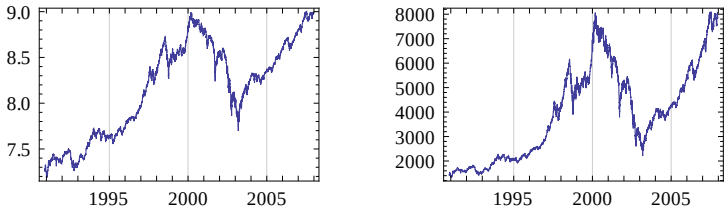
```
Exit[]
```

```
g = FinancialData["DAX", "1.1.1900"];
```

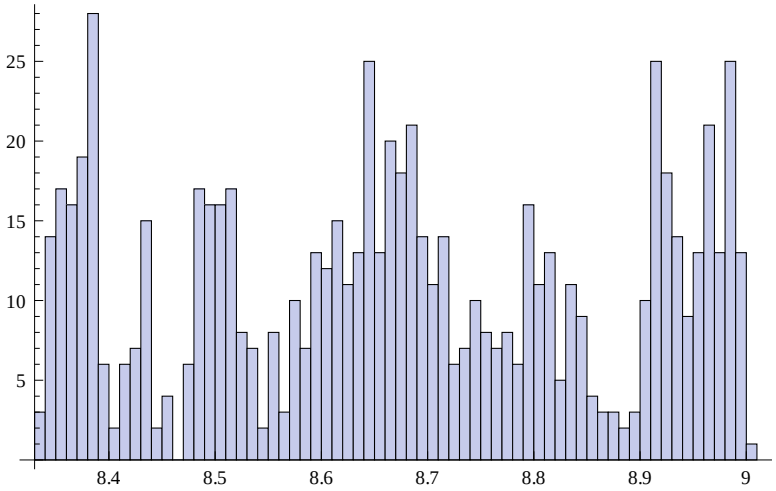
```
g[[1]]
```

```
{{1990, 11, 26}, 1443.2}
```

```
GraphicsRow[{DateListPlot[{{#1, Log[#2]} & @@@ g}, Joined → True],
  DateListPlot[{g}, Joined → True]}]
```

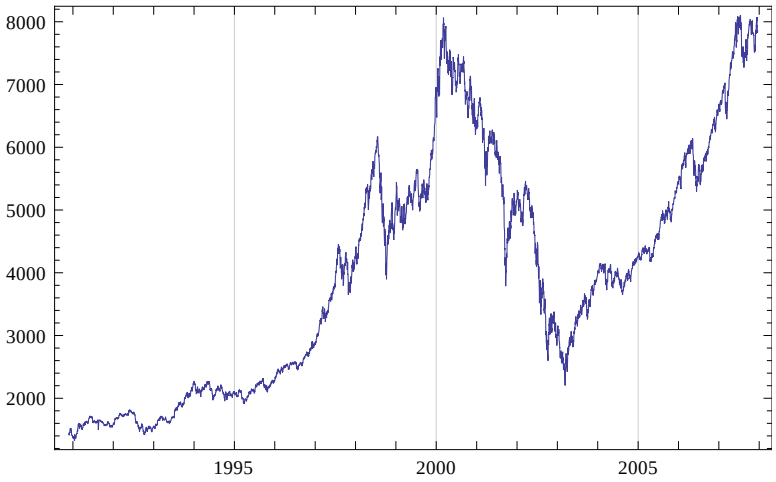



```
Histogram[Log[#2] & @@@ g, HistogramCategories → 50]
```

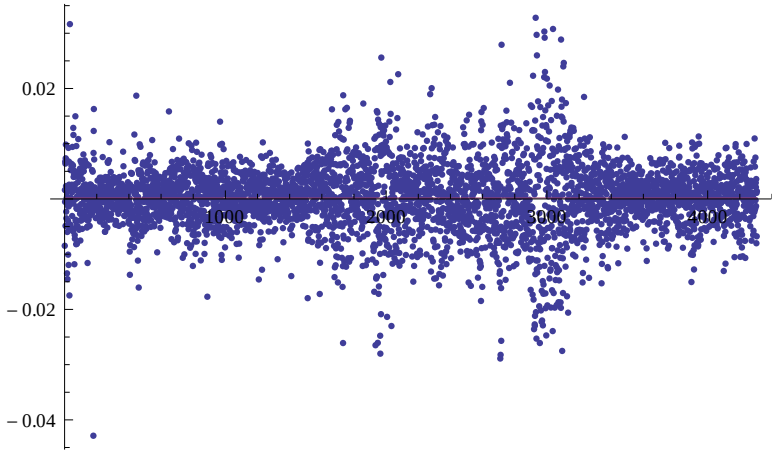



```
d = Differences[Log[10, #2] & @@@ g];
```

