What is the difference between uniq and uniq! in Ruby

Lets see uniq in irb:

```
2.0.0-p648 :001 > a=[1,2,2,3,3,4]
 => [1, 2, 2, 3, 3, 4]
2.0.0-p648 :002 > a.uniq
 => [1, 2, 3, 4]
2.0.0-p648 :003 > a
 => [1, 2, 2, 3, 3, 4]
```

Now lets see uniq! in irb:

```
2.0.0-p648 :001 > a=[1,2,2,3,3,4]
=> [1, 2, 2, 3, 3, 4]
2.0.0-p648 :002 > a.uniq!
=> [1, 2, 3, 4]
2.0.0-p648 :003 > a
=> [1, 2, 3, 4]
```

But now what happens if the array is already uniq?

```
2.0.0-p648 :001 > a=[1,2,3]
=> [1, 2, 3]
2.0.0-p648 :002 > a.uniq
=> [1, 2, 3]
2.0.0-p648 :003 > a.uniq!
=> nil
2.0.0-p648 :004 >
```

The uniq method returns a new array by removing duplicate values in self. If no duplicates are found, the same array value is returned.

The uniq! method removes duplicate elements from self and returns nil if no changes are made.