

# CIS 1068

November 14, 2024

# Administrative Stuff

- ▶ Lab 9 due
- ▶ Lab 10 soon
- ▶ Reading. Not as simple

# Administrative Stuff. Dates

November 2024

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

December 2024

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

dates

Nov 14 today

Nov 23 - Dec 1 break

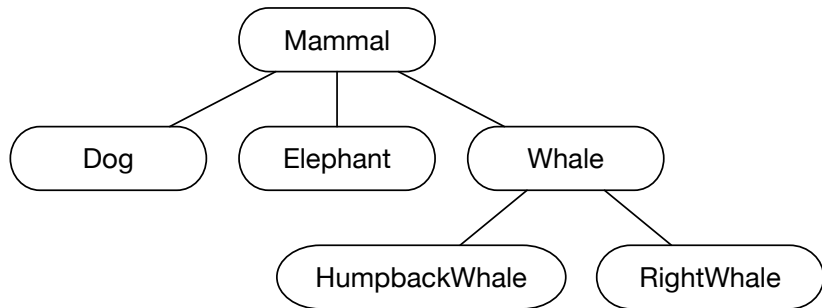
Dec 5 last class

Dec 9 last lab

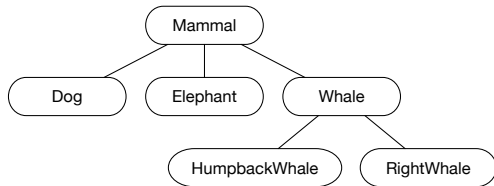
Dec 10 study day

Dec 12 final exam 8 AM -  
10 AM. Really 8  
AM

## Warm up. Class Hierarchy



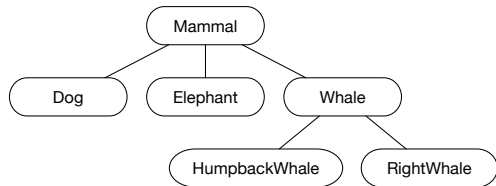
OK?



```
Mammal m = new Whale();
```

- ▶ What can `m` store?
- ▶ What is stored?
- ▶ OK?

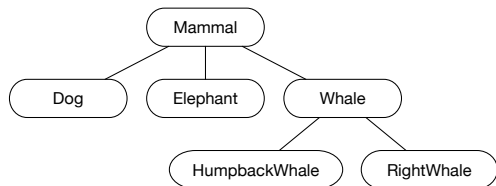
OK?



```
Mammal m = new Whale();
```

- ▶ What can `m` store?  
**location of a mammal**
- ▶ What is stored?
- ▶ OK?

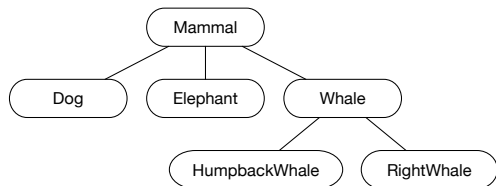
OK?



```
Mammal m = new Whale();
```

- ▶ What can `m` store?  
**location of a mammal**
- ▶ What is stored?  
**location of a Whale**
- ▶ OK?

OK?

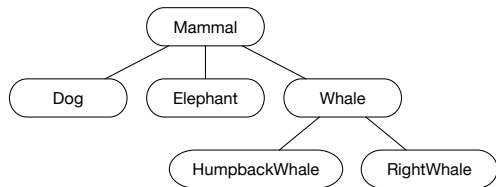


```
Mammal m = new Whale();
```

- ▶ What can `m` store?  
**location of a mammal**
- ▶ What is stored?  
**location of a Whale**
- ▶ OK? **Yes**



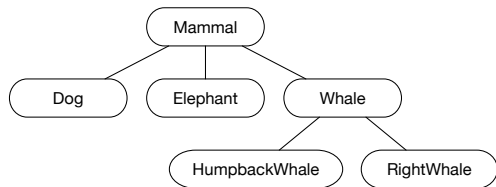
OK?



```
RightWhale r =  
    new Whale();
```

- ▶ What can `r` store?
- ▶ What is stored?
- ▶ OK?

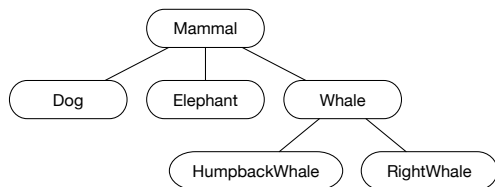
OK?



```
RightWhale r =  
    new Whale();
```

- ▶ What can `r` store?  
**location of a RightWhale**
- ▶ What is stored?
- ▶ OK?

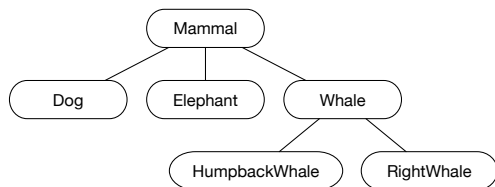
OK?



```
RightWhale r =  
    new Whale();
```

- ▶ What can `r` store?  
**location of a RightWhale**
- ▶ What is stored?  
**location of a Whale**
- ▶ OK?

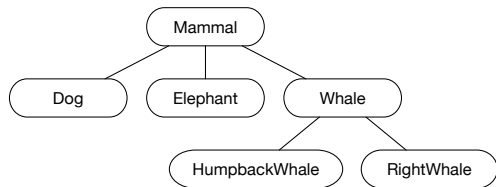
OK?



```
RightWhale r =  
    new Whale();
```

- ▶ What can `r` store?  
**location of a RightWhale**
- ▶ What is stored?  
**location of a Whale**
- ▶ OK? **No**

OK?

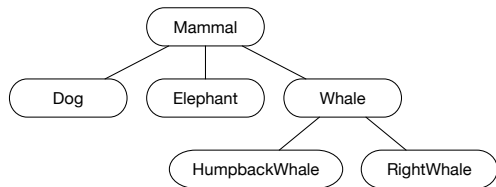


Mammal m =

```
new RightWhale();
```

- ▶ What can m store?
- ▶ What is stored?
- ▶ OK?

OK?

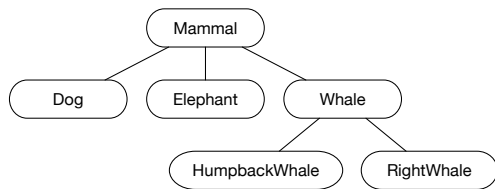


```
Mammal m =
```

```
new RightWhale();
```

- ▶ What can `m` store?  
**location of a mammal**
- ▶ What is stored?
- ▶ OK?

OK?

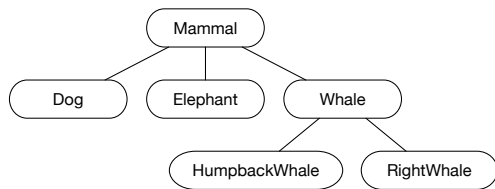


```
Mammal m =
```

```
new RightWhale();
```

- ▶ What can `m` store?  
**location of a mammal**
- ▶ What is stored?  
**location of a RightWhale**
- ▶ OK?

OK?



Mammal m =

```
new RightWhale();
```

- ▶ What can m store?  
**location of a mammal**
- ▶ What is stored?  
**location of a RightWhale**
- ▶ OK? **Yes**



Last time: lots on polymorphism

# Today

- ▶ polymorphism practice
- ▶ recursion
- ▶ exceptions