

Index

A

A4 size paper, 317
 absolute references, 142
 accounting number format style, 172
 add-ins
 content, explained, 152
 downloading from the office store, 154
 task pane, explained, 152
 uses of, 152
 alignment
 horizontal, of cell contents, 176
 vertical, of cell contents, 182
 android. *See* operating system
 apple
 mac version of Excel, 350
 missing Excel features in mac version, 350
 apple OS X. *See* operating system
 arrange all, 68
 audio cues, enabling, 26
 AutoComplete
 formula entry using, 91
 text entry using, 122
 AutoFill
 custom fill series, creating, 98
 date series, examples of, 96
 filling down, right, up and left with, 123
 formulas, using to adjust, 94
 smart tag options, using, 96
 text and numeric series, creating with, 92
 AutoFit rows and columns, 83, 131
 AutoSave, 40, *See also* versions; Excel Online
 draft versions, explanation of, 40
 time interval, changing, 40
 AutoSum, 70
 AVERAGE functions, creating with, 86
 MAX functions, creating with, 86
 SUM a non contiguous range with, 84
 AVERAGE function, 86

B

backstage view, 48
 backup. *See also* OneDrive; AutoSave
 automatic backups, reverting to, 40
 RAID array, use of to improve resilience, 40

time interval for automatic backups, changing, 40
 borders
 adding to cells, 190
 draw border line tool, using to add, 191

C

cancel button, 66
 cells. *See also* styles; comments; formatting
 active cell, 80
 aligning contents of, horizontally, 176
 aligning contents of, vertically, 182
 borders, adding to, 190
 color, adding to, 188
 conditional formatting of, 198
 copying one to another, 124
 copying using drag and drop, 126
 deleting, 86
 deselecting, 78
 entering text into, 66
 entering values into, 66
 gradient fills, adding to, 188
 merging, 178, 180
 selecting a range of, 73
 selecting all in a worksheet, 83
 styles, applying to, 186
 unique values, detecting with conditional
 formatting, 201
 wrapping text within, 178, 180
 channels. *See* update channels
 chart source data
 adding series, 249
 assigning non contiguous, 244
 changing, 242
 changing using *select data source* dialog tools,
 242
 deleting series, 249
 hidden and empty cells button, 251
 horizontal (category) axis labels, defining, 249
 horizontal (category) axis labels, editing, 253
 legend entries (series), 249
 non-contiguous source data, charting by hiding
 rows and columns, 250
 numerical axis labels, configuring, 252
 series, deleting, 249
 charts. *See also* chart source data; visualizations;
 sparklines

#N/A values, treating as an empty cell, 254
3D chart type, overview, 278
3-D elements, formatting in, 236
activating, 225
axis title element, 231, 236
axis, formatting, 263
axis, maximum and minimum values, setting, 263
borders, formatting in, 234
category data explained, 246
combination, creating, 268
copying, 226
creating quick charts with visualizations, 202
creating quickly with two clicks, 224
data labels, adding to, 256
data labels, formatting, 257, 263, 270
data labels, referencing a range from, 258
data series explained, 236
data series, formatting in, 278, 280
data table, adding to, 231, 236
deleting, 226
deleting elements from, 238
elements, explained, 222
elements, formatting in, 234
elements, moving in, 238
elements, re-sizing in, 238
embedding in worksheet, 227
empty data points, dealing with, 254
fill color, changing of in elements, 260
filled map, avoiding ambiguity in, 280
filled map, chart type, 278, 280
filters button, 241
filters, applying, 240
fonts, changing sizes in, 238
forecast, adding, 272
format shape task pane, working with, 234
gradiated fill, adding, 274
gridlines explained, 236
gridlines, major & minor, adding, 262
gridlines, major & minor, enabling and disabling, 263
hidden and empty cells button, 254
horizontal (category) axis defined, 231, 236
layout, changing, 230, 231, 236
layouts, explained, 222
legend, displaying in different places, 238
line with markers chart type, creating, 266
moving average, adding, 270
naming, 226
numerical axis labels, configuring, 252
pie charts, 264
pie charts, pulling a slice out of the pie, 265
pie charts, rotating, 265
plot area, 236
quick analysis button, creating with, 225, 229
recommended charts feature, 228
re-sizing, 226
rows/columns, switching, 246
secondary axis, adding, 267
selection pane, using to activate, 226
series data explained, 246
shadows, applying to elements, 236
shapes, inserting into, 261
sheet, moving to, 227
styles, explained, 222
templates, creating from, 276
text box, adding to, 260
tips, 231
title element, 231, 234, 236
title element, linking to worksheet cell, 234
title element, re-positioning to dead center, 238
transparency, 235
trend line, adding, 270
type, changing, 268
types, explained, 222
values and labels, importance of selecting, 224
vertical (value) axis defined, 231, 236
vertical axis, creating chart with two, 266
x axis defined, 231, 236
y axis defined, 231, 236
check box, 46
clipboard
 copying and pasting multiple items with, 132
 described, 124
close button, 28
cloud applications
 advantages of (sidebar), 351
cloud computing. *See also* OneDrive; Excel Online
 advantages of, 342
 citrix, use of in thin client solutions, 342
 latency, 342
 overview, 342
 remote desktop services, use of in thin client solutions, 342
 thin client, explained, 342
collapse dialog button, 243
color sets, component of a theme, 185
columns
 deleting, 120
 freezing, 156
 hiding, 250
 inserting, 120

