

Collections



each
map
reduce
reduceRight
find
filter
where
findWhere
reject
every
some
contains
invoke

pluck
max
min
sortBy
groupBy
countBy
shuffle
toArray
size

Memoization



Memoization is derived from the Latin word memorandum (to be remembered), and thus carries the meaning of turning [the results of] a function into something to be remembered.



Source: <http://en.wikipedia.org/wiki/Memoization>

Memoization

First execution



Memoization

Second execution



```
var
```

```
  x = 1,
```

```
  y = 'true';
```

```
console.log(x == y);
```



false

```
var
```

```
  x = 1,  
  y = true;
```

```
console.log(x == y);
```



Type coercion can produce unpredictable results.

```
var
```

```
  x = 1,
```

```
  y = true;
```

```
console.log(x === y);
```



false

Fisher-Yates Shuffle Algorithm

aka 'Knuth' shuffle



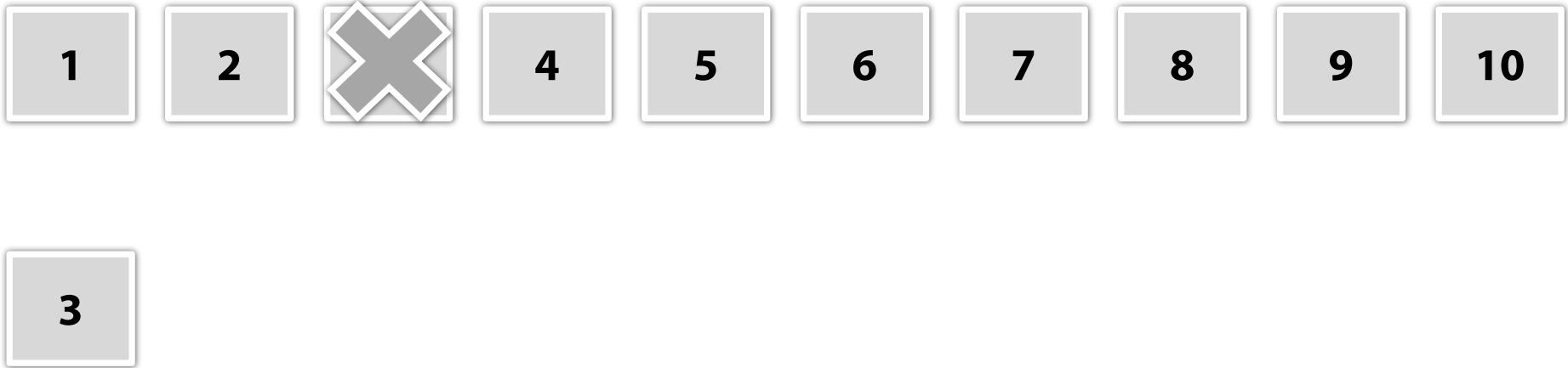
Randomizes a known set of values without repetition.



Source: http://en.wikipedia.org/wiki/Fisher-Yates_shuffle

Fisher-Yates Shuffle Algorithm

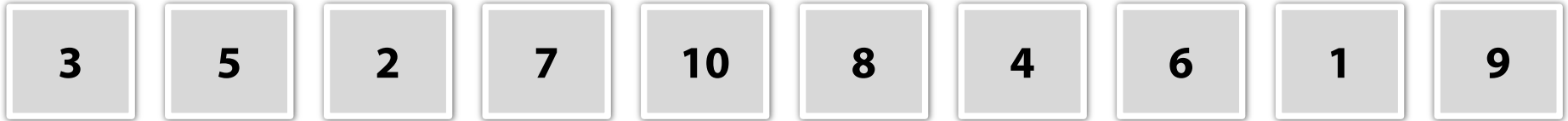
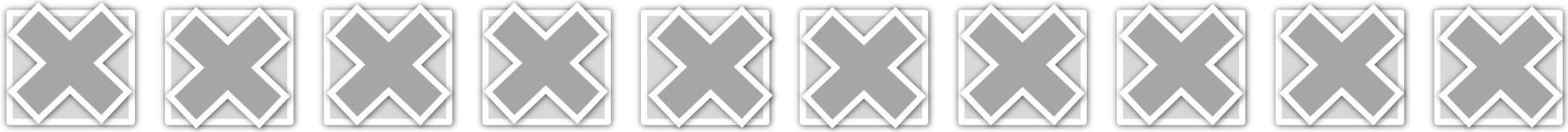
aka 'Knuth' shuffle



Source: http://en.wikipedia.org/wiki/Fisher-Yates_shuffle

Fisher-Yates Shuffle Algorithm

aka 'Knuth' shuffle



Source: http://en.wikipedia.org/wiki/Fisher-Yates_shuffle

Function arguments

arguments !== []



The `arguments` object does not have any of the same properties of an `Array`, except for `length`.

Summary



each
map
reduce
reduceRight
find
filter
where
findWh
reject
every
some
contain
invoke

pluck
max
min
sortBy
groupBy



Next Up....

Arrays