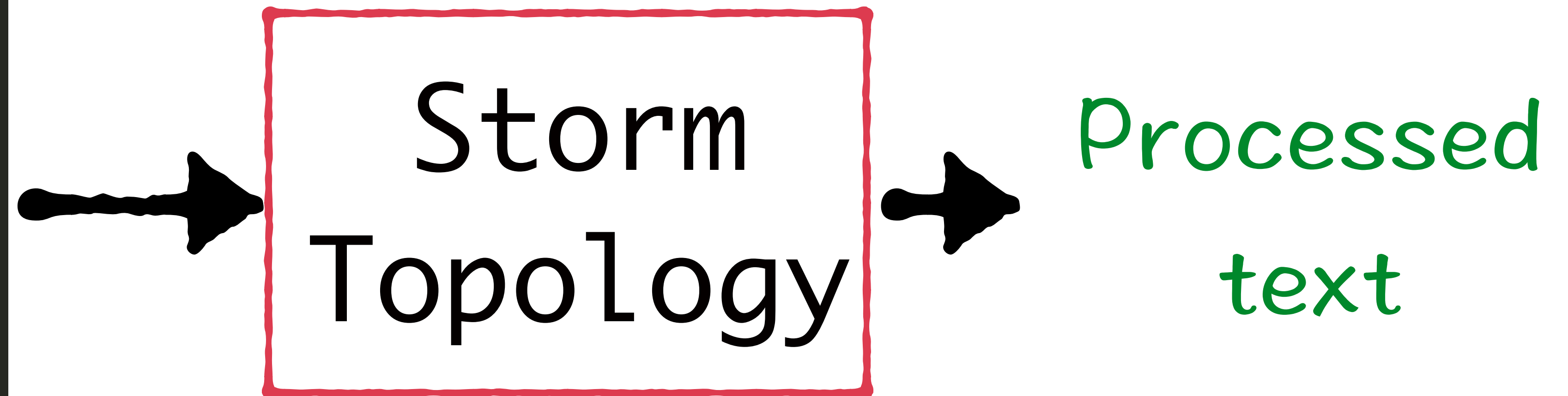


Reading from a File

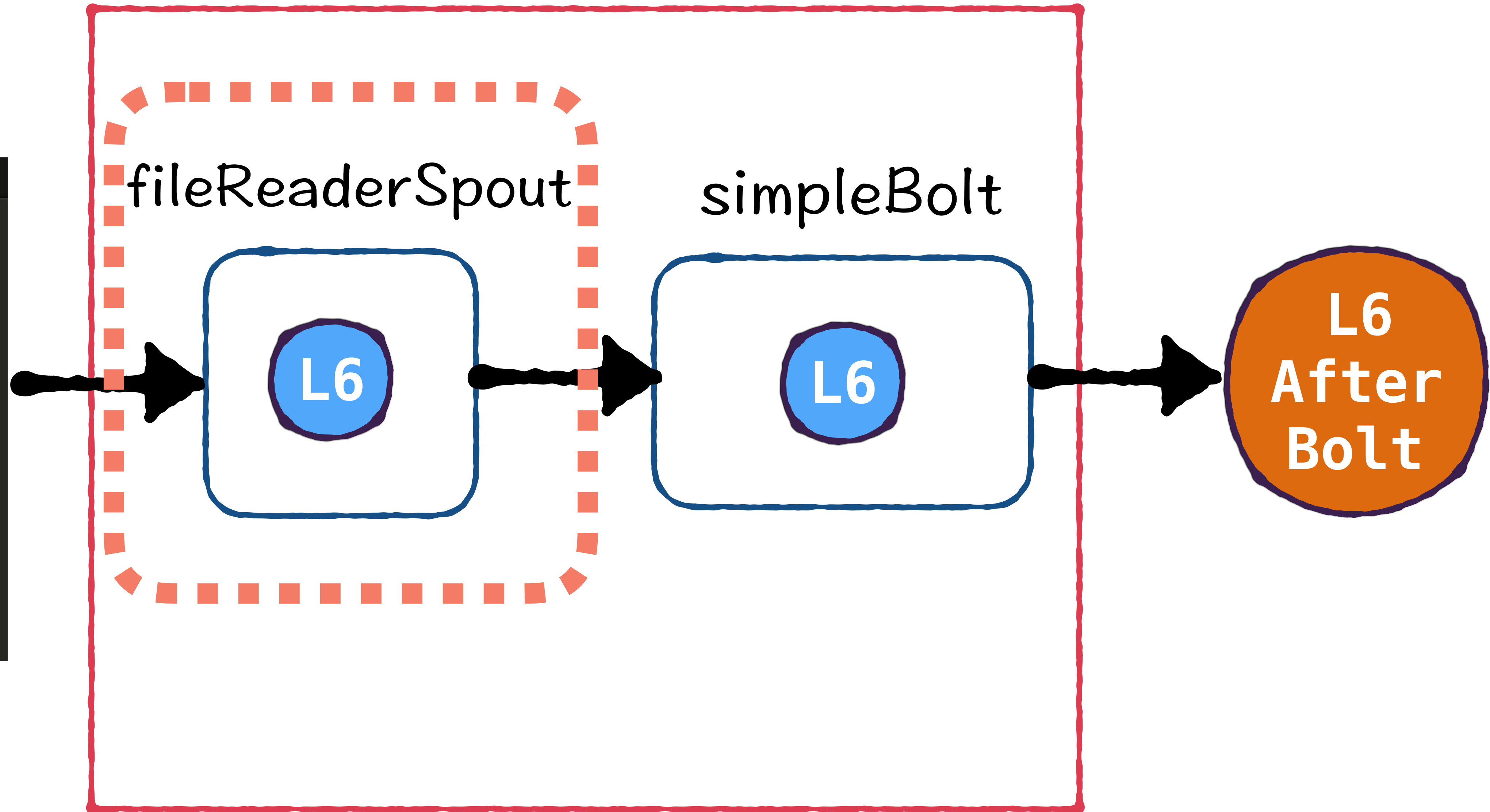
# Reading from a File

```
sample.txt *  
1 this  
2 is  
3 happening  
4 on  
5 storm  
6 a  
7 new  
8 streaming  
9 storm  
10 application  
11 cool  
12 application
```



