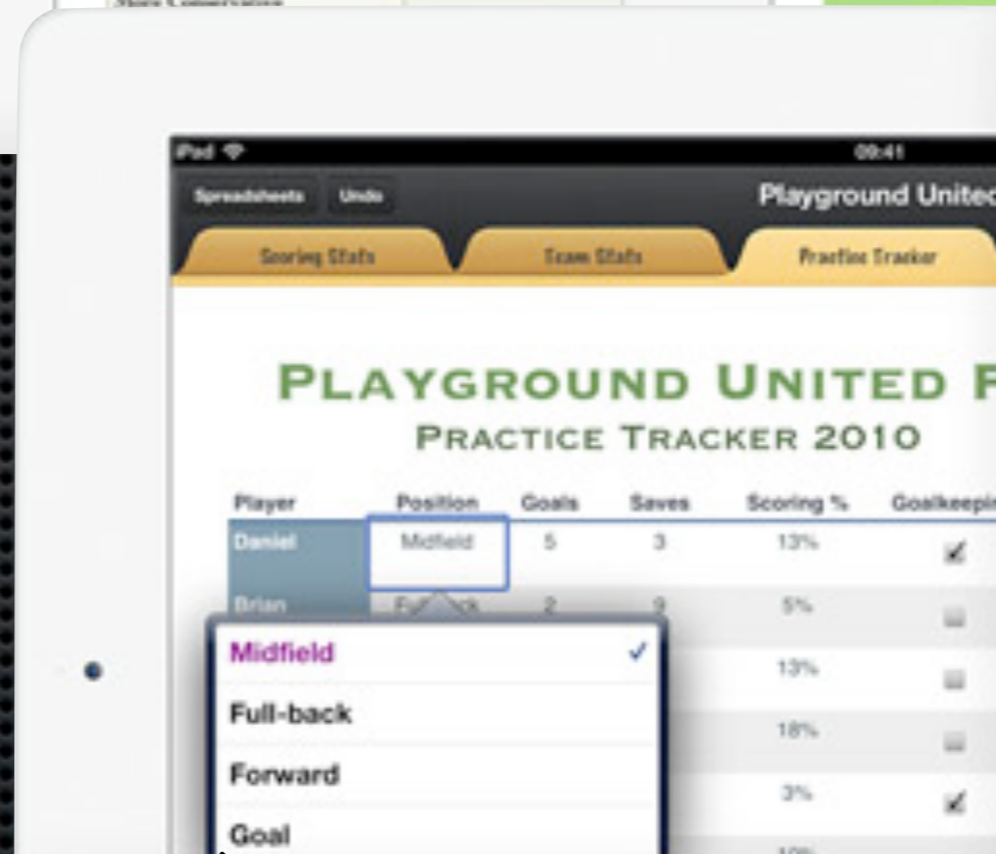
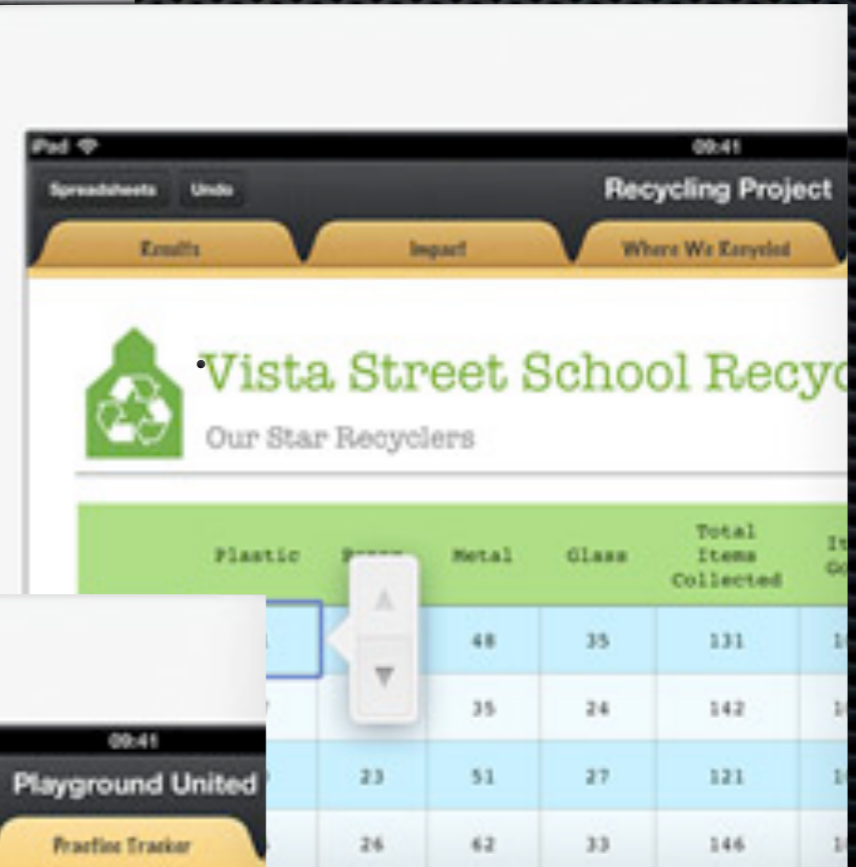


Numbers for the iPad

Sliders

Steppers

Pop-ups



Numbers for the iPad



Demo

Numbers for the iPad



Demo

Excel on the Mac

Pivot Tables

- What is a Pivot Table?
- Why or when would you use them?



