

# CryptLINKgraphy

David Chaum



# Scantegrity II

## Mark

that can be provided thru

**3. PROVISIONAL VOTE**  
When a voter at a polling place can verify neither the processing nor whether the ballot is included; or

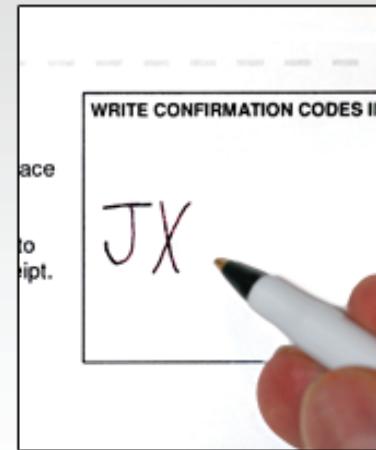
*choose one:*   JX

**4. MAIL-IN**  
When a voter can verify both the processing and check off the ballot.

*choose one:*



## Record



## Check



