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):
                                             def _create_header(keys):
"""Create a markdown table from a list of
                                                 header = "|"
dictionaries or a dictionary of lists.
                                                 for key in keys:
                                                      header += f" \{key\} |"
0.00
                                                  return header
if isinstance(data, dict):
    lod = convert_dol_to_lod(data)
else:
                                              def _create_separator(n_cols):
                                                  separator = "|"
    lod = data
                                                  for _ in range(n_cols):
                                                      separator += " ----- | "
keys = list(lod[0])
                                                  return separator
lines = [
    _create_header(keys),
    _create_separator(len(keys)),
                                             def _create_data_row(row_dict):
                                                  row_string = "|"
                                                  for key in row_dict:
for row in lod:
                                                      row_string += f" {row_dict[key]} |"
    lines.append(_create_data_row(row))
                                                 return row_string
return "\n".join(lines)
```