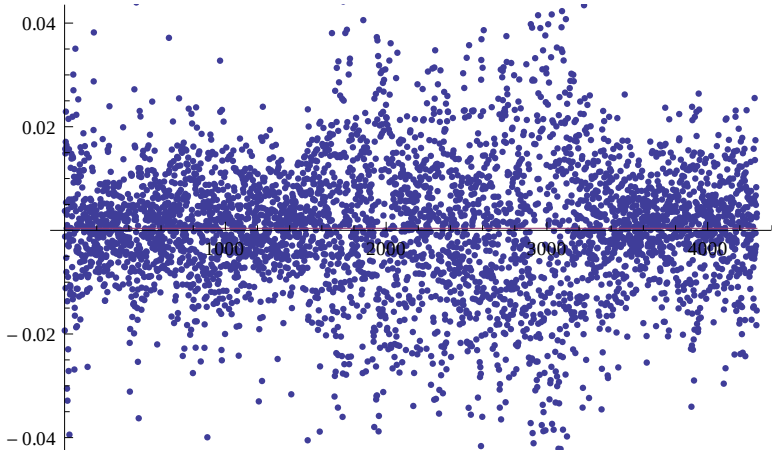
```
DateListPlot[{g}, Joined → True]
```




```
Show[ListPlot[d, PlotRange → All], Plot[{, Mean[d]}, {x, 0, Length[d]}]]
```




```
Show[ListPlot[10^d – 1], Plot[{, 10^Mean[d] – 1}, {x, 0, Length[d]}]]
```



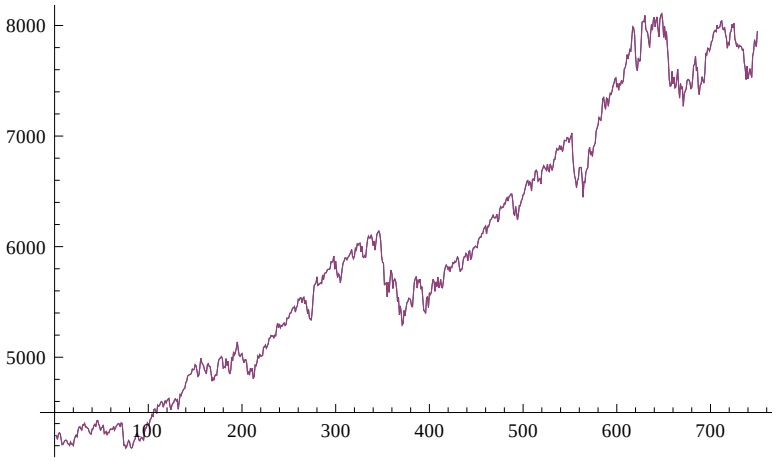
```
Mean[d]
Log[10, g[[Length[g], 2]] / g[[1, 2]]] / Length[d]
```

```
0.000357102
```

```
0.000357102
```

```
U = {g[[1, 2]]};
For[i = 0, i < Length[d], i++,
 AppendTo[U, U[[i + 1]] 10^(d[[i + 1]])];
]
```

```
ListPlot[{U, #2 & @@@ g}, Joined -> True]
```

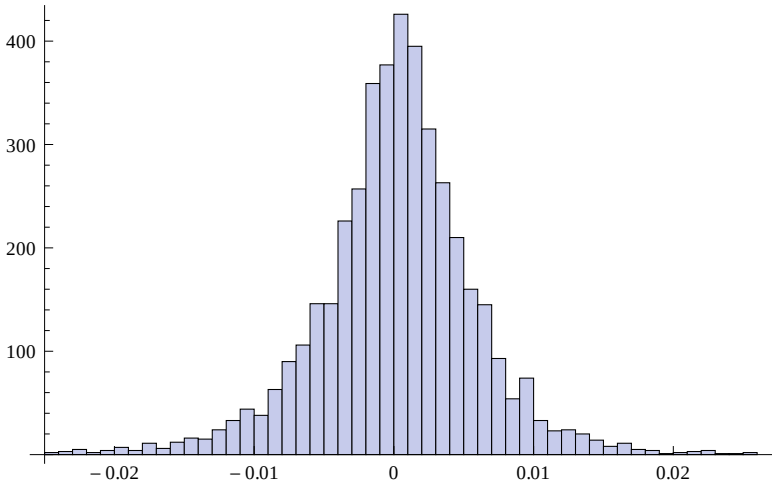



```
<< Histograms`
```

HistogramCategories::shdw :
Symbol HistogramCategories appears in multiple contexts {Histograms`, Global`}; definitions in context Histograms` may shadow or be shadowed by other definitions.

