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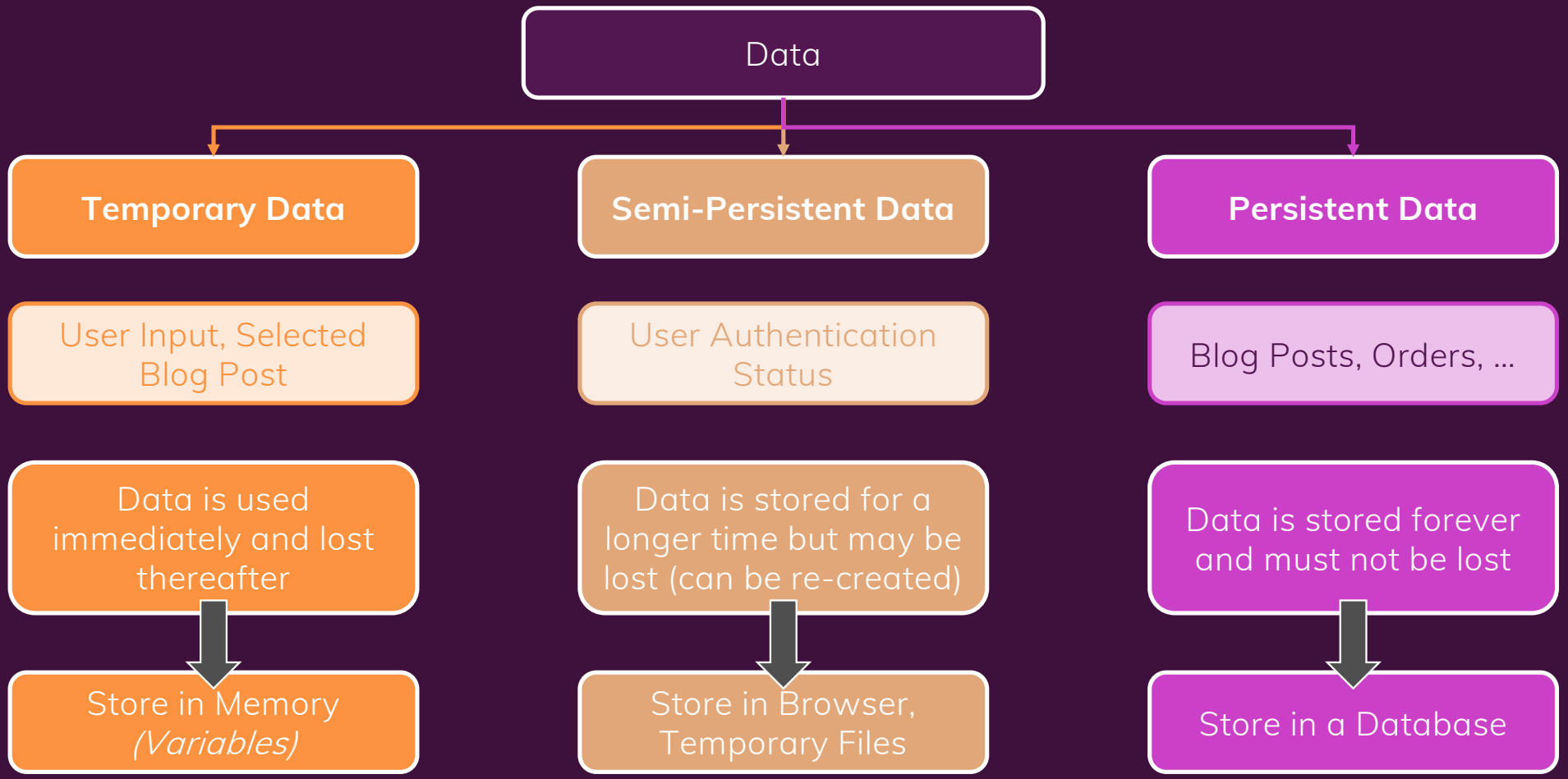
What is “Data”?



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Databases

SQL

Table-based

Id	Name	Age
1	Max	31
2	Manu	32

MySQL, PostgreSQL, SQLite

NoSQL

Document-based

```
{ id: 1, name: “Max”, age: 31 },
{ id: 2, name: “Manu”, age: 32 }
```

MongoDB, Cassandra

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Understanding SQL

Create table & set table schema

(only done once, when DB is initialized)

```
CREATE TABLE books (
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    title TEXT NOT NULL,
    rating INTEGER NOT NULL
)
```

Insert data into table

```
INSERT INTO books ( title, rating )
VALUES ('Lord of the Rings', 5)
```

Get data from table (possible with condition)

```
SELECT * FROM books WHERE rating > 5
```

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The Role Of Django Models

Focus on your data, not on the queries!

Define data models and use objects based on those models to run common operations

Django models translate instructions (written with Python) to SQL queries