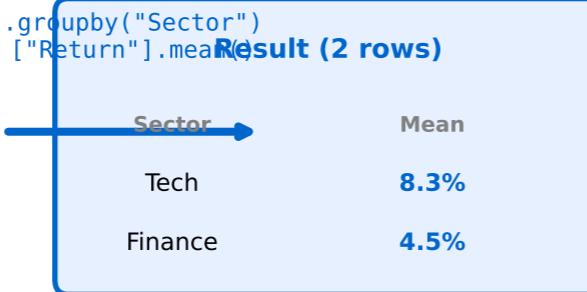


agg() - Aggregation

Reduces each group to a single value

Original (5 rows)		
Stock	Sector	Return
AAPL	Tech	5%
MSFT	Tech	8%
NVDA	Tech	12%
JPM	Finance	3%
GS	Finance	6%



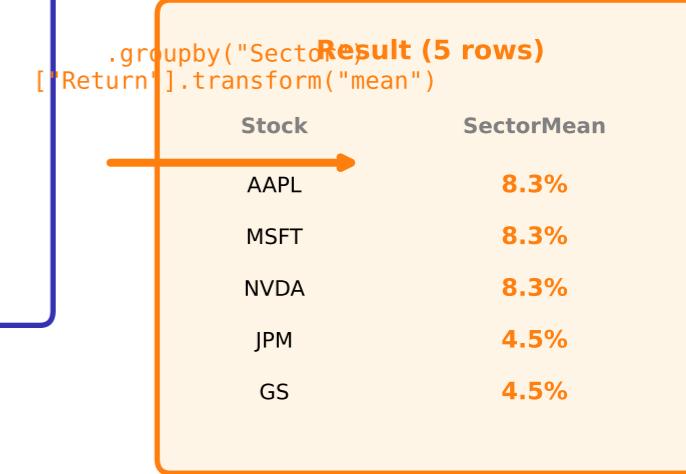
Use Case: Summary statistics, reports

```
sector_avg = df.groupby('Sector')['Return'].mean()
```

transform() - Transformation

Returns same shape as input

Original (5 rows)		
Stock	Sector	Return
AAPL	Tech	5%
MSFT	Tech	8%
NVDA	Tech	12%
JPM	Finance	3%
GS	Finance	6%



Use Case: Adding group-level stats to each row

```
df['SectorMean'] = df.groupby('Sector')['Return'].transform('mean')
```