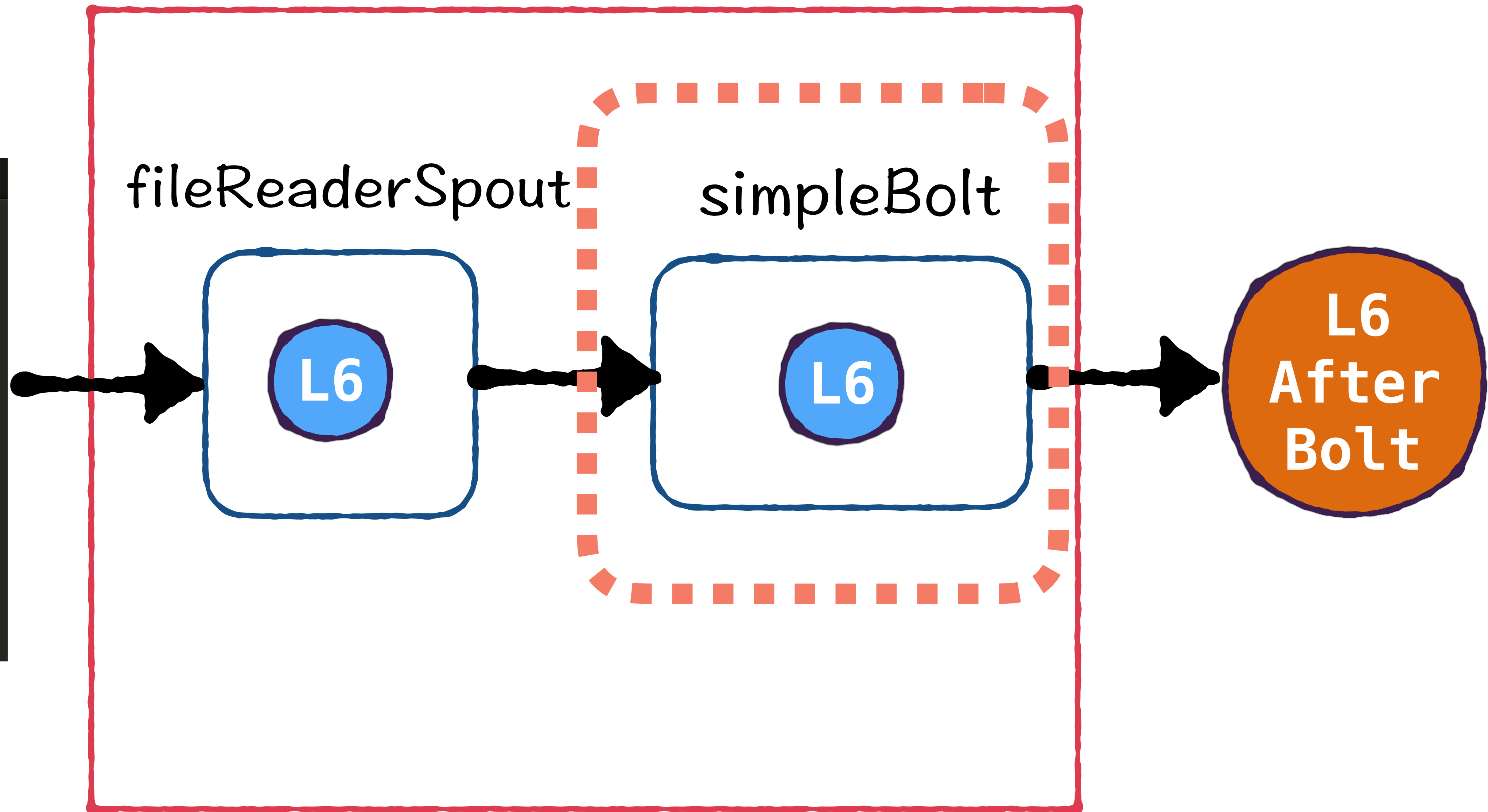
# Reading from a File

```
sample.txt
1 this
2 is
3 happening
4 on
5 storm
6 a
7 new
8 streaming
9 storm
10 application
11 cool
12 application
```



