Excel Data

types, checking, and conversions

Four Main Data Types in Excel

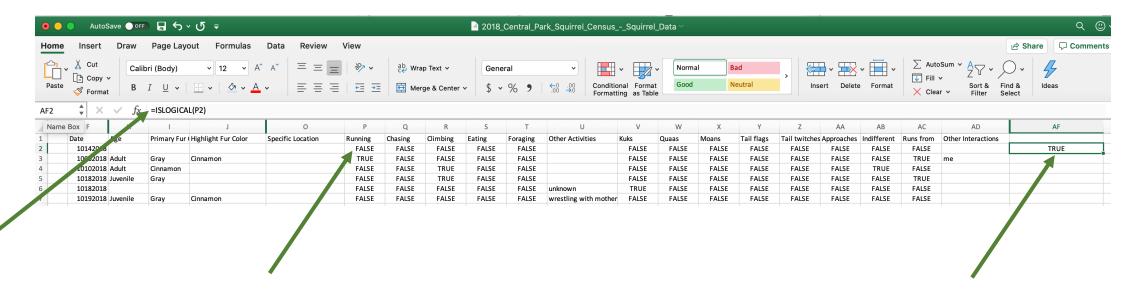
- Number
- Text
- Date
- Logical

Number – 100, 2.5, 892.407 Text – red, Joshua, Florida Dates – 2008-02-08, 1986-09-10, 2020-02-11 Logical – TRUE, TRUE, FALSE

You can check the type of data in a cell using

ISNUMBER()
ISTEXT()
ISDATE() – not available in Excel
ISLOGICAL()

You can check whether the value in P2 is just text that says FALSE or an actual logical data type.



Converting data types

```
Text → Number
N()
Logical → Number
N()
Number → Percentage
TO_PERCENT()
```

Rounding data

In addition to ROUND()

FLOOR(<value to round down>, <significant multiple)

Alignment

Format Cells

Border

Fill

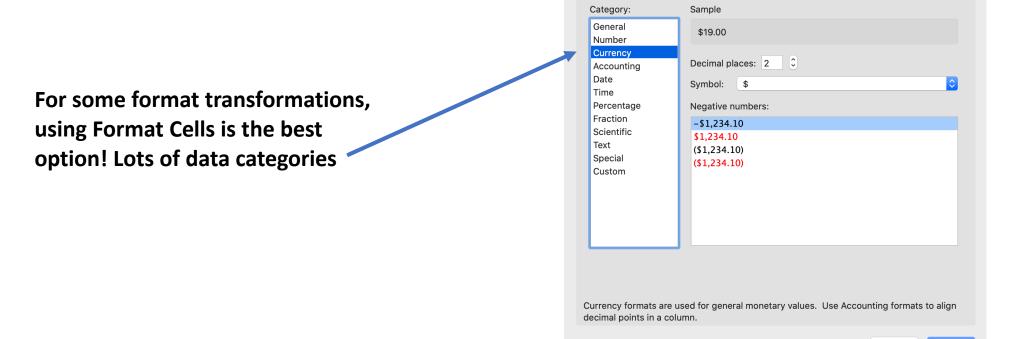
Protection

Font

 $FLOOR(2.24, 0.25) \rightarrow 2.00$

CEILING(<value to round up>, significant multiple)

CEILING(24697, 100) \rightarrow 24700



CONVERT() Function

Syntax: CONVERT(value, from_measurement, to_measurement)

CONVERT(22, "C", "F") will convert 22 from degrees Celsius to degrees Farenheit CONVERT(100, "yd", "m") will convert 100 from yards to meters

The list of from/to measurements is extensive and can be found at https://exceljet.net/excel-tunction/excel-convert-function

Exercises

- 1. Insert a column to the right of the age column in the Star Wars dataset. Call it age_is_number? Write a formula to check whether the value in the age column is a number.
- 2. Insert a column to the right of the height column in the Star Wars dataset. Call this height_inches. Write a formula in the new column to convert height from centimeters to inches. Round it to the nearest whole number.
- 3. Insert a column to the right of the mass column. Call the new column weight. Write a formula to convert the mass column from kilograms to pounds. Round this to the nearest whole number. What is Jabba the Hutt's weight in pounds?