MySQL

Why Databases Are Awesome

MySQL

What Is A Database?

MySQL

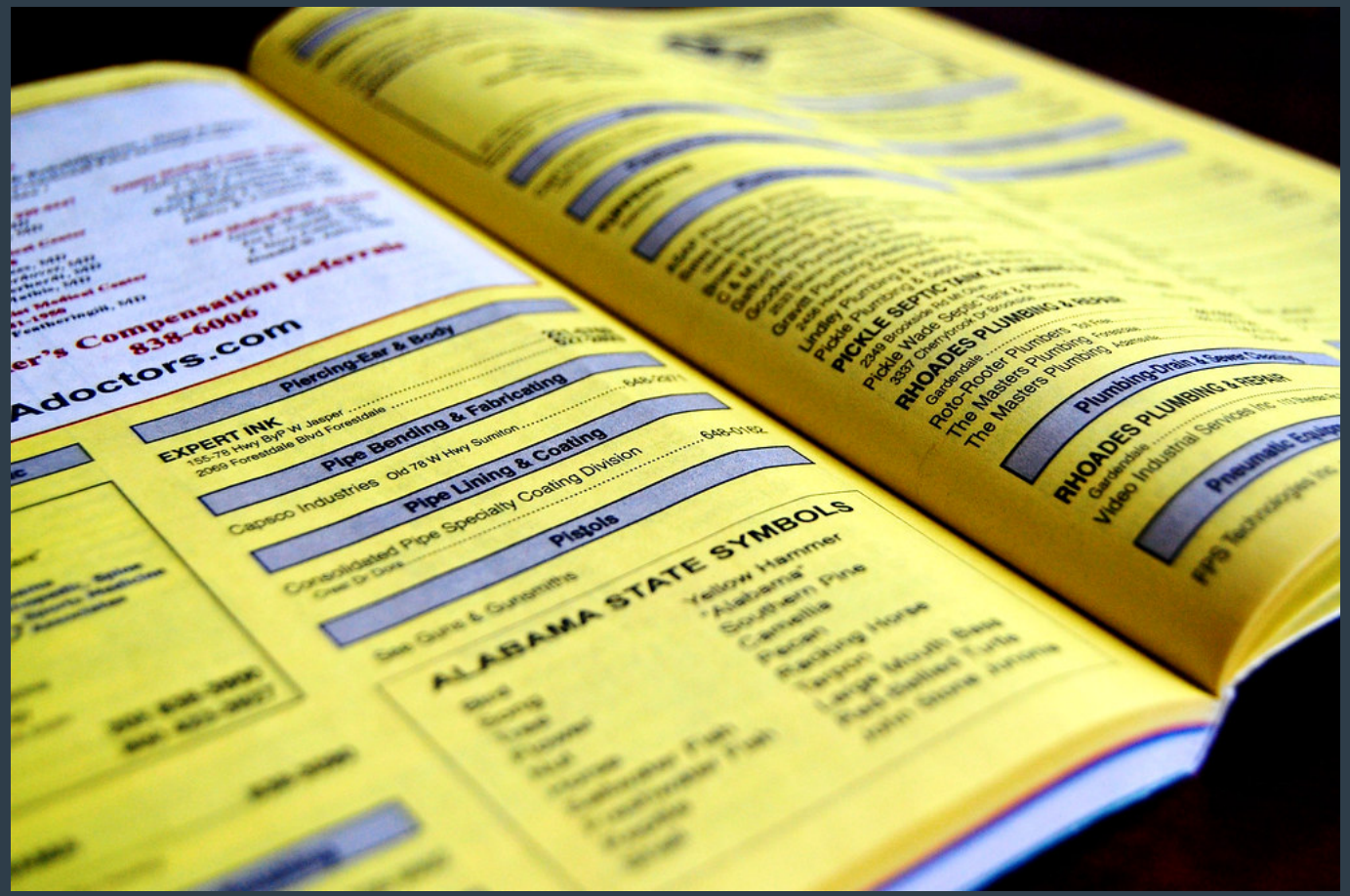
What Is A Database?

Why Do They Matter?

What Is A Database?

1. A collection of data

A Phone Book!