# Reading from a File

```
sample.txt
1 this
2 is
3 happening
4 on
5 storm
6 a
7 new
8 streaming
9 storm
10 application
11 cool
12 application
```



# Understanding Tuples

# Fields

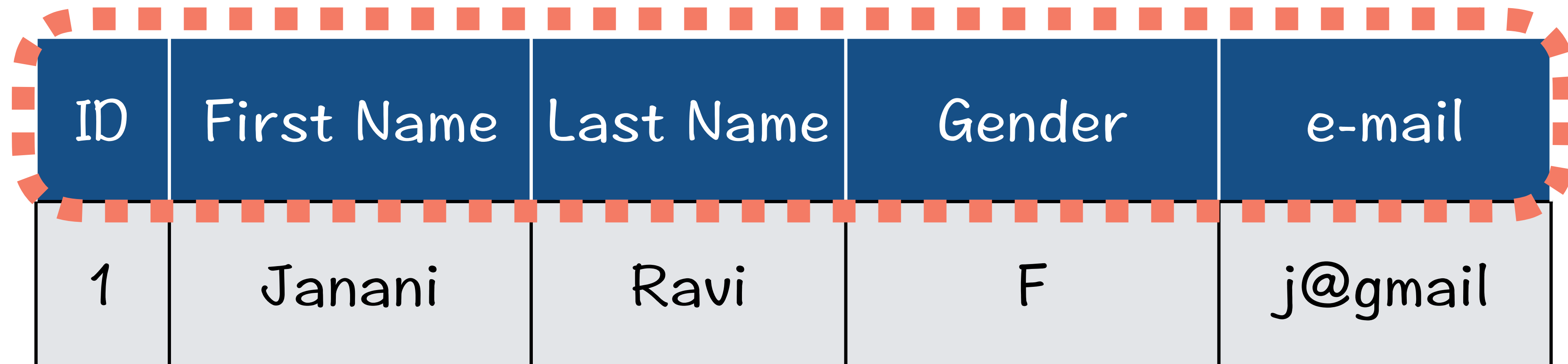
| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