making several the same size, 83
 resizing automatically, 82
 selecting, 76
 selecting non contiguous, 76
 unhiding, 250
 width of, manually changing, 83

comma style, 172

comma[0] style, 172

comments

- changing the user name shown in, 136
- displaying, one or more all of the time, 139
- hiding, 139
- inserting, 136
- moving, 138
- printing, 140
- printing all at the end, 140
- printing exactly as displayed on a worksheet, 141
- re sizing, 137
- showing all, 138

conditional formatting. *See also* visualizations

- explained, 198
- formula driven, 204
- highlighting a complete row of data with, 205
- quick analysis button, applying with, 198
- rules manager, managing multiple with, 200
- unique values, detecting with, 201

confirm button, 66

copying

- one cell to another cell, 124
- using drag and drop, 126

crash, recovering from, 40

currency

- prefixes, 67
- styles for, 173

cursor shapes, explained, 73

custom formatting codes, 169, **174**

cut, 124

D

dates and times

- custom format, 169
- difference in days between two dates, calculating, 171
- formatting, 168
- internationally safe formats, benefits of, 168
- serial number, explained, 170
- time value, containment within dates, 170

decimal places, changing number of, 128

delete, recovering work accidentally deleted, 40

dialog launcher, 47

documents. *See also* files

- organization of, 36
- pinning, 36
- downloading the sample files, 15, **30**
- draft versions, explanation of, 40
- drop-down list, 47

E

editing cell contents, 66

effects, component of a theme, 185

Excel Online, 352, *See also* OneDrive

- browsers, supported, 355
- edit workbook simultaneously with other users using, 360
- open workbook using, 354
- overview of, 352
- ribbon, hiding and showing in, 355
- save local copy of read-only workbook, 357
- save, automatic, explained, 354
- touchscreen, using with, 354

excel version. *See* office version

Excel workbook file format, 32, 34

exponential. *See* series

F

files. *See also* workbooks; documents

- default workbook file location, setting, 37
- formats supported, 32, 34
- organization of, 36
- recent workbooks list, increasing the number of entries in, 36

find and replace

- formats, 302
- look in* option, 302
- options, 302
- using, 302
- wildcard, searches using, 303

flash fill

- autofill handle, using to apply, 104
- automatic, use of, 102
- examples, 108
- extracting initials with, 102
- formula based solution, compared to, 105
- header rows, importance of formatting for, 102
- manual, use of, 104
- multiple examples, use of, 106
- numbers, working with, 106
- splitting delimited text with, 102
- switching on, 102
- telephone numbers, formatting with, 104

use of separators with, 102
using to solve common problems, 108
font sets, component of a theme, 184
fonts
 font sets, use in themes, 184
 serif and sans serif explained, 185
forecast sheet, 272
 confidence setting, explained, 272
 cyclical data, using to forecast from, 272
formatting. *See also* themes
 3-D Elements, 236
 aligning cell contents horizontally, 176
 aligning cell contents vertically, 182
 borders around cells, 190
 cell styles, 186
 chart borders, 234
 chart elements, 234
 color, 188
 conditional, 198
 custom codes, 174
 dates, 168
 find and replace, replacing formats with, 302
 format painter, copying with, 212
 gradient effects, 188
 numbers using built-in styles, 172
 rotating text, 214
 shadows, 236
 themes, changing, 186
 themes, understanding, 184
 transparency, 235
 visualizations, comparing values with, 202
formula bar
 expanding and collapsing, 178, 180
 explanation of, 72
 graphic showing location of, 32
formulas
 absolute and relative references in, 142
 Autocomplete, creating with, 90
 AutoFill, adjusting with, 94
 AVERAGE function, creating using AutoSum, 86
 conditional format, driving with, 204
 cross-worksheet, creating, 298
 F2 key to display range addressed by, 87
 formula bar, viewing in, 72
 MAX function, creating using AutoSum, 86
 mouse selection, creating with, 88
 multiplication operator (*) using in, 89
 SUM function, creating using AutoSum, 70
 syntax box, understanding, 91
 visual keyboard technique, creating with, 89

