

Casting Data



Casting Data with the *to_numeric()* MMethod

- In order to do numeric calculations (e.g. mean) on a DataFrame, the data type of the relevant columns need to be numeric
- Sometimes pandas will load data as a different data type, for example as an "object"
 - In this case, we need to cast the DataFrame to a numeric value
- To cast a DataFrame column to a numeric value, you can use the *to_numeric()* method
- For example, to cast the *salary* column in a DataFrame *df*

```
df['salary'] = pd.to_numeric(df['salary'], errors='coerce')
```

#The "errors" argument will catch (and ignore) any records where salary cannot be converted to a number



Casting Data with the *astype()* Method

- In order to work with raw text in a DataFrame, the relevant columns need to be strings
 - An example of this would be, checking if a word appears in a column, or replacing specific text in a column
- Depending on the data type of the column, we may need to cast to a string
- To do this, you can use the *astype()* method
- For example, to cast the *description* column in a DataFrame *df*
`df['description'] = df['description'].astype(str)`