Fields  
Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

Output fields are fixed for a  
Storm Component

Fields  
Values



| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

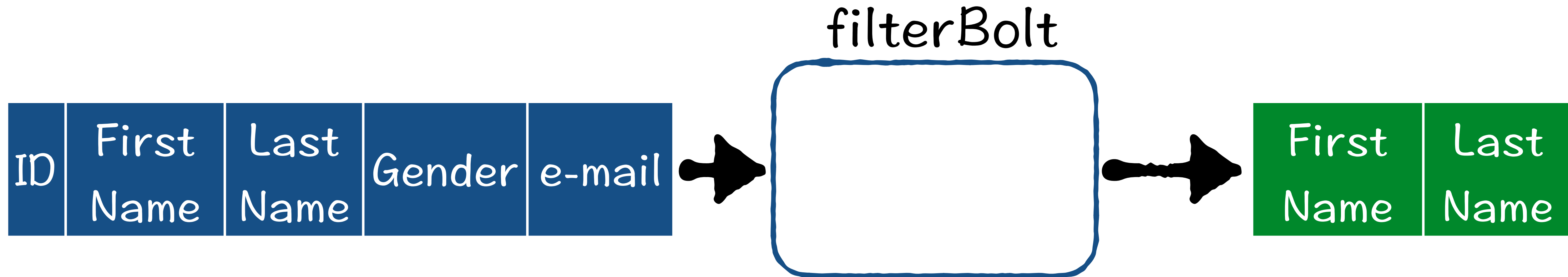


# Output fields are fixed for a Storm Component

fileReaderSpout

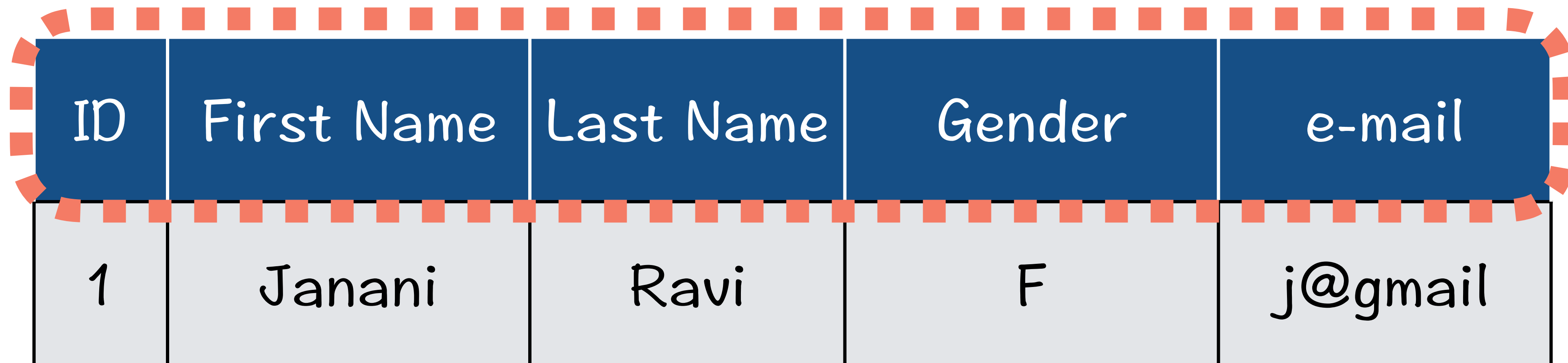


# Output fields are fixed for a Storm Component



Output fields are fixed for a  
Storm Component

Fields  
Values



| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

Output fields are fixed for a  
Storm Component

Fields

Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

```
public void declareOutputFields(OutputFieldsDeclarer  
declarer) {  
    declarer.declare(new  
Fields("id", "first_name", "last_name", "gender", "email"));  
}
```

Output fields are fixed for a  
Storm Component

Fields

Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

```
public void declareOutputFields(OutputFieldsDeclarer  
declarer) {  
    declarer.declare(new  
Fields("id", "first_name", "last_name", "gender", "email"));  
}
```

# Output fields are fixed for a Storm Component

Fields  
Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

```
public void declareOutputFields(OutputFieldsDeclarer declarer) {  
    declarer.declare(new  
Fields("id", "first_name", "last_name", "gender", "email"))  
};
```

Fields

Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

```
collector.emit(new Values(str.split(",")))
```

Fields

Values

| ID | First Name | Last Name | Gender | e-mail  |
|----|------------|-----------|--------|---------|
| 1  | Janani     | Ravi      | F      | j@gmail |

```
collector.emit(new Values(str.split(",")))
```

```
Values(Object... vals)
```