fractions, entering into cells, 67
freeze columns and rows, 156
full screen view, 54
functions
 AVERAGE, 86
 FORECAST, family of functions (sidebar), 272
 help topics, accessing from formula
 AutoComplete, 91
 MAX, 86
 ROUND, 173
 SUM, 70, 84

G

gallery, 46
goto special, 81
growth. *See* series

H

hashes
 indication that columns are too narrow by, 168
help system. *See also* tell me help
 F1 key, accessing older help system with, 58
 formula AutoComplete, accessing help topics
 from, 91
 ribbon, accessing help topics directly from, 58
hide rows and columns, 250
hide values, using three semicolon custom format, 175
hiding and unhiding worksheets, 296

I

Intelliprint, 320
internet. *See* OneDrive; Excel Online
iPad
 pro, 348
 success story of (sidebar), 348
iPad, described, 349

J

justify, horizontal alignment option, 177

K

key tips, 50
keyboard shortcuts
 AutoSelect a range, 81
 AutoSum, 70
 bold, 51
 close, 29
 copy, 124

create a mixed cell reference, 145
 cut, 125
 cycle through worksheets, 39
 fill down, 123
 find, 302
 flash fill, 104
 insert a comment into a cell, 136
 insert column, 120
 insert row, 120
 italic, 51
 make a relative reference absolute, 143
 move to cell A1, 156
 paste, 124
 redo, 134
 replace, 302
 ribbon, show/hide, 44
 save, 32
 select every cell in a worksheet, 82
 spell check, 160
 underline, 51
 undo, 134
 workbook, create new, 68

L

landscape orientation, 310
 letter size paper, 317
 license. *See also* update channels
 Excel 365, 24
 perpetual and subscription, differences, 24
 subscription, 24
 lines, adding beneath cells, 190

M

marching ants, 70
 marquee, 70
 MAX function, creating using AutoSum, 86
 maximize button, 28
 menus
 rich, 47
 shortcut (contextual), 51
 standard, 46
 merge and center button, 178, 180
 merge, cells, 178, 180
 microprocessor
 AMD and Intel, 348
 ARM instruction set, 348
 desktop, laptop and smartphone, differences
 between, 348
 explained, 348
 intel atom x5 and x7, 349

used in tablet and smartphone devices, 348
 x64 instruction set, 348
 microsoft surface (tablet computer), 349
 mini toolbar
 shortcut (contextual) menu, 51
 using when entering text, 50
 minimize button, 28
 mixed cell references, 144
 moving
 the Excel window, 28
 multiplication operator (*), 89

N

name box, 30
 negative numbers, entering into cells, 67
 normal view, 52
 number sign (#), 82
 numbers
 changing number of decimal points displayed, 128
 using built-in styles with, 172

O

office theme, changing, 26
 office version. *See also* Excel Online
 availability of different versions, 351
 checking Excel version, 25
 office for mac, 350
 office for windows, 350
 office mobile, 350
 office online, 351
 version number and build number explained, 24
 OneDrive. *See also*, OneDrive for business;
 microsoft account; Excel Online
 advantages of using, 347
 alternatives to, 347
 AutoSave, using with, 358
 link types, public and private, explained, 356
 link, sharing using share button, 356
 links, setting expiry date or password for, 356
 links, view-only and edit, explained, 356
 lunchtime lock, problems caused by, 346
 OneDrive for Business, 346
 open a workbook from, 346
 ransomware, protecting against with, 358
 restore feature, using, 358
 save a workbook to, 344
 save local copy of read-only workbook, 357
 security concerns, 345

