

# Displaying Data with Pipes

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# Agenda

**Built-In Pipes**

**Custom Pipes**

**Filtering Data**

**Sorting Data**



# Pipes vs Filters

## A1 Filters

Formatting

Sorting

Filtering

## Pipes

Formatting

Sorting

Filtering



# Filtering & Sorting Data - Overview

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# Primitive Identity

```
var a = 3;
```

```
var b = 3;
```

```
a === b TRUE
```

```
var c = a;
```

```
a === c TRUE
```

```
a = 4;
```

```
a === c FALSE
```

a 3

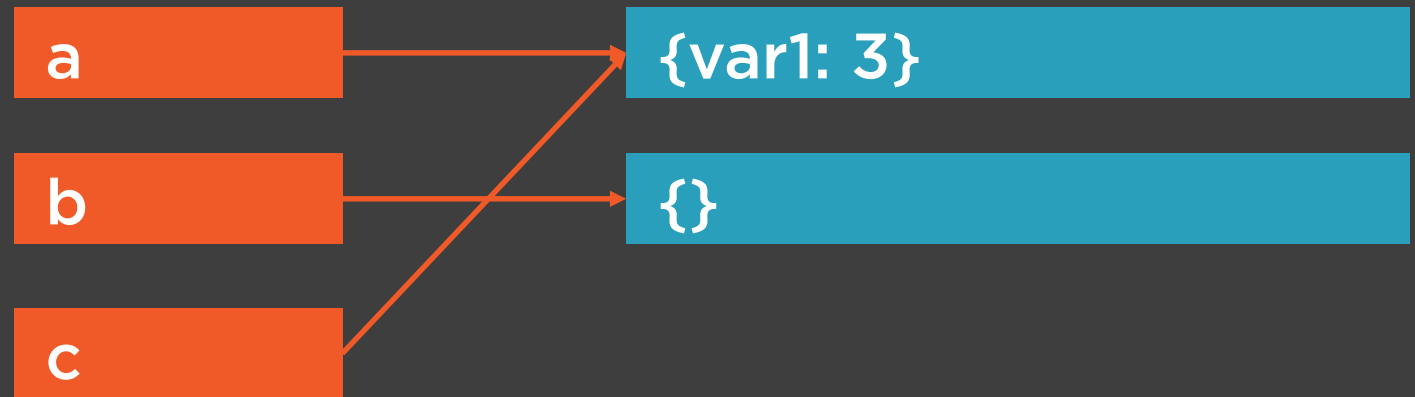
b 3

c 3



# Object Identity

```
var a = {};  
var b = {};  
a === b FALSE  
var c = a;  
a === c TRUE  
a.var1 = 3;  
a === c TRUE
```



# Object Identity

```
var a = {};
```

```
var b = {};
```

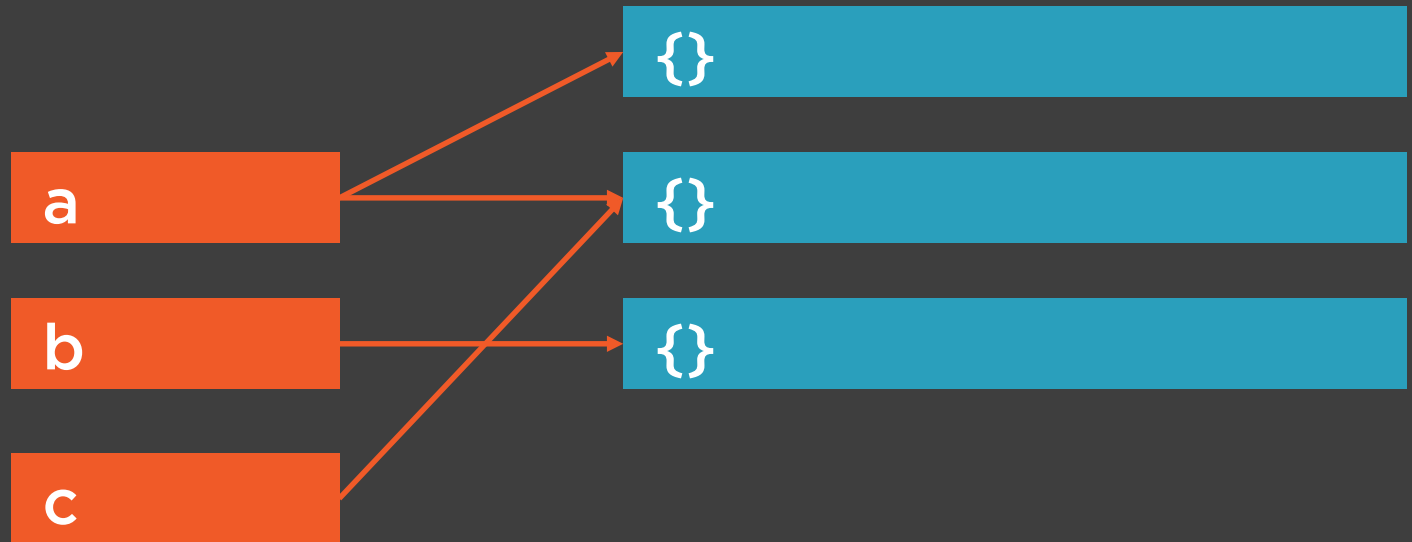
```
a === b FALSE
```

```
var c = a;
```

```
a === c TRUE
```

```
a = {};
```

```
a === c FALSE
```



# Mutability

```
[  
  { name: 'Dave' },  
  { name: 'John' },  
]
```





# Mutability

```
[  
  { name: 'Dave' },  
]
```



# Mutability

```
[  
  { name: 'Dave' },  
  { name: 'Dan' },  
]
```



# Identity, Mutability & Pipes

```
[  
  { name: 'John' },  
  { name: 'Dave' },  
]
```



```
[  
  { name: 'Dave' },  
  { name: 'John' },  
]
```



# Identity, Mutability & Pipes

```
[  
  { name: 'John' },  
  { name: 'Ra1ph' },  
]
```



```
[  
  { name: 'Dave' },  
  { name: 'John' },  
]
```



# Another Option

## Impure Pipes

Runs on EVERY change  
detection cycle

Same as Angular 1 Filters



# Recommended Filtering & Sorting

## Do It Yourself

Only Updated When Source  
Data Changes

More efficient



# Summary



**Pipes**  
**Sorting & Filtering**