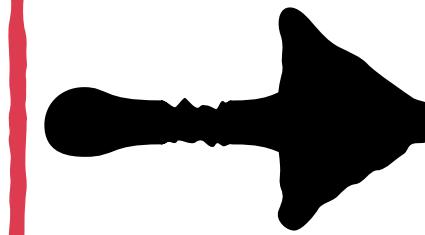
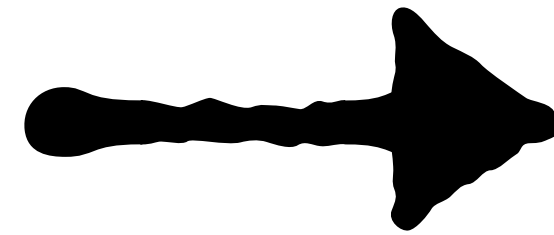


Extracting Fields from a File

# Extracting Fields

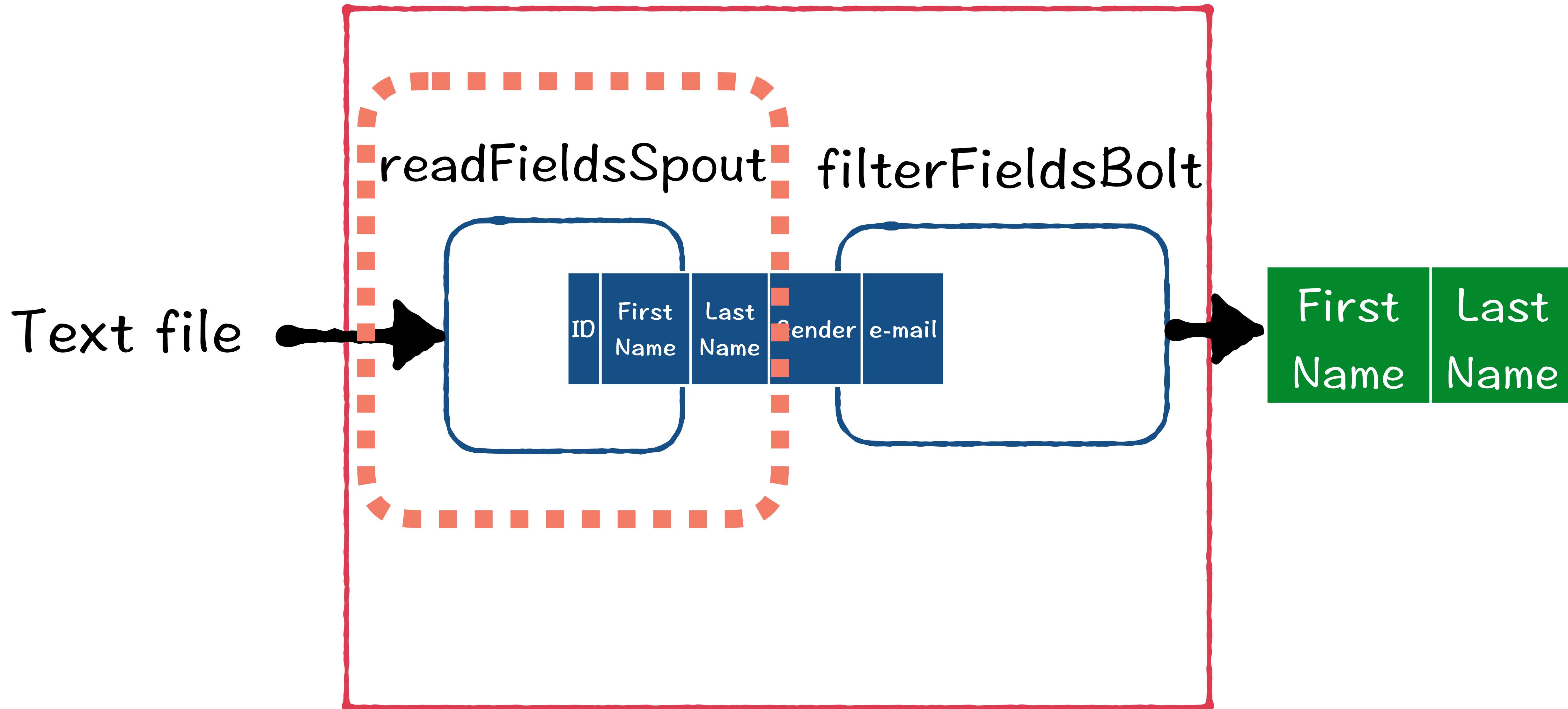
Text file

|    |               |              |        |        |
|----|---------------|--------------|--------|--------|
| ID | First<br>Name | Last<br>Name | Gender | e-mail |
|----|---------------|--------------|--------|--------|

