Operators

Operators define the atomic steps of work that make up a DAG. Airflow comes with many Operators that can perform common operations. Here are a handful of common ones:

- PythonOperator
- PostgresOperator
- RedshiftToS30perator
- S3ToRedshiftOperator
- BashOperator
- SimpleHttpOperator
- Sensor

Task Dependencies

In Airflow DAGs:

- Nodes = Tasks
- Edges = Ordering and dependencies between tasks

Task dependencies can be described programmatically in Airflow using |>> | and | << |

- a >> b means a comes before b
- a << b means a comes after b

```
hello_world_task = PythonOperator(task_id='hello_world', ...)
goodbye_world_task = PythonOperator(task_id='goodbye_world', ...)
# Use >> to denote that goodbye_world_task depends on hello_world_task
hello_world_task >> goodbye_world_task
```

Tasks dependencies can also be set with "set_downstream" and "set_upstream"

- a.set_downstream(b) | means a comes before b
- a.set_upstream(b) means a comes after b

```
hello_world_task = PythonOperator(task_id='hello_world', ...)
goodbye_world_task = PythonOperator(task_id='goodbye_world', ...)
hello_world_task.set_downstream(goodbye_world_task)
```