



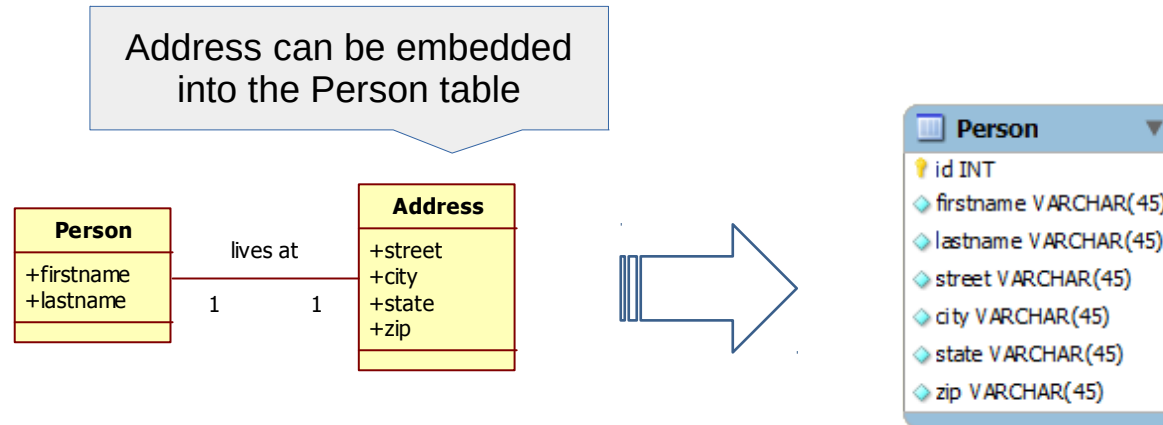
CS544 EA

Hibernate

Complex: Embedded Classes

# Embedded Classes

- Called **Value classes** instead of entity classes
  - Like a property value, can be embedded in entity
  - Useful for tight associations (like one to one)



# Embeddable

- @Embeddable instead of @Entity
  - No @Id inside an @Embeddable

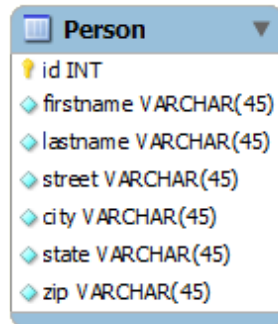
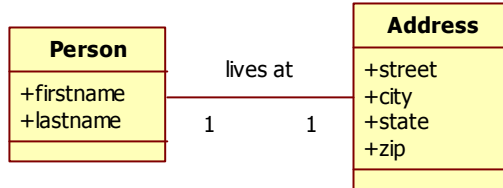
```
@Embeddable
public class Address {
    private String street;
    private String city;
    private String state;
    private String zip;

    ...
}
```

```
@Entity
public class Person {
    @Id
    @GeneratedValue
    private Long id;
    private String firstName;
    private String lastName;
    @Embedded
    private Address address;

    ...
}
```

@Embedded instead of  
@OneToOne



# Multiple Embedded

```
@Entity
public class Customer {
    @Id
    @GeneratedValue
    private int id;
    private String firstname;
    private String lastname;

    @Embedded
    @AttributeOverrides( {
        @AttributeOverride(name="street", column=@Column(name="ship_street")),
        @AttributeOverride(name="city", column=@Column(name="ship_city")),
        @AttributeOverride(name="state", column=@Column(name="ship_state")),
        @AttributeOverride(name="zip", column=@Column(name="ship_zip"))
    })
    private Address shipping;

    @Embedded
    @AttributeOverrides( {
        @AttributeOverride(name="street", column=@Column(name="bill_street")),
        @AttributeOverride(name="city", column=@Column(name="bill_city")),
        @AttributeOverride(name="state", column=@Column(name="bill_state")),
        @AttributeOverride(name="zip", column=@Column(name="bill_zip"))
    })
    private Address billing;
}
```

Use @AttributeOverrides  
to change the column names

ID	FIRSTNAME	LASTNAME	SHIP_STREET	SHIP_CITY	SHIP_STATE	SHIP_ZIP	BILL_STREET	BILL_CITY	BILL_STATE	BILL_ZIP
1	Frank	Brown	45 N Main St	Chicago	Illinois	51885	100 W Adams St	Chicago	Illinois	60603