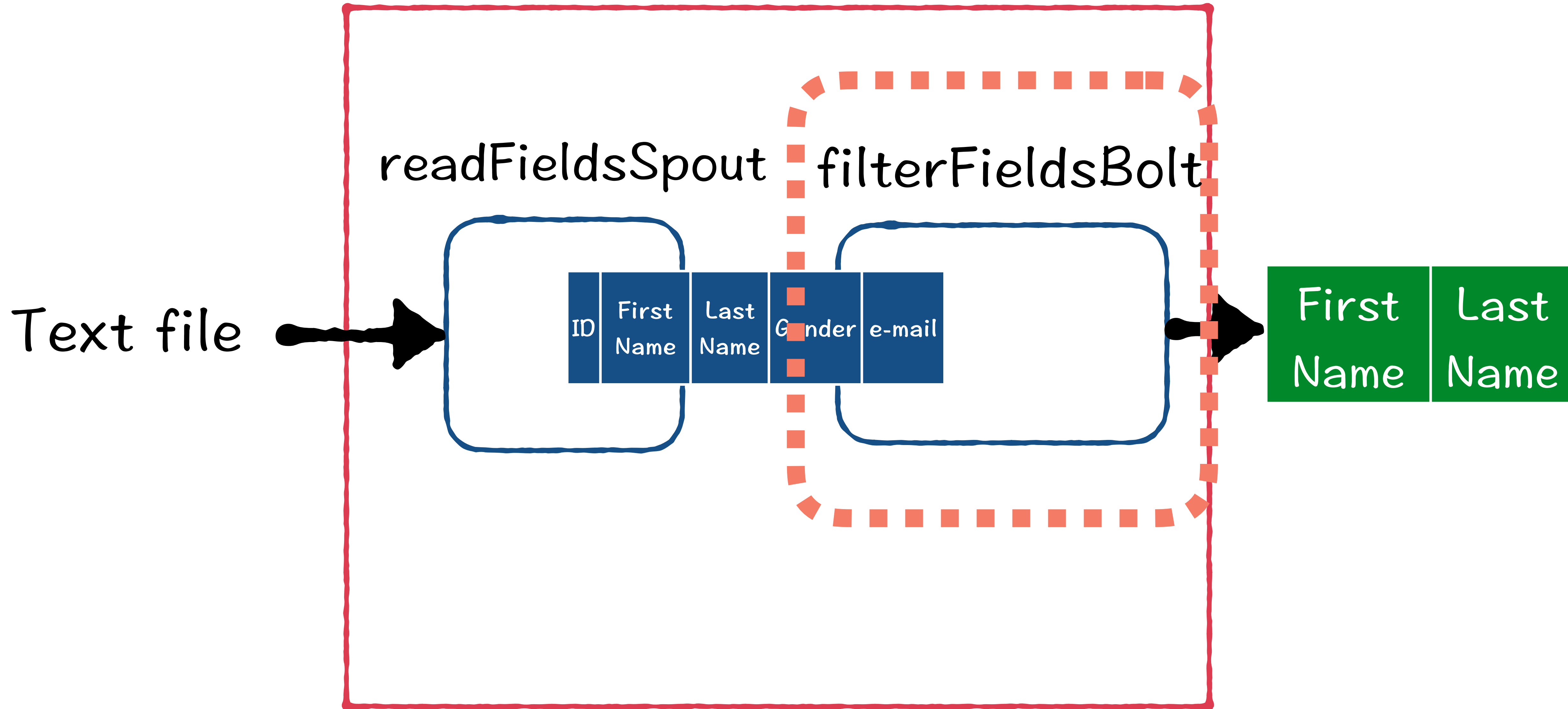


|               |              |
|---------------|--------------|
| First<br>Name | Last<br>Name |
|---------------|--------------|

# Extracting Fields



# Extracting Fields

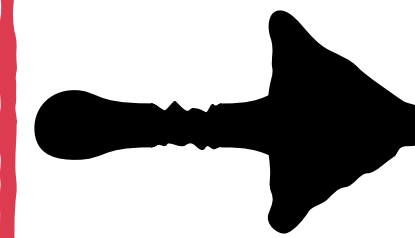
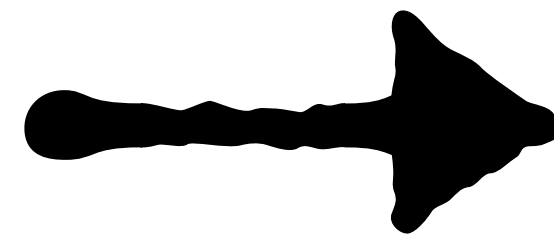