SharePoint, using in place of, 345
social networks, sharing links via, 356
subscriptions, 344
version history, viewing, 358
OneDrive for Business
differences to Personal when sharing files with, 344
enhanced security features of. *See also* OneDrive
operating system
android, 349
apple OS X, 349
explained, 349
iOS, 349
Windows 10 mobile, 349
organizing
excel files, 36
sample files folder, 30

P

page break preview, 52
page layout view, 52, 312
paper sizes explained, 317
paste, 124
paste special, 129
paste values, 129
PDF, workbook format, 35
percentage style, 173
portrait orientation, 310
pound sign (#), 82
precision, changing to avoid rounding errors, 173
printing
area, setting, 328
autoheaders and autofooters, adding, 322
cell comments, adding, 140
column headings, showing on every page, 330
comments, exactly as displayed on a worksheet, 141
comments, printing all at the end, 140
error messages, suppressing in printouts, 334
graphical header, adding, 325
headers & footers, adding custom, 324
headers & footers, including an ampersand (&) in, 324
headers & footers, specifying different first, odd and even, 326
margin settings, changing the default, 313
margins, adjusting using rulers, 313
margins, custom, adjusting with page setup, 314

over then down, page order, changing with, 332
page break preview, 52
page breaks, adjusting using *page break preview*, 320
page breaks, inserting and deleting, 318
page number, setting the starting value, 322
page order, changing, 332
paper orientation, changing, 310
paper size, setting, 316
paper sizes explained, 317
part of a worksheet, 328
previewing on screen, 48, 310
row headings, showing on every printed page, 330
rulers, showing and hiding, 313
scaling to fit paper, 316
several worksheets at the same time, 332
processor. *See* microprocessor
protected view, potential problems when downloading sample files, 30

Q

quick access toolbar
adding commands to, 48
adding separators to, 48
deleting commands from, 48
quick analysis
charts, creating with, 225
conditional formatting, creating with, 198
sparklines, creating with, 207
totals, creating with, 71
quotations
Aristotle, 46
Baltasar Gracián, 100
Benjamin Disraeli, 309
Christopher Bullock, 272
Confucius, 5
Euripides, 21
Frederick R. Barnard, 221
Henry Ford, 287
Margaret Thatcher, 119
Oscar Wilde, 167
Robert Collier, 28
Winston Churchill, 4

R

RAID array, 40
ranges
AutoSelect, selecting automatically with, 80

copying data across, 74
 entering data into, 74
 non contiguous, selecting, 78
 select all button, to select a range containing every cell in a worksheet, 83
 selecting, 72
 selecting visually for formulas with the mouse, 88
 transposing, 130
 visualizations, comparing values with, 202

Ransomware
 protecting against with OneDrive, 358

recommended charts, using, 228

redo, 134

relative references, 142

replace cell contents using *find and replace*, 302

reset to match style, 237

restore down button, 28

ribbon
 benefits of wide screen with, 44
 command groups on, 46
 contextual tabs, explanation of, 44
 controls on, 46
 customizing, 44
 default, resetting to, 44
 font panel controls, explanation of, 44
 overview, 44
 showing and hiding (minimizing), 44

rotate text, 214

rounding errors, avoiding, 173

rows
 conditional format, highlighting entire row with, 205
 copying contents of one to another, 126
 deleting, 120
 freezing, 156
 hiding, 250
 inserting, 120
 making several the same size, 83
 manually setting height of, 83
 resizing automatically, 82
 selecting, 76
 selecting non contiguous, 76
 unhiding, 250

rulers, showing and hiding in page layout view, 313

rules manager
 controlling conditional formatting with, 200
 editing rules with, 202

S

sample files
 downloading, 15, 30
 organizing folder, 30
 potential protected view problem when downloading, 30

sans serif and serif fonts explained, 185

save, 32, 34
 AutoSave, using to recover work after crash, 40

select all button, 292

selecting cells, 72

series
 dialog, 100
 exponential, 100
 growth, 100
 linear, 100
 start value, 100
 step value, 100
 stop value, 100

serif and sans serif fonts explained, 185

share button, 356

shortcut keys. *See* keyboard shortcuts

smart tag
 explained, 72
 options, 96
 using to paste values, 129

SmartPhone
 explained, 348

sounds
 enabling audio cues, 26

sparklines, 206
 column type, inserting, 207
 date axis, specifying for, 210
 deleting, 208
 empty cells, setting options for, 254
 formatting
 line thickness (weight), changing, 209
 marker (data point) color, 209
 markers (data points), 209
 single sparkline rather than group, 211

