Exploring Data with pandas: Intermediate: Takeaways

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Syntax

USING ILOC[] TO SELECT BY INTEGER POSITION

• Selecting a value:

```
third_row_first_col = df.iloc[2,0]
```

• Selecting a row:

```
second_row = df.iloc[1]
```

CREATING BOOLEAN MASKS USING PANDAS METHODS

• Selecting only null values in a column:

```
rev_is_null = f500["revenue_change"].isnull()
```

• Filtering using Boolean series object:

```
rev_change_null = f500[rev_is_null]
```

• Selecting only the non-null values in a column:

```
f500[f500["previous_rank"].notnull()]
```

BOOLEAN OPERATORS

• Multiple required filtering criteria:

```
filter_big_rev_neg_profit = (f500["revenues"] > 100000) & (f500["profits"] < 0)</pre>
```

• Multiple optional filtering criteria:

```
filter_big_rev_neg_profit = (f500["revenues"] > 100000) | (f500["profits"] < 0)</pre>
```

Concepts

- To select values by axis labels, use loc[] . To select values by integer locations, use loc[] . When the label for an axis is just its integer position, these methods can be mostly used interchangeably.
- Because using a loop doesn't take advantage of vectorization, it's important to avoid doing so unless you absolutely have to. Boolean operators are a powerful technique to take advantage of vectorization when filtering because you're able to express more granular filters.

Resources

- Boolean Indexing
- iloc vs loc



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