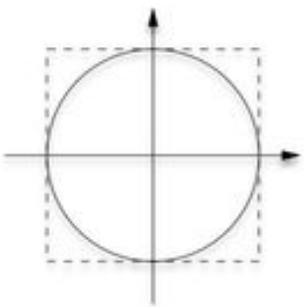
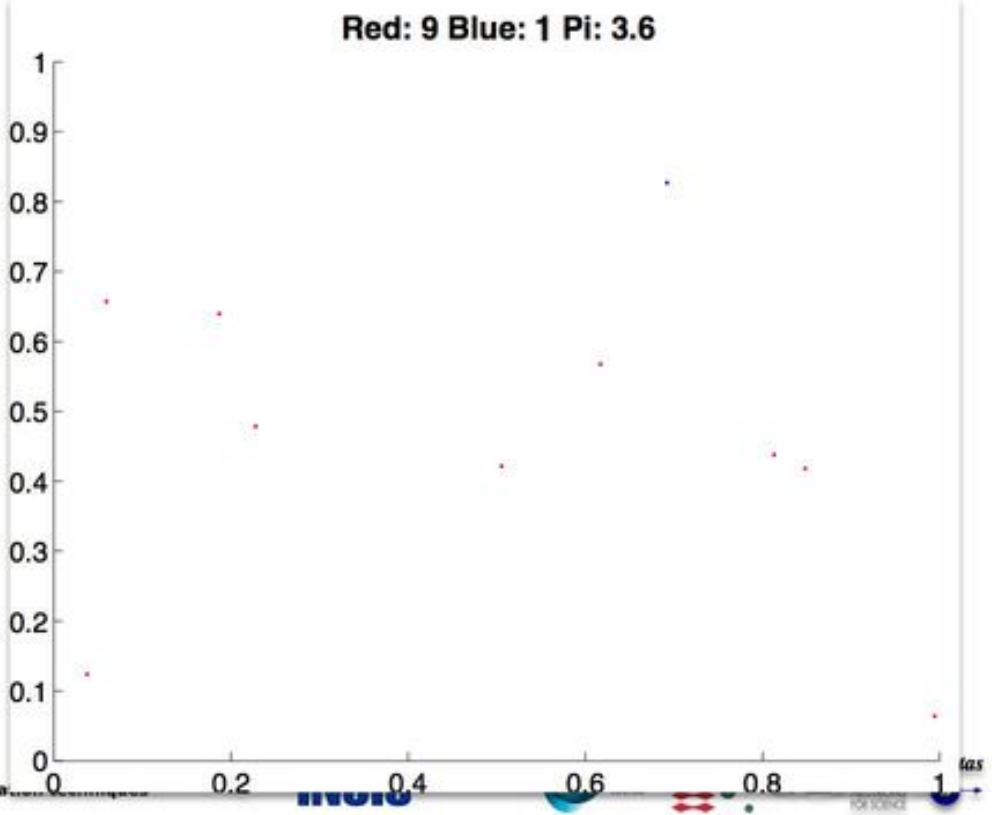
Monte Carlo techniques

- Estimating Pi:

$$\pi = \frac{A_{circ}}{A_{sqr}} = \frac{\pi r^2}{(2r)^2}$$

$$\pi \approx 4\frac{9}{9+1} = 3.6$$