Less likely to get half, more likely to get near half

"Near" in terms of percentages, not absolute differences.

https://www.johndcook.com/blog/2016/09/12/less-likely-to-get-half-more-likely-to-get-near-half/

In[ ]:=

> **Nassim Nicholas Taleb** ✓
> @nntaleb
>
> Simply, the average converges to ½, with a variance prop to 1/n^2. But the exact probability of getting ½ decreases, as the PDF of the binomial dist[n,p],p=½, n even decreases with n.

Out[ ]=

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In[ ]:=

```
DiscretePlot[2^-n Binomial[n, 1 / 2], {n, 2, 20, 2}, PlotRange → All, PlotStyle → Red]
```

Out[ ]=