

HBC Meeting Notes

- To print what iteration we are on in code if running a long code:

```
If mod(n,100,000)==0
    fprintf('flip: %d \n',n) %gives any variable to double precision
End
```

fprintf (%.3f) would give you a number rounded to 3 decimals

Instead of $ct = ct + 1$, if you want to graph your info or find averages, we can do:

```
ctVec = zeros(2000,1)
For j=1:Ngames
    nF = *play the game*
    ctVec(nF) = ctVec(nF)+1
end
```

expVal = multiply nF by each of its values and divide by Ngames

- Monte Carlo

If you have three points randomly on a unit circle, what is the probability that the origin is inside the circle

You can extend it to any polygon afterwards

Inverse Power iteration

- Pro: you can get any eigenvalue, depends on the guess (not just dominant)
- Limitation: if guess is bad