Transformations and Actions: Takeaways

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Syntax

- Generate a sequence of values from an RDD:

```python
def hamlet_speaks(line):
id = line[0]
speaketh = False
if "HAMLET" in line:
    speaketh = True
if speaketh:
    yield id,"hamlet speaketh!"
hamlet_spoken = split_hamlet.flatMap(lambda x: hamlet_speaks(x))
```

- Return the number of elements in an RDD:

```python
hamlet_spoken_lines.count()
```

- Return a list representation of an RDD:

```python
hamlet_spoken_lines.collect()
```

Concepts

- `yield` is a Python technique that allows the interpreter to generate data as they work and pull it when necessary, as opposed to storing to the memory immediately.
- Spark takes advantage of 'yield' to improve the speed of computations.
- `flatMap()` is useful when you want to generate a sequence of values from an RDD.

Resources

- [Python yield](#)
- [Difference between map and flatMap in Apache Spark](#)