Piercing-Ear & Body
EXPERT INK
Pipe Bending & Fabricating
Capsco Industries
Pipe Lining & Coating
Consolidated Pipe Specialty Coating Division
Pistols
ALABAMA STATE SYMBOLS
PICKLE SEPTIC
PICKLE PLUMBING
RHOADES PLUMBING
Roto-Rooter Plumbers
The Masters Plumbing
Plumbing-Drain & Sewer Cleaning
RHOADES PLUMBING
Video Industrial Services

A Quick Example

```
Andrews, Archie   - (949)345-2222
Cooper, Betty     - (212)246-9846
Flanders, Ned     - (415)987-3451
Jones, Jughead    - (415)888-3777
Lodge, Veronica   - (714)332-0981
Snow, Jon         - (949)621-1908
Stark, Ned        - (310)119-6501
```

Find Ned Flanders' Phone Number

Find People With First Name "Ned"

Find All Phone Numbers With Area Code 415

Find All People Who Have a 3-letter First Name

What Is A Database?

1. A collection of data

2. A method for accessing
and manipulating that data

A Quick Example

```
Andrews, Archie   - (949)345-2222
Cooper, Betty     - (212)246-9846
Flanders, Ned     - (415)987-3451
Jones, Jughead    - (415)888-3777
Lodge, Veronica   - (714)332-0981
Snow, Jon         - (949)621-1908
Stark, Ned        - (310)119-6501
```

Find Ned Flanders' Phone Number

Find People With First Name "Ned"

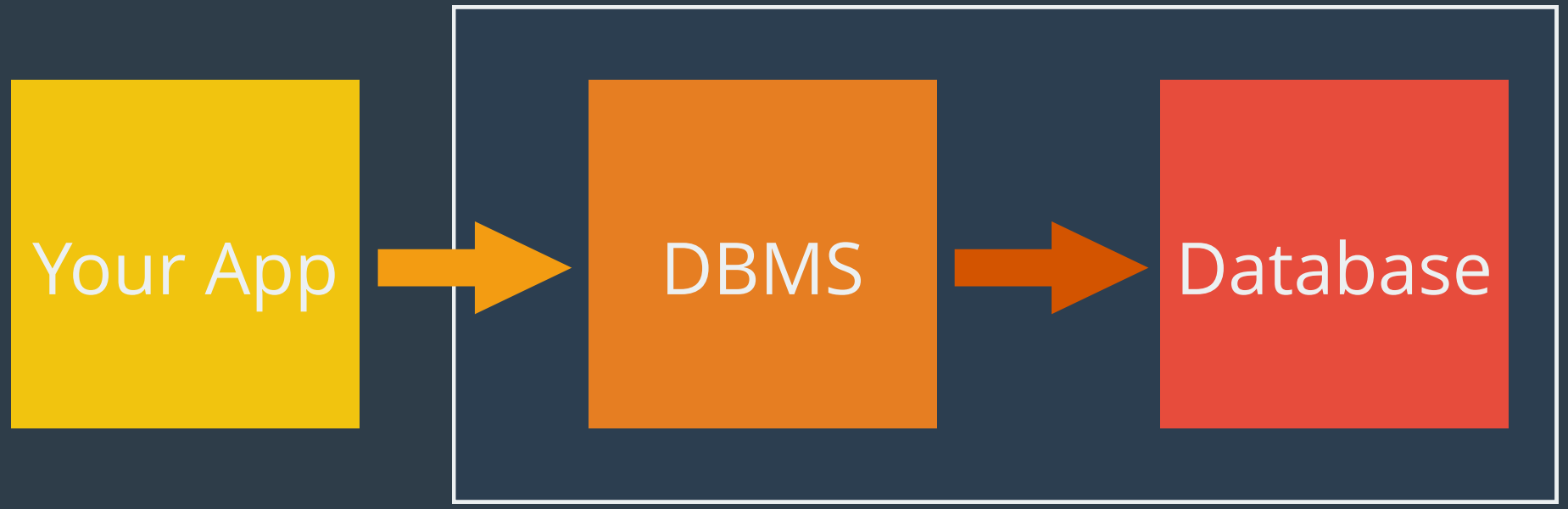
Find All Phone Numbers With Area Code 415

