## Probability

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*	Types of Random Variable (RV.  1) Discrete + > Bernov III R.V. > Binominial R.V.  2) Continuous > Vrugorom R.V. > normal RV.				
	1) Discrete + Bernov lli R.V. + Binominial R.V.				
	2) Continuous + Unidanim R.V. > normal R.V.				
*	Bermoulli R.V.: - defines suces or failure of R.V. (0,1)				
	R.E. > Flippin -a coin; 35 > EH, T3				
	R.v. > x > getting a head > 1.0				
	X: SS + {0,13; +> P(x=0)=P({T})= /2; P(x=1)=P({H})= /2				
	R. Eg Robling a dice : 55 = 51.2.3.4.5.63				
	RV. > Y = getting a 6 is is success				
	9:55 3 20,13				
	P(24=0) = P({1,2.3.4.5}) = 5/6	wer see			
	P(Y=1) = P(463) = 1/6	P(x=0) = 9			
	Y .	P(x=1)=1-2			
P	P(Y) 51/4	ic. Probability			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	duranibulian			
	O X O Y O X	farmula			
*	Binomal R.v. : its a collection of Bernoulli R.v.				
	RE. > Flipping 4 coent				
	SS -> S HHHH, HHHT, HHTH, HTHH TITT 3 (16)				
	ev. X > count no of head				
	X:55 + 9 0, 1, 2, 4 3 > n = 4				
	$P(X=0) = P(3\pi TTT3) = \frac{1}{6}$				
P	P(x=1) = P(\(\frac{1}{2}\)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
- 6	$P(X=1) = \begin{pmatrix} 1 \\ 2 \end{pmatrix}^{u-1} \rightarrow \begin{pmatrix}$				
	(2) (3)				
	$P(x=i) = -x \cdot (p)^{i} \times (1-p)^{n-i}$				
	90,				
1	$p(x=2) = \frac{1}{2} \times (1-\frac{1}{2}) = \frac{1}{2} \times \frac{1}{2}$	x 1 x 1 = 6 = 3			