group and ungroup, 211

hidden cells, show/hide on sparkline, 254

inserting group of into a range of cells, 206

line type, inserting, 207

quick analysis button, creating with, 207

size of containing cell, changing, 209

style, changing with style gallery, 209

type, changing, 209

ungroup and group, 211

uses of, 206

vertical axis, applying common scaling to sparkline group, 208
win/loss type, inserting, 207
spell checking
 dictionary language, setting, 161
 using, 160
split button, 46
split, window into multiple panes, 158
start Excel, 22
styles
 accounting number format, 172
 applying cell styles, 186
 built-in, for numbers, 172
 comma, 172
 comma[0], 172
 currency[0], 172
 importance of using theme colors and fonts, 188, 197
 master style book, using, 196
 merging, 196
 percentage, 173
 removing from cells, 186
SUM function
 creating manually using formula
 AutoComplete, 90
 creating using AutoSum, 70
surface. *See* microsoft surface (tablet computer)
switch windows, 68
synchronous scrolling, 290

T

tablet computer
 explained, 348
tabs. *See* worksheets
telephone numbers, formatting with flash fill, 104
tell me help
 Alt+Q keyboard shortcut, using to access tell me help box, 56
 execute command, using to, 56
 using, 56
templates
 cloud, storing in, 146
 creating, 148
 custom, about, 147
 folder, organizing, 147
 folder, setting location of, 147
 potential problems when using samples, 146
 using, 150
the smart method
 learning by participation, 5
 two facing pages rule, 4

themes. *See also* office theme
 changing, 186
 changing the default, 185
 color sets, 185
 custom, creating, 192
 effects, 185
 explained, 184
 font sets, 184
 importance of using theme colors and fonts, 188
times. *See* dates and times
title bar, 68
Touchscreen
 gestures to emulate mouse actions, 354
touchscreen, gestures, 354
transparency, 235
transpose, 130
trend. *See also* series
 linear and exponential, 100
trend line. *See* charts

U

undo, 134
unhide rows and columns, 250
unique values, detecting with conditional formatting, 201
update channels
 automatic updates, enabling, 24
 explained, 24
updates. *See* update channels

V

values. *See also* Styles
 built-in styles, applying to, 172
 currency prefixes, using with, 67
 entering into cells, 66
 fractions, entering into cells, 67
 negative numbers, entering into cells, 67
 precision, changing to avoid rounding errors, 173
 rounding errors, avoiding, 173
version. *See* office version
versions. *See also* AutoSave
 earlier versions, viewing, 42
 explanation of, 40
 recovering an earlier version of a workbook, 42
vertically align cell contents, 182
visualizations, 202
 color scale, 202
 comparing values with, 202

data bar, 202
 icon set, 202
 rules manager, editing with, 202
 use of *show bar only* to create quick charts, 202

W

web browser. *See* OneDrive; Excel Online
 wildcards, searches using, 303
 windows
 arrange all, using to automatically size, 68
 closing, 28
 moving, 28
 resetting position of, 290
 resizing, 28
 restoring down, 28
 splitting into multiple panes, 158
 switching to view a different workbook, 68
 synchronous scrolling of, 290
 viewing two workbooks side by side in, 290
 views, creating two of the same workbook, 288
 workbooks. *See also* files
 changing default number of worksheets in, 38
 comparing side by side, 290
 creating new, 68
 duplicating worksheets in, 292
 open from OneDrive, 346
 opening, 30
 recent workbooks list, increasing the number of entries in, 36
 save to OneDrive, 344
 saving, 32, 34
 switching between open workbooks, 68

synchronous scrolling, comparing with, 290
 viewing the same workbook in two windows, 288
 viewing two at the same time, 68
 views, 52
 worksheets
 3-D creating, 300
 adding, 38
 changing default number of, 38
 chart worksheets, explanation of, 38
 copying from one workbook to another, 294
 deleting, 38
 duplicating, 292
 gridlines, switching off in, 190
 groups, 300
 hiding and unhiding, 296
 maximum number of rows and columns in, 30
 navigating, 30, 38
 non-contiguous, selecting, 300
 renaming, 38
 tab colors, changing, 39
 wrapping
 splitting wrapped text into different lines, 183
 text in cells, 178, 180

X

XPS, workbook format, 35

Z

zoom control, 110