

# **Effective Programming Practices for Economists**

## **Software engineering**

### **Introduction to error handling**

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# Motivation

- You have seen what good tracebacks and error messages give you:
  - Where did something go wrong?
  - What exactly went wrong?
  - Sometimes: How can you fix it
- You might also have seen some error messages that were not helpful at all

Goal: Learn how to add great error handling to your code

# Example

```
def create_markdown_table(data):
    """Create a markdown table from a list of
    dictionaries or a dictionary of lists.

    """
    if isinstance(data, dict):
        lod = convert_dol_to_lod(data)
    else:
        lod = data

    keys = list(lod[0])

    lines = [
        _create_header(keys),
        _create_separator(len(keys)),
    ]
```

```
def _create_header(keys):
    header = "|"
    for key in keys:
        header += f" {key} |"
    return header

def _create_separator(n_cols):
    separator = "|"
    for _ in range(n_cols):
        separator += " ----- |"
    return separator

def _create_data_row(row_dict):
    row_string = "|"
    for key in row_dict:
```