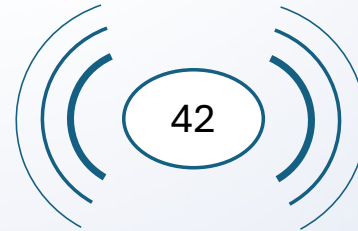


Writable Signals



- Creating a signal

```
readonly firstSignal = signal(42);
```

- Reading the value

```
let val = this.firstSignal();
```

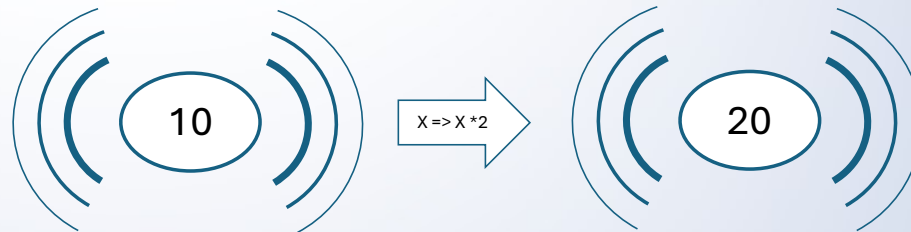
- Binding to the value

```
<h1>  
  First Signal: {{firstSignal()}}  
</h1>
```

- Modifying the value

```
this.firstSignal.set(10);  
this.firstSignal.update(value => value + 1);
```

Computed Signals



- Creating a computed signal

```
readonly derived = computed(() => firstSignal() * 2);
```

- Reading the value

```
let val = this.derived(); // same as writeable
```

- Binding to the value

```
<h1>  
  Derived Signal: {{derived()}} // same as writeable  
</h1>
```

- ~~Modifying the value~~

Computed signals

- It's ok to

- Use more than one signal
- Use writable or computed signals
- Use constants and immutable non-signal data



```
computed(() => x() * y())
```



```
computed(() => x() * derived())
```



```
computed(() => x() * Math.PI)
```

- But don't

- Use asynchronous code
- Use changeable data that is not signal
- Cause side effects
- Modify or create other signals



```
computed(async () => x() * await calc())
```



```
computed(() => x() * Date.now())
```



```
computed(() => x() * j++)
```



```
computed(() => {  
  x.update(v => v + 1);  
  return x() * 10;  
})
```