

# **Effective Programming Practices for Economists**

## **Data management with pandas**

### **Functional data management**

Janoś Gabler and Hans-Martin von Gaudecker

# Example

consider this hypothetical survey about a programming course

```
>>> raw = pd.read_csv("survey.csv")  
>>> raw
```

Q001	Q002	Q003
0 strongly disagree	agree	python
1 strongly agree	strongly agree	Python
2 -77	disagree	R
3 agree	-77	Python
4 -99	-99	Python
5 NaN	strongly agree	Python
6 neutral	strongly agree	Python
7 disagree	agree	python
8 strongly agree	-99	PYTHON
9 agree	-99	Ypthon

From the metadata you know

- Q001: I am a coding genius
- Q001: I learned a lot
- Q003: What is your favourite language
- -77 not readable
- -99 no reply