

# Tidy Data

January 31, 2018

## 1 Tidy Data

```
In [1]: import pandas as pd
```

```
pacientes = ['Ricardo', 'Marielena', 'Miguel']
```

```
a = [ 67, 80, 64 ]
```

```
b = [ 56, 90, 50 ]
```

```
untidy = pd.DataFrame({'pacientes': pacientes, 'a': a, 'b': b })
```

Documentación relacionada: `pandas.melt`

<http://pandas.pydata.org/pandas-docs/stable/generated/pandas.melt.html>

```
In [2]: def gather(df, key, value, cols):
        id_vars = [col for col in df.columns if col not in cols ]
        id_values = cols
        var_name = key
        value_name = value
        return pd.melt(df, id_vars, id_values, var_name, value_name)
```

```
In [3]: untidy
```

```
Out[3]:
```

	a	b	pacientes
0	67	56	Ricardo
1	80	90	Marielena
2	64	50	Miguel

```
In [4]: tidy = gather(untidy, 'medicamento', 'frecuencia_cardiaca', ['a', 'b'])
```

```
In [5]: tidy
```

```
Out[5]:
```

	pacientes	medicamento	frecuencia_cardiaca
0	Ricardo	a	67
1	Marielena	a	80
2	Miguel	a	64
3	Ricardo	b	56
4	Marielena	b	90
5	Miguel	b	50

## 1.1 Para saber más:

- <https://garrettgman.github.io/tidying/> (R-lang)
- <http://www.prometheusresearch.com/good-data-management-practices-for-data-analysis-tidy-data-part-2/> (R-lang)
- <https://tomaugspurger.github.io/modern-5-tidy.html> (Python+Pandas)
- [https://www.ibm.com/developerworks/community/blogs/jfp/entry/Tidy\\_Data\\_In\\_Python?lang=en](https://www.ibm.com/developerworks/community/blogs/jfp/entry/Tidy_Data_In_Python?lang=en) (Python+Pandas)
- <http://connor-johnson.com/2014/08/28/tidyr-and-pandas-gather-and-melt/> (Python+Pandas)
- <https://blog.rstudio.org/2014/07/22/introducing-tidyr/> (R-lang)