

Exporting Artifacts



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Overview



Examples of artifacts

How to save an artifact

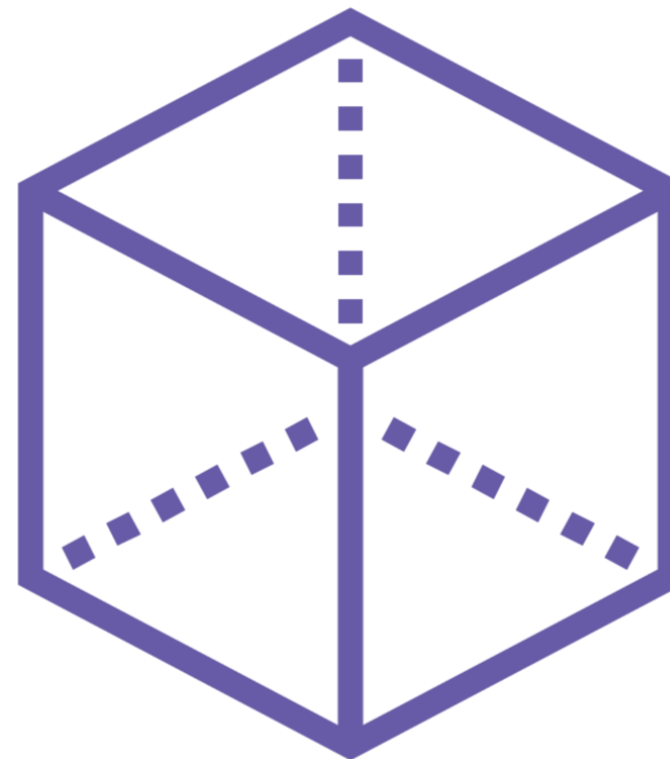
Demo



Some Examples



Plots



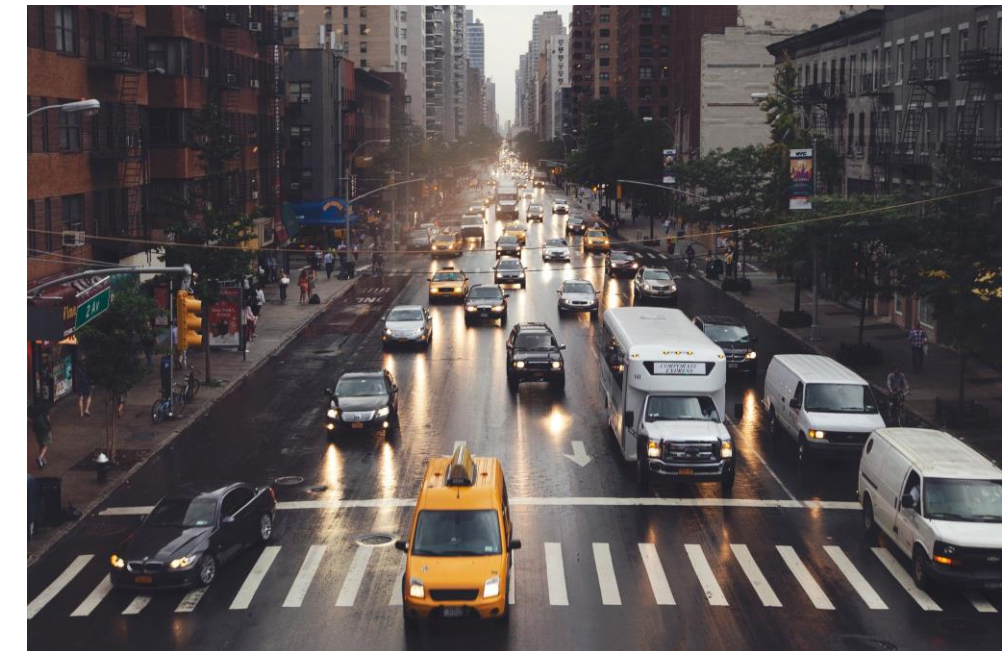
Models



Datasets



Verifying Correctness of a Transformation





Aside from parameters and metrics, we need to store files.



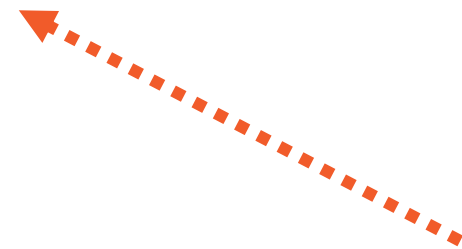
Without MLflow



Everyone needs to agree on and adhere to the convention.



