

This keyword

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Java

This is very confusing

Practicing will help.

What is this?

This is a keyword to refer to the object that's being called on.

This is used clarify which object is being referred to.

Mostly used inside Classes

This Example

Chicken here would compile.

But **which name is which?**

What is the line of code that
assigns the value?

The Chicken class is confusing here.

```
public class Chicken{  
    String name;  
    public Chicken(String name){  
  
    }  
}
```

This Example

This is possible.

BUT

It's not correct.

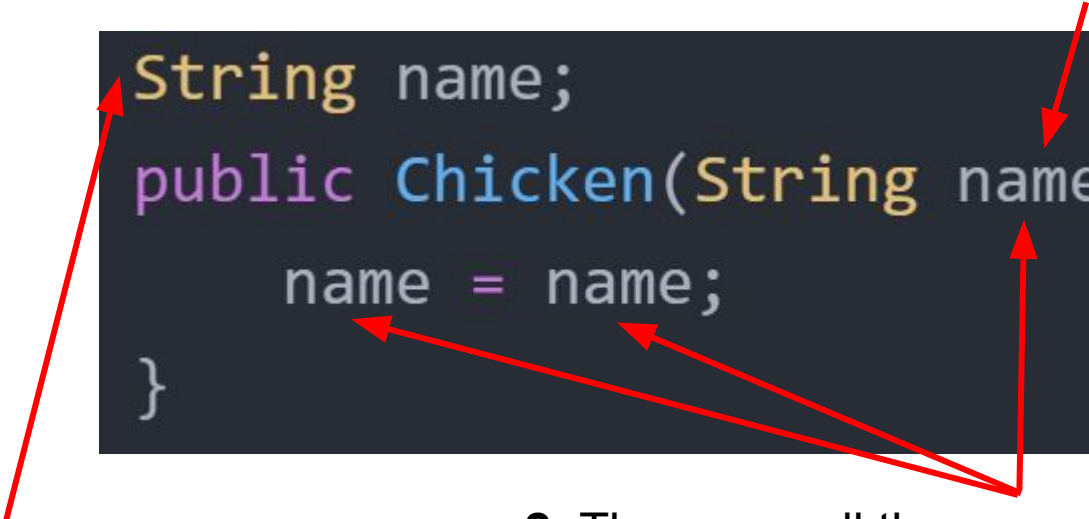
Let's explain what this does.

```
public class Chicken{  
    String name;  
    public Chicken(String name){  
        name = name;  
    }  
}
```

This Example

1. Let's say the value here is "Cluck Norris"

```
String name;  
public Chicken(String name){  
    name = name;  
}
```



3. This variable name is never used here.

2. These are all the same variable being used.

This just says the following:

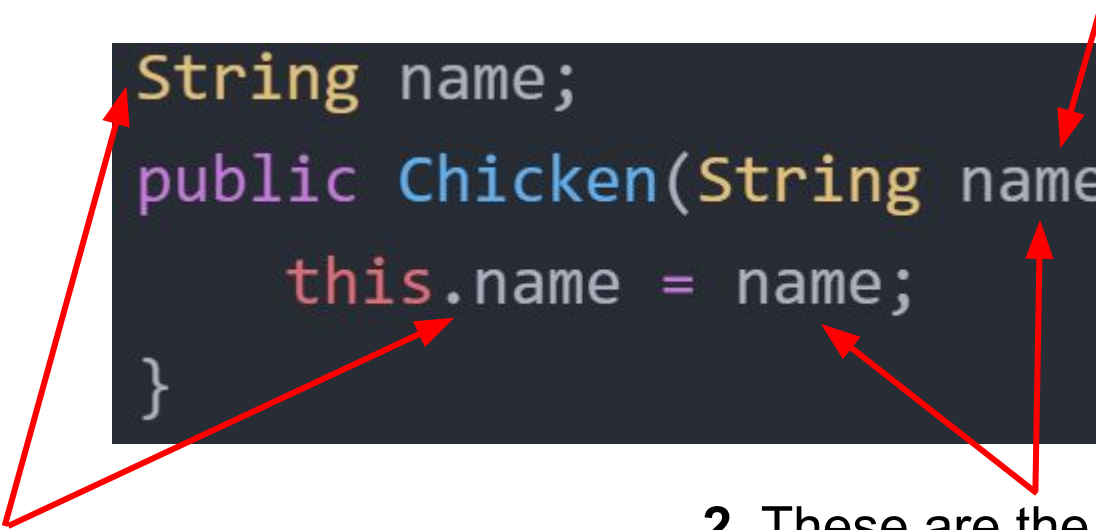
"Cluck Norris" = "Cluck Norris";

Not right. We're not assigning "Cluck Norris"

This Example: The correct way

1. Let's say the value here is "Cluck Norris"

```
String name;  
public Chicken(String name){  
    this.name = name;  
}
```



3. These are the same.

this refers to the name of
THIS current object

2. These are the same object

Now we're saying the following:
this.name = "Cluck Norris"

This as a Mutator Method

This can be used in methods as well.

Just remember which **Object** is being called when using this.

```
public void setName(String name){  
    this.name = name;  
}
```


Lab:

1. Repeat lab 41
2. In your Dwarf class, use this.
3. In your Dwarf class, implement the following using this
 - a. **public Dwarf(String name, int age)**
 - b. **public boolean isSameName(String name)**
4. In main
 - a. Create 100 Dwarves with random names/ages
 - b. Check the 1st Dwarf's name against all other dwarves
 - c. Print how many duplicates and what the name was