

# Doctrine Workshop

## Installing Doctrine

- Installing via Pear
- Installing via SVN
- Installing by downloading package

## Starting Application

- Simple MVC application
- Home brewed database abstraction layer
- Vulnerable to SQL injections
- Hard to maintain
- Lots of things done manually

## Connections

- Bootstrap Doctrine autoloader
- Using the DSN(Data Source Name)
- Creating connections
- Creating and dropping databases
- Executing raw queries with PDO
- Managing multiple connections
- Binding models to connections
- Lazy connections
- Using existing PDO instances
- Managing connections
- Connection profiling/query logging

## Configuration

- Global attributes
- Connection attributes
- Record attributes
- Table options

## Database Abstraction Layer

- Complete API for altering databases

- Creating tables
- Creating and dropping databases
- Executing SQL queries

## Models

- Writing your models in PHP
- Model autoloading
- Using Models
- Create tables from your models

## Relationships

- Many to Many
- Equal Many to Many
- One to Many
- One to One
- Self Referencing
- Cascading operations

## Retrieving Data

- Doctrine Query Language
- Querying Many to Many relationships
- Magic finder methods
- Custom finder methods
- Named queries
- Hydration methods

## Working with Objects

- Modifying objects
- Saving objects
- Deleting objects
- Linking Objects
- From arrays
- Synchronizing with arrays

## Events

- Using event listeners
- Connection listeners
- Record listeners
- DQL callbacks
- Hydration listeners

## Inheritance

- Single Table
- Concrete
- Column Aggregation

## Behaviors

- Core behaviors
- Loading behaviors
- Writing your own behaviors

## Schema Files

- Generate YAML from existing database or set of models
- Alternatively specify schema information in YAML
- Generate PHP code from YAML

## Data Fixtures

- Writing data fixtures
- Loading data fixtures
- Dumping data fixtures

## Migrations

- Generating migrations from models and existing databases
- Developing migrations for model schema changes
- Running migrations

## Unit Testing

- Testing your model
- Writing tests
- Running tests