

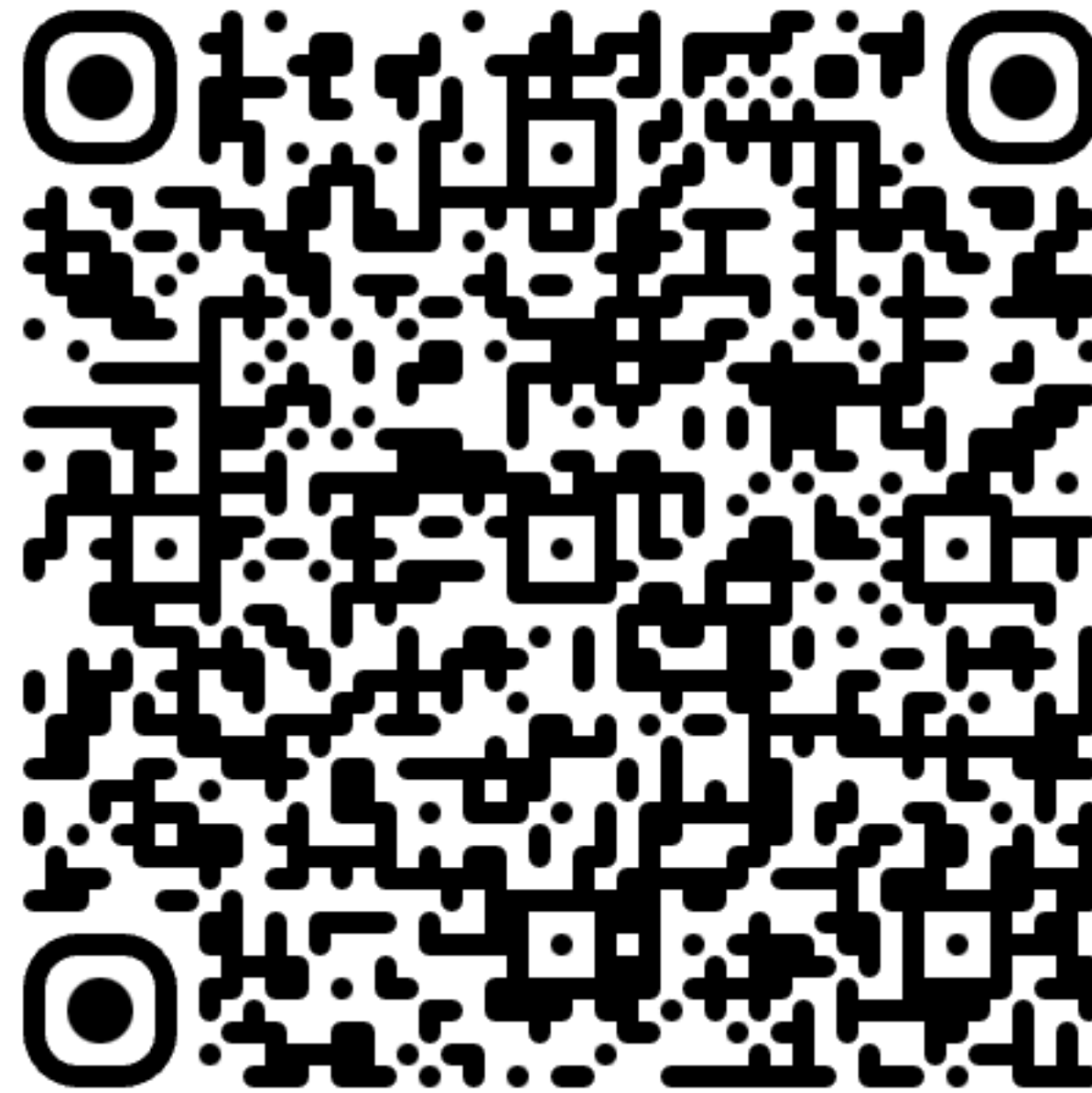
# **Coding for Economists**

## **Session 5**

**Jian Cao**

**23 February 2025**

# Module Files



[Google Drive Folder](#)

# Pandas Data Frame

|     | Country                     | GDP_per_capita | Inflation_rate | Literacy_rate |
|-----|-----------------------------|----------------|----------------|---------------|
| 0   | Afghanistan                 | 510.787063     | NaN            | NaN           |
| 1   | Africa Eastern and Southern | 1344.080962    | 5.405162       | 72.855759     |
| 2   | Africa Western and Central  | 1664.249176    | 2.490378       | 59.703239     |
| 3   | Algeria                     | 3743.541952    | 2.415131       | NaN           |
| 4   | Algeria                     | 3743.541952    | 2.415131       | NaN           |
| ... | ...                         | ...            | ...            | ...           |
| 261 | West Bank and Gaza          | 3233.568638    | -0.735332      | 98.000000     |
| 262 | World                       | 10916.687666   | 1.905664       | 86.747452     |
| 263 | Yemen, Rep.                 | 559.564673     | NaN            | NaN           |
| 264 | Zambia                      | 951.644317     | 15.733060      | 87.500000     |
| 265 | Zimbabwe                    | 1730.413489    | 557.201817     | 0.000000      |

# Pandas Data Frame

- Creating, Indexing, Editing

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# Pandas Data Frame

- Creating, Indexing, Editing
- Merging, Filtering, Reshaping

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# Pandas Data Frame

- Creating, Indexing, Editing
- Merging, Filtering, Reshaping
- Manipulating Columns

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# Pandas Data Frame

- Creating, Indexing, Editing
- Merging, Filtering, Reshaping
- Manipulating Columns
- Duplicates and Outliers

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# Pandas Data Frame

- Creating, Indexing, Editing
- Merging, Filtering, Reshaping
- Manipulating Columns
- Duplicates and Outliers
- Missing Values

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Session 5

# Data Manipulation

- NumPy: [Guide](#)
- Pandas: [Guide](#)