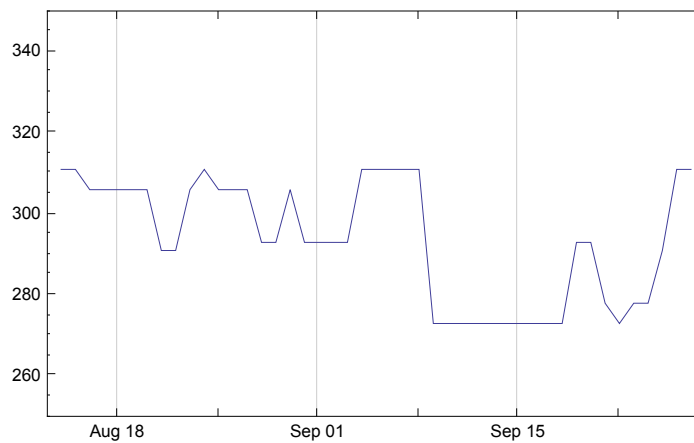


```
(*Test to see if window matters (it does not) *)
```

```
window = 45; window1 = window + 1;
```

```
DateListPlot[Reverse[winning], {2008, 8, 14},  
  Joined → True, PlotRange → {Automatic, {250, 350}}]
```



```
timeleft = DateDifference[DateList[][[1 ;; 3]], {2008, 11, 4}]
```

38

```

Count[sims, n_ /; n > 268] / Length[sims] // N
0.937

{Mean[sims], StandardDeviation[sims]} // N
{307.406, 28.1104}

counts = Table[Count[sims, n_ /; n == i], {i, 538}];
counts[[269]] / 5000.
0.0256

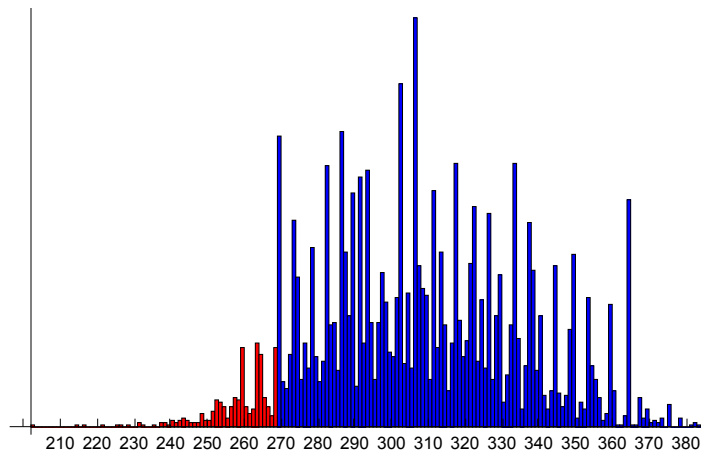
mode = Position[counts, Max[counts]][[1, 1]]
306

chanced = Table[closed[[i, -window ;; -1]] /
  (closed[[i, -window ;; -1]] + closer[[i, -window ;; -1]]), {i, 51}];
today = Total[Table[If[chanced[[i, -1]] > .5, ev[[2 ;; -2, 2]][[i]], 0], {i, 51}]]
311

counts[[today]] == mode
(*Everything breaking exactly like today is the mode of the distribution*)
False

```

```
Show[hr, hd, PlotRange -> {{200, 380}, {0, Max[counts]}}]
```



```
{Table[i, {i, 250, 310}],
  Table[Count[sims, n_ /; n == i], {i, 250, 310}]} // MatrixForm // N
{ 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265
  3.    7.   12.  11.   9.   4.   9.   13.  12.  35.   9.   6.   8.   37.  32.  13

Table[Count[sims, n_ /; n > i] / Length[sims], {i, 229, 339, 10}] // N
{0.9986, 0.9968, 0.9908, 0.9678, 0.9114,
 0.8274, 0.6996, 0.5902, 0.4458, 0.34, 0.2302, 0.1396}

Table[Count[sims, n_ /; n - 10 < i < n] / Length[sims], {i, 229, 339, 10}] // N
{0.0016, 0.0054, 0.016, 0.0308, 0.0778,
 0.1072, 0.1028, 0.1328, 0.0996, 0.0964, 0.0856, 0.0478}

chanced = Table[closed[[i, -window ;; -1]] /
  (closed[[i, -window ;; -1]] + closer[[i, -window ;; -1]]), {i, 51}];

Extract[chanced[[All, -1]], Position[chanced[[All, -1]], n_ /; .3 < n < .7]] // N
{0.679321, 0.44, 0.39, 0.502, 0.54, 0.435, 0.501, 0.55}

Extract[detailIDdr[[1]], Position[chanced[[All, -1]], n_ /; .3 < n < .7]]
{CO, FL, IN, NV, NH, NC, OH, VA}

swingev = Extract[ev[[2 ;; -2, 2]], Position[chanced[[All, -1]], n_ /; .3 < n < .7]]
{9, 27, 11, 5, 4, 15, 20, 13}

Total[swingev]
104

swingevD =
  Total[Extract[ev[[2 ;; -2, 2]], Position[chanced[[All, -1]], n_ /; .5 < n < .7]]]
51
```

```

swingevD / Total[swingev] // N
0.490385

detailIDdr[[1, {36, 39}]]
chanced[[{36, 39}, -1]] // N
ev[[2 ;; -2, 2]][[{36, 39}]]
{OH, PA}

{0.501, 0.72}

{20, 21}

Correlation[returnsc[[36]], returnsc[[39]]]
0.429625

ohpa = Table[Switch[Total[simsdet[[i, {36, 39}]]],
  0, "Neither", 20, "OH", 21, "PA", 41, "Both"], {i, 5000}];

Count[ohpa, "PA"] / 50.
100 chanced[[39, -1]] (1 - chanced[[36, -1]])
48.04
35.928

Count[ohpa, "OH"] / 50.
100 chanced[[36, -1]] (1 - chanced[[39, -1]])
0.24
14.028

Count[ohpa, "Both"] / 50.
100 chanced[[39, -1]] chanced[[36, -1]]
50.
36.072

Count[ohpa, "Neither"] / 50.
100 (1 - chanced[[39, -1]]) (1 - chanced[[36, -1]])
1.72
13.972

(*Very little chance of winning Ohio but not Pennsylvania. Probabilities
very different from if OH & PA were independent*)

chanced = Table[closed[[i, -window ;; -1]] /
  (closed[[i, -window ;; -1]] + closer[[i, -window ;; -1]]), {i, 51}];

```

```

sbys = {Table[Count[simsdet[[All, i]], n_ /; n > 0] / Length[simsdet], {i, 51}] // N,
  detailIDdr[[1]], chanced[[All, -1]] // N} // MatrixForm
( 0.0054 0.0492 0. 0.0008 1. 0.9638 0.9972 1. 0.9868 0.2908 0.008 1.
  AL      AK      AZ      AR      CA      CO      CT      DC      DE      FL      GA      HI
  0.06    0.06    0.07    0.08    0.931 0.679321 0.91 0.97 0.93 0.44 0.099 0.977

Table[Extract[sbys[[1, i]], Position[sbys[[1, 1]], n_ /; .05 < n < .95]], {i, 3}] //
MatrixForm
( 0.2908 0.3146 0.8526 0.502 0.6678 0.3962 0.5024 0.6664 0.9474 )
  FL      IN      MN      NV      NH      NC      OH      VA      WI
  0.44    0.39    0.732 0.502 0.54 0.435 0.501 0.55 0.728 )

```