

Constructors

```
public class Incrementor {  
    public Incrementor(int startValue) {  
        counter = startValue;  
    }  
  
    public Incrementor() {  
        counter = 1;  
    }  
    ...  
}
```

- **Name of class is used as constructor name**
- **Constructor does not specify return type**
- **Responsible for initializing object**
- **It is called when object is created (new called)**

Implementing Constructor

```
/* Set start value for Incrementor counter */  
public Incrementor(int startValue) {  
    counter = startValue;  
}
```

Implementing Constructor

```
/* Set start value for Incrementor counter */  
public Incrementor(int counter) {  
    counter = counter;  
}
```

Um, there's a problem here...

**Parameter counter is just getting
assigned to itself!**

Implementing Constructor

```
/* Set start value for Incrementor counter */  
public Incrementor(int counter) {  
    this.counter = counter;  
}
```

- **this** refers to *receiver object*
- Automatically available to methods of a class

Implementing Constructor

```
/* Set start value for Incrementor counter */  
public Incrementor(int startValue) {  
    counter = startValue;  
}
```

- **Just give parameters distinct names from member variables**
- **Preferred route (less thinking...)**