Excel on the Mac

What is a Pivot Table?

It's a quick and easy way to summarise or visualise complex data in a spreadsheet

Unfortunately, not included in Numbers



Excel on the Mac

Why or when would you use them?

To go from this...

	A	B	C	D	E	F	G	H	I
1	Region	Gender	Style	Ship Date	Units	Price	Cost	Total Sales	Total Profit
2	East	Boy	Tee	01/11/2012	13	\$ 12.00	\$ 8.00	\$ 156.00	\$ 52.00
3	West	Girl	Fancy	02/11/2012	12	\$ 16.00	\$ 10.00	\$ 192.00	\$ 72.00
4	West	Boy	Golf	03/11/2012	6	\$ 20.00	\$ 13.00	\$ 120.00	\$ 42.00
5	West	Girl	Tee	04/11/2012	14	\$ 12.00	\$ 8.00	\$ 168.00	\$ 56.00
6	West	Boy	Fancy	01/11/2012	14	\$ 16.00	\$ 10.00	\$ 224.00	\$ 84.00
7	East	Girl	Golf	02/11/2012	14	\$ 20.00	\$ 13.00	\$ 280.00	\$ 98.00
8	East	Boy	Tee	03/11/2012	72	\$ 12.00	\$ 8.00	\$ 864.00	\$ 288.00
9	East	Girl	Fancy	04/11/2012	24	\$ 16.00	\$ 10.00	\$ 384.00	\$ 144.00
10	East	Boy	Golf	01/11/2012	23	\$ 20.00	\$ 13.00	\$ 460.00	\$ 161.00
11	East	Girl	Tee	02/11/2012	12	\$ 12.00	\$ 8.00	\$ 144.00	\$ 48.00
12	East	Boy	Fancy	03/11/2012	13	\$ 16.00	\$ 10.00	\$ 208.00	\$ 78.00
13	East	Boy	Fancy	04/11/2012	24	\$ 16.00	\$ 10.00	\$ 384.00	\$ 144.00
14	West	Girl	Golf	01/11/2012	35	\$ 20.00	\$ 13.00	\$ 700.00	\$ 245.00
15	West	Boy	Tee	02/11/2012	43	\$ 12.00	\$ 8.00	\$ 516.00	\$ 172.00
16	West	Boy	Fancy	03/11/2012	2	\$ 16.00	\$ 10.00	\$ 32.00	\$ 12.00
17	West	Girl	Fancy	04/11/2012	56	\$ 16.00	\$ 10.00	\$ 896.00	\$ 336.00
18	East	Boy	Golf	01/11/2012	2	\$ 20.00	\$ 13.00	\$ 40.00	\$ 14.00
19	East	Boy	Tee	02/11/2012	3	\$ 12.00	\$ 8.00	\$ 36.00	\$ 12.00
20	East	Girl	Fancy	03/11/2012	4	\$ 16.00	\$ 10.00	\$ 64.00	\$ 24.00
21	East	Boy	Fancy	04/11/2012	56	\$ 16.00	\$ 10.00	\$ 896.00	\$ 336.00
22	East	Boy	Golf	01/11/2012	6	\$ 20.00	\$ 13.00	\$ 120.00	\$ 42.00
23	East	Girl	Tee	02/11/2012	5	\$ 12.00	\$ 8.00	\$ 60.00	\$ 20.00
24	East	Boy	Fancy	03/11/2012	43	\$ 16.00	\$ 10.00	\$ 688.00	\$ 258.00
25	West	Boy	Fancy	04/11/2012	5	\$ 16.00	\$ 10.00	\$ 80.00	\$ 30.00
26	West	Girl	Golf	01/11/2012	3	\$ 20.00	\$ 13.00	\$ 60.00	\$ 21.00
27	West	Boy	Tee	02/11/2012	2	\$ 12.00	\$ 8.00	\$ 24.00	\$ 8.00
28	West	Boy	Fancy	03/11/2012	12	\$ 16.00	\$ 10.00	\$ 192.00	\$ 72.00
29	East	Girl	Fancy	04/11/2012	34	\$ 16.00	\$ 10.00	\$ 544.00	\$ 204.00
30	East	Boy	Golf	01/11/2012	12	\$ 20.00	\$ 13.00	\$ 240.00	\$ 84.00
31	East	Boy	Tee	02/11/2012	23	\$ 12.00	\$ 8.00	\$ 276.00	\$ 92.00
32	East	Girl	Fancy	03/11/2012	24	\$ 16.00	\$ 10.00	\$ 384.00	\$ 144.00
33	East	Boy	Fancy	04/11/2012	56	\$ 16.00	\$ 10.00	\$ 896.00	\$ 336.00
34	East	Boy	Golf	01/11/2012	57	\$ 20.00	\$ 13.00	\$ 1,140.00	\$ 399.00
35	East	Girl	Tee	02/11/2012	34	\$ 12.00	\$ 8.00	\$ 408.00	\$ 136.00
36	West	Boy	Fancy	03/11/2012	23	\$ 16.00	\$ 10.00	\$ 368.00	\$ 138.00
37	West	Boy	Fancy	04/11/2012	23	\$ 16.00	\$ 10.00	\$ 368.00	\$ 138.00
38	West	Girl	Golf	01/11/2012	2	\$ 20.00	\$ 13.00	\$ 40.00	\$ 14.00
39	West	Boy	Tee	02/11/2012	3	\$ 12.00	\$ 8.00	\$ 36.00	\$ 12.00
40	East	Boy	Fancy	03/11/2012	12	\$ 16.00	\$ 10.00	\$ 192.00	\$ 72.00
41	East	Girl	Fancy	04/11/2012	45	\$ 16.00	\$ 10.00	\$ 720.00	\$ 270.00
42	East	Boy	Golf	01/11/2012	34	\$ 20.00	\$ 13.00	\$ 680.00	\$ 238.00
43	East	Boy	Tee	02/11/2012	23	\$ 12.00	\$ 8.00	\$ 276.00	\$ 92.00
44	East	Girl	Fancy	03/11/2012	23	\$ 16.00	\$ 10.00	\$ 368.00	\$ 138.00
45	East	Boy	Fancy	04/11/2012	44	\$ 16.00	\$ 10.00	\$ 704.00	\$ 264.00
46	East	Boy	Golf	01/11/2012	54	\$ 20.00	\$ 13.00	\$ 1,080.00	\$ 378.00
47	West	Girl	Tee	02/11/2012	23	\$ 12.00	\$ 8.00	\$ 276.00	\$ 92.00
48	West	Boy	Fancy	03/11/2012	23	\$ 16.00	\$ 10.00	\$ 368.00	\$ 138.00
49	West	Boy	Fancy	04/11/2012	11	\$ 16.00	\$ 10.00	\$ 176.00	\$ 66.00
50	West	Girl	Golf	01/11/2012	14	\$ 20.00	\$ 13.00	\$ 280.00	\$ 98.00
51									



