

# What's new in pandas?

Python Meetup January 2015

<https://github.com/jreback/pythonmeetup-jan2015>

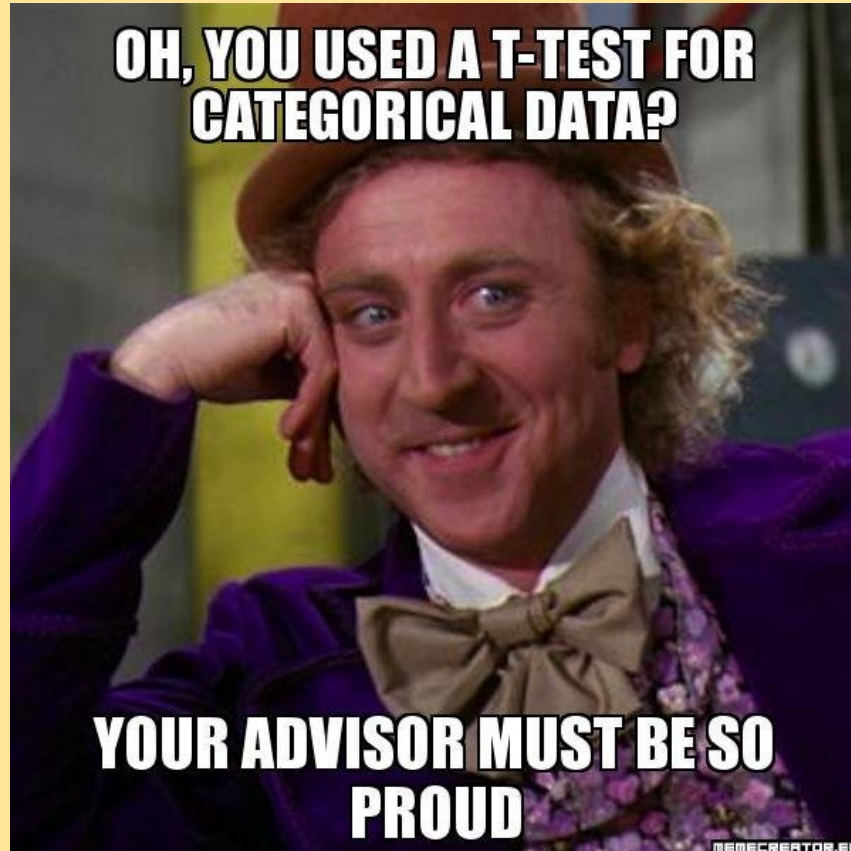
# So, what's new in pandas?

- Categorical Data
- Timedeltas
- MultiIndex Slicers
- *.dt* accessor

# Categorical Data

- Discrete & Limited Set of Values
- Possibly ordered
- Representation saves memory

# Categorical Data



# Categorical Data



# Timedeltas

- Track Intervals of Time
- Diff Datetimes / DatetimeIndexes
- 0-based time-like data

# Timedeltas



# Timedeltas





# MultiIndex Slicers

- Introduced in 0.14
- Allow multi-dimensional index slicing 'easily'
- Replace the need for `.xs`
- Allow setting

# MultiIndex Slicers



## *.dt* accessors

- disambiguate values vs index
- allow the select attribute based on the type of object
- selective tab completion

# What's in the future?

- IntervalIndex
- CategoricalIndex
- pd.String
- TZ aware blocks
- dynd
- bcolz / virtualized DataFrames

<https://github.com/libdynd/dynd-python>

<https://github.com/Blosc/bcolz>