Writing to File

# Writing to File

Text file

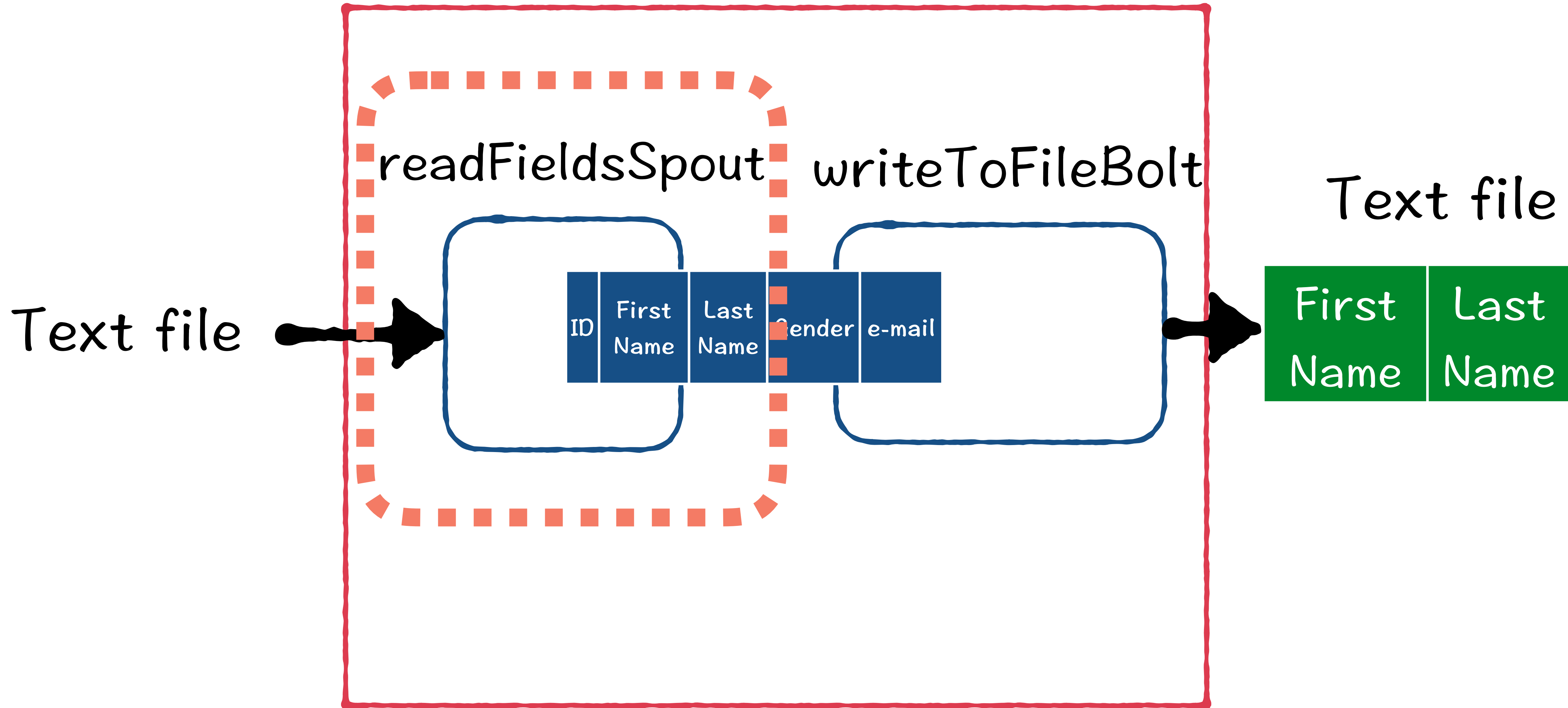
|    |               |              |        |        |
|----|---------------|--------------|--------|--------|
| ID | First<br>Name | Last<br>Name | Gender | e-mail |
|----|---------------|--------------|--------|--------|



Text file

|               |              |
|---------------|--------------|
| First<br>Name | Last<br>Name |
|---------------|--------------|

# Writing to File



# Writing to File