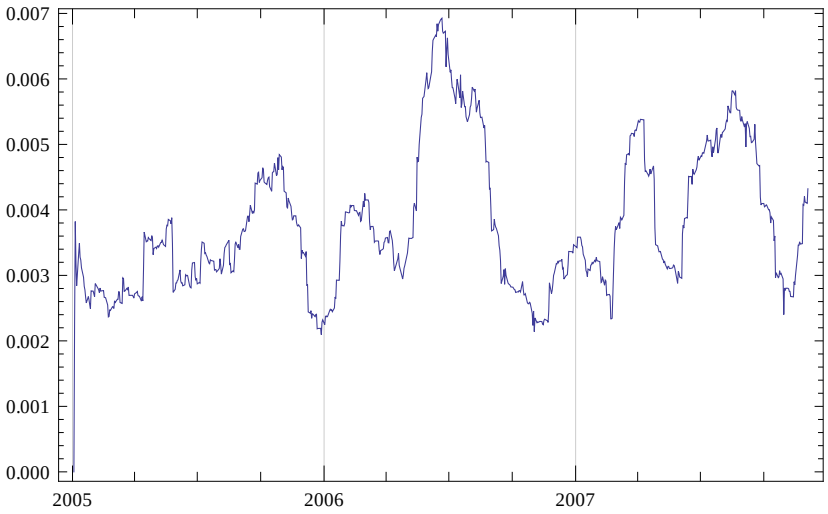
Histogram::shdw :
Symbol Histogram appears in multiple contexts {Histograms`, Global`}; definitions in context Histograms` may shadow or be shadowed by other definitions.

```
Histogram[d, HistogramCategories → 80; HistogramRange → {-.025, .025}]
```

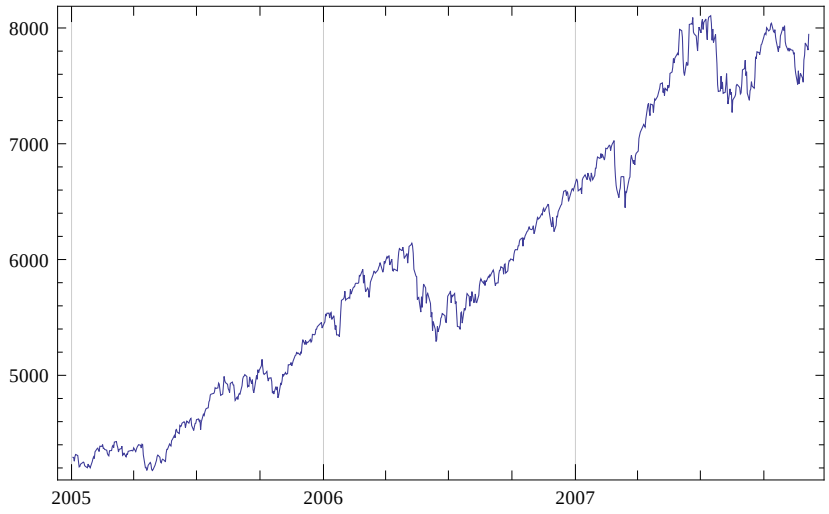



```
sd[i_, n_] := If[i == 1, 0, StandardDeviation[d[[Max[i - n + 1, 1] ;; i]]]]

DateListPlot[Table[{g[[i, 1]], sd[i, 30] }, {i, 1, Length[d]}], Joined -> True]
```



```
DateListPlot[{g}, Joined → True]
```




```
vd = FinancialData["V1X", "1.1.2005"];
```

FinancialData::notent : V1X is not a known entity in FinancialData.

```
g
```

```
{{{2005, 2, 24}, 0.22}, {{2005, 6, 23}, 0.22}, {{2005, 9, 22}, 0.22}, {{2005, 12, 22}, 0.25},
 {{2006, 2, 23}, 0.25}, {{2006, 6, 22}, 0.25}, {{2006, 9, 21}, 0.25}, {{2006, 12, 21}, 0.28},
 {{2007, 2, 22}, 0.28}, {{2007, 6, 21}, 0.28}, {{2007, 9, 20}, 0.28}}
```