OPIC: 6,85	7 DATE: 3/9/15
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Admina.	Pset #2 due today  Pset #3 goin, out later today  Projects
Today:	Stream ciphers  • Definitions  • Spritz (& RC4)
Reading:	chacha  Ketz/Lindell \$3.3.1
Projectidas:	Evaluate security at Whisper Systems product (s) (which are open source)

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	Recall OTP msg  pad -> +  ciphcrtext
	How to generate a good pseudo-random pad  "key"  "cred"  [o]  [o]  [o]  [o]  [o]  [o]  [o]  [o
6 is secure =>	Adv can not distinguish (im PPT) between  string x drawn from {0,1} at random
aka G is a pseudo-random generator	e result at 5 (- 30,13°; output (5(5))  with probability better than 1/2 + negl(n)

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e.g. AES in CTR mode, checha	Stream cipher is a PRCs output. API may be distinguish long- per-message key (non may be counter-b  [counter + +1]  K-> G-  or state-based  state next-	with variable /arbitran length  ifferent:  K  term key from
	Output block	if next-state-fr  is one-way then that of state won't enable reading post traffic

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0,1,2,	- 5	: + = d; b ^= c; b	tein  lee RCY in openSSL  Constant  Key  Inonce (index)
instruction			<<<=7

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double-round:	
QR (0, 4, 8, 12) (1, 5, 9, 13) (2, 6, 10, 14) (3, 7, 11, 15)	
QR (0,5,10,15)  (1,6,11,12) \ diagonal (2,7,8,13)  (3,4,9,14)	
ChuCha20 = 10 double-rounds	