Find All People Who Have a 3-letter First Name

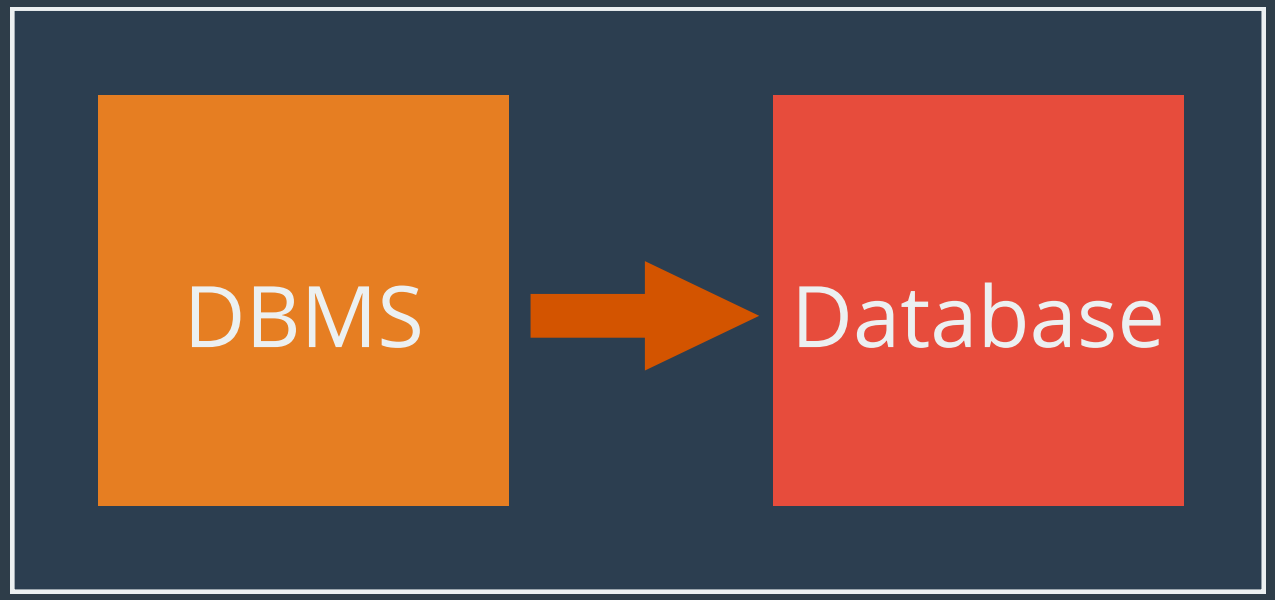
Database

Vs.

Database Management System



"Database"



PostgreSQL

MySQL

Oracle Database

SQLite

What Is A Database?

A structured set of computerized data with an accessible interface

Why Do They Matter?

Well...why does data matter?

Data

Is

Knowledge

Data

Is

Money

You've probably heard of big data....

It's ok if you haven't!

Data has always played an important role in industries

But now, data itself is a huge booming industry!

Why MySQL?

Some Popular Databases

- MongoDB
- Oracle
- MySQL
- SQLite
- PostgreSQL
- MaxDB
- Firebird
- Redis

Some Popular Databases

- MongoDB
- Oracle
- MySQL
- SQLite
- PostgreSQL
- MaxDB
- Firebird
- Redis

MySQL

vs.

SQL

Let's Start With SQL

Structured Query Language

SQL is the language we use to "talk" to our databases

"Find All Users"

"Find All Users Who Are 18 Years Old"

"Add A New User With Username 'JumboJim'"

Delete Every Single User!

A Quick Preview!

Find All Users Who Are 18 Or Older

```
SELECT * FROM Users WHERE Age >= 18;
```

Working With MySQL Is Primarily Writing SQL

Relational Databases

- MySQL
- SQLite
- PostgreSQL
- Oracle
- Many Others

} All Use SQL

MySQL

```
SELECT * FROM Users WHERE Age >= 18;
```

PostgreSQL

```
SELECT * FROM Users WHERE Age >= 18;
```

There Are Slight Differences In Syntax

Which We'll Talk About In This Course!

Two Takeaways

1. Once you learn SQL, it's pretty easy to switch to another DB that uses SQL

2. What makes databases (DBMS) unique are the features they offer, not the language

Some Code

```
SELECT * FROM animals;
```

```
SELECT species, status FROM animals;
```