

## Calculate percentage increase in x

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```
rm(list = ls())
y = 2001:2008
x = c(28, 28, 32.5, 39.5, 45.9, 57.8, 58.1, 62.5)
df = data.frame(y, x)
df
```

```
##      y      x
## 1 2001 28.0
## 2 2002 28.0
## 3 2003 32.5
## 4 2004 39.5
## 5 2005 45.9
## 6 2006 57.8
## 7 2007 58.1
## 8 2008 62.5
```

```
pinc = function(x){
  pic = c()
  for (i in 2:length(x)) {
    pic[i] = x[i]/x[i-1] - 1
  }
  return(100*pic)
}

cbind(df, per_inc = round(pinc(x),4))
```

```
##      y      x per_inc
## 1 2001 28.0      NA
## 2 2002 28.0  0.0000
## 3 2003 32.5 16.0714
## 4 2004 39.5 21.5385
## 5 2005 45.9 16.2025
## 6 2006 57.8 25.9259
## 7 2007 58.1  0.5190
## 8 2008 62.5  7.5731
```