
IDS exercise 1

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This module generates plots on statistic extracted from the csv file which can be found at: <https://www.kaggle.com/martj42/international-football-results-from-1872-to-2017>

`indicator.functional.csv_reader (file_name: str) → Iterator[str]`

Generates an iterator per line from a file encoded in utf8, specified with file_name

`indicator.functional.generate_indicators (file: str) → Iterator[Dict[str, Union[str, int, float, List[int]]]]`

Iterates `generate_rows()` which iterates `generate_rows()` to :func: `update_indicator`s` of teams in the csv file

After all the iterations, yields the result

`indicator.functional.generate_match_data (row: Iterator[Dict[str, str]]) → Iterator[Dict[str, Union[int, str]]]`

Given an iterator from `generate_rows()` yield relevant data per team

`indicator.functional.generate_rows (file: str) → Iterator[Dict[str, str]]`

Iterates through a csv file (path), picks the first line to be used as keys for the yielded list of returning dict

`indicator.functional.row_splitter (row: str) → List[str]`

Given a string returns a csv row, splits the cells into elements of a list

- **input is in the form::** row = "a,b,cn"

`indicator.functional.update_indicator (ind: Dict[str, Union[str, int, List[int]]], md: Dict[str, Union[str, int, List[int]]]) → Dict[str, Union[str, int, List[int]]]`

Updates team indicator (ind) with yielded match data (md)

```
def csv_reader(file_name: str) -> Iterator[str]:  
    """Generates an iterator per line from a file encoded in utf8, specified with file_  
    ↪name"""  
    for line in open(file_name, "r", encoding="utf8"):  
        yield line
```

```
def row_splitter(row: str) -> List[str]:  
    """Given a string returns a csv row, splits the cells into elements of a list  
  
    - input is in the form::  
      row = "a,b,c\n"  
    """  
    return row[:-1].split(',')
```

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`indicator.functional, ??`