Excel on the Mac

To this...

	A	B	C	D	E	F
1	Region	(All) ▾				
2						
3	Sum of Total Profit	Column Labels ▾				
4	Row Labels ▾	01/11/2012	02/11/2012	03/11/2012	04/11/2012	Grand Total
5	Fancy	\$ 84.00	\$ 72.00	\$ 1,074.00	\$ 2,268.00	\$ 3,498.00
6	Golf	\$ 1,694.00	\$ 98.00	\$ 42.00		\$ 1,834.00
7	Tee	\$ 52.00	\$ 684.00	\$ 288.00	\$ 56.00	\$ 1,080.00
8	Grand Total	\$ 1,830.00	\$ 854.00	\$ 1,404.00	\$ 2,324.00	\$ 6,412.00
9						

Or...

	A	B	C	D	E
1					
2					
3	Sum of Units	Column L ▾			
4	Row Labels ▾	Fancy	Golf	Tee	Grand Total
5	East	402	202	185	789
6	West	181	60	85	326
7	Grand Total	583	262	270	1115
8					



All in a few mouse clicks!

Demo

Excel on the Mac

To this...

	A	B	C	D	E	F
1	Region	(All)				
2						
3	Sum of Total Profit	Column Labels				
4	Row Labels	01/11/2012	02/11/2012	03/11/2012	04/11/2012	Grand Total
5	Fancy	\$ 84.00	\$ 72.00	\$ 1,074.00	\$ 2,268.00	\$ 3,498.00
6	Golf	\$ 1,694.00	\$ 98.00	\$ 42.00		\$ 1,834.00
7	Tee	\$ 52.00	\$ 684.00	\$ 288.00	\$ 56.00	\$ 1,080.00
8	Grand Total	\$ 1,830.00	\$ 854.00	\$ 1,404.00	\$ 2,324.00	\$ 6,412.00
9						

Or...

	A	B	C	D	E
1					
2					
3	Sum of Units	Column Labels			
4	Row Labels	Fancy	Golf	Tee	Grand Total
5	East	402	202	185	789
6	West	181	60	85	326
7	Grand Total	583	262	270	1115
8					



All in a few mouse clicks!

Demo

Any Questions?

Contact Details

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