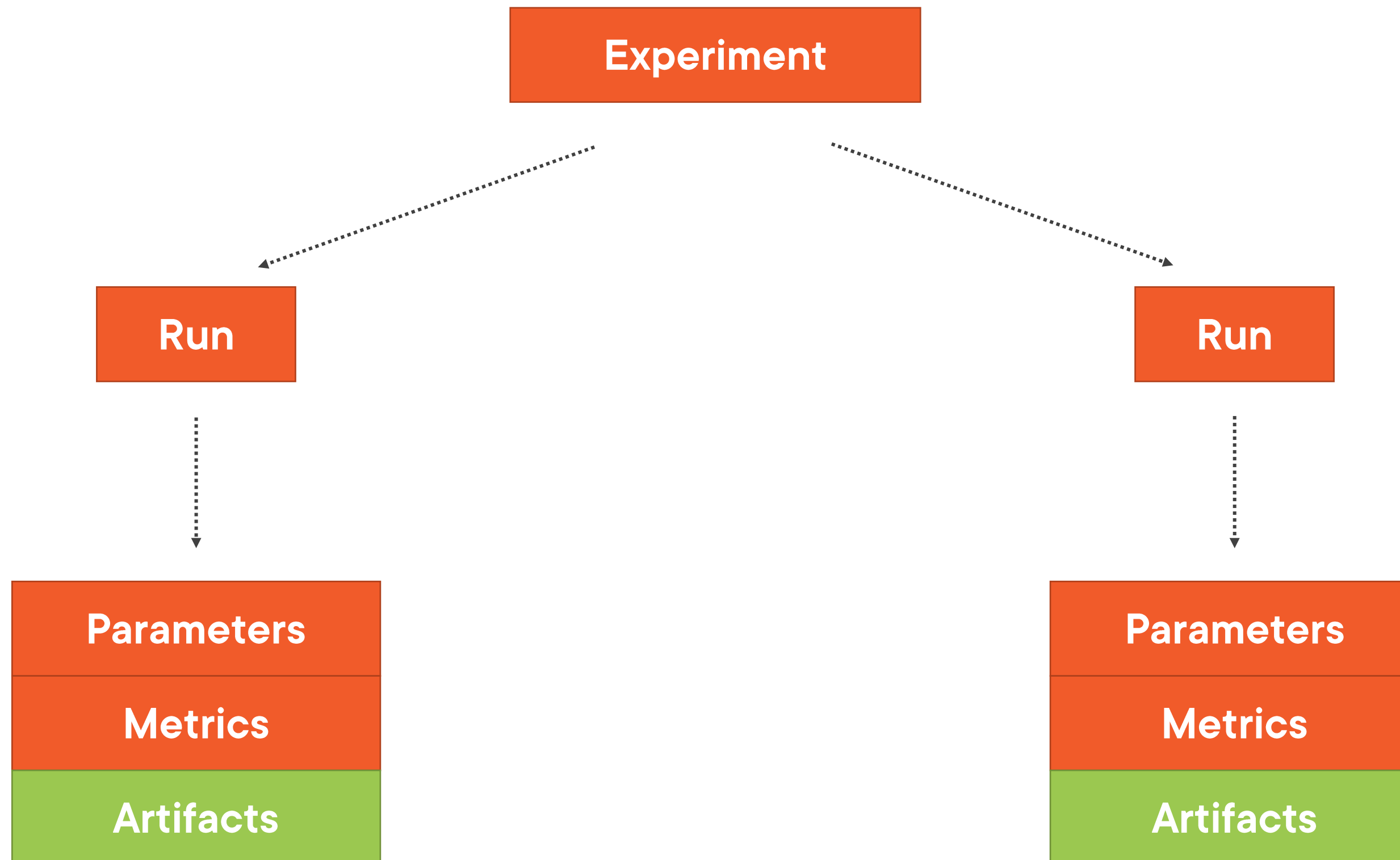
Need to manually maintain a directory structure that can be matched to experiments and runs.



With MLflow



With MLflow



Exporting an Artifact

Store the file in a temporary location on disk
Log (export) it using MLflow API



Exporting an Artifact

```
import mlflow
import pickle

model = ... # e.g. LinearRegression
serialized_model = pickle.dumps(model)

with open("some_temporary_folder/model.pkl", "wb") as m:
    m.write(serialized_model)

mlflow.log_artifact("some_temporary_folder/model.pkl")
```



Exporting an Artifact

```
import mlflow
import pickle

model = ... # e.g. LinearRegression
serialized_model = pickle.dumps(model)

with open("some_temporary_folder/model.pkl", "wb") as m:
    m.write(serialized_model)

mlflow.log_artifacts("some_temporary_folder")
```



Demo



Logging the model

Adding more artifacts

Browsing files using the UI



Summary



The need for artifacts in MLflow

Logging (exporting) artifacts with MLflow

Using the UI to browse the artifacts

