Number to Text Converter Documentation

Overview

This VBA code provides a function called ConvNumberLetter that converts numerical values into their written text form, with support for different currencies (Euro, Dollar, Moroccan Dirham), languages, and formatting options.

Function Limitations

- Maximum value without decimals: 999,999,999,999,999
- Maximum value with decimals: 9,999,999,999,999.99
- Numbers with more than 2 decimal places are rounded to 2 decimals

Main Function: ConvNumberLetter

Syntax

```
ConvNumberLetter(Nombre As Double, [Devise As Long], [Langue As Long], [Casse As Long], [ZeroCent As Long])
```

Parameters

1. Nombre (Required): The number to convert

2. Devise (Optional): Currency option
   - 0 = No currency
   - 1 = Euro (€)
   - 2 = Dollar ($)
   - 3 = Moroccan Dirham (DH)

3. Langue (Optional): Language option
   - 0 = French
   - 1 = English

4. Casse (Optional): Text case option
   - 0 = Lowercase
   - 1 = First letter capitalized
   - 2 = All uppercase
   - 3 = Each word capitalized

5. ZeroCent (Optional): Cents display option

- 0 = Don't show cents if zero
- 1 = Always show cents

How to Use in Excel

Installation

1. Open Excel and press ALT + F11 to open the VBA editor
2. Insert a new module (Insert > Module)
3. Copy and paste the entire code into the module
4. Save the workbook as a macro-enabled file (.xlsm)

Usage Examples

You can use the function in Excel cells or VBA code:

1. **Basic Usage (No Currency)**

```
=ConvNumberLetter(123.45)
```

' Result: "cent vingt-trois virgule quarante-cinq"

2. **With Euro Currency**

```
=ConvNumberLetter(123.45, 1)
```

' Result: "cent vingt-trois Euros quarante-cinq Cents"

3. **With Dollar and Uppercase**

```
=ConvNumberLetter(123.45, 2, 0, 2)
```

' Result: "CENT VINGT-TROIS DOLLARS QUARANTE-CINQ CENTS"

4. **With Dirham and First Letter Capitalized**

```
=ConvNumberLetter(123.45, 3, 0, 1)
```

' Result: "Cent vingt-trois Dirhams quarante-cinq Centimes"

Excel Formula Examples

Create these examples in your worksheet:

Cell	Formula	Result
A1	=ConvNumberLetter(1234.56)	mille deux cent trente-quatre virgule cinquante-six
A2	=ConvNumberLetter(1234.56, 1)	mille deux cent trente-quatre Euros cinquante-six Cents
A3	=ConvNumberLetter(1234.56, 3, 0, 1)	Mille deux cent trente-quatre Dirhams cinquante-six Centimes

Error Handling

- If the number exceeds the maximum limit, the function returns "#TropGrand"

- The function handles negative numbers by converting them to positive and adding appropriate text

Support Functions

The code includes several private helper functions:

- ConvNumEnt: Handles whole number conversion

- ConvNumDizaine: Converts tens (dizaines)

- ConvNumCent: Converts hundreds (centaines)

- Nz: Handles zero values

Notes

- The code primarily outputs in French

- English support is limited

- The function handles numbers up to billions (milliards in French)

- Special handling exists for currency-specific cases (e.g., "d'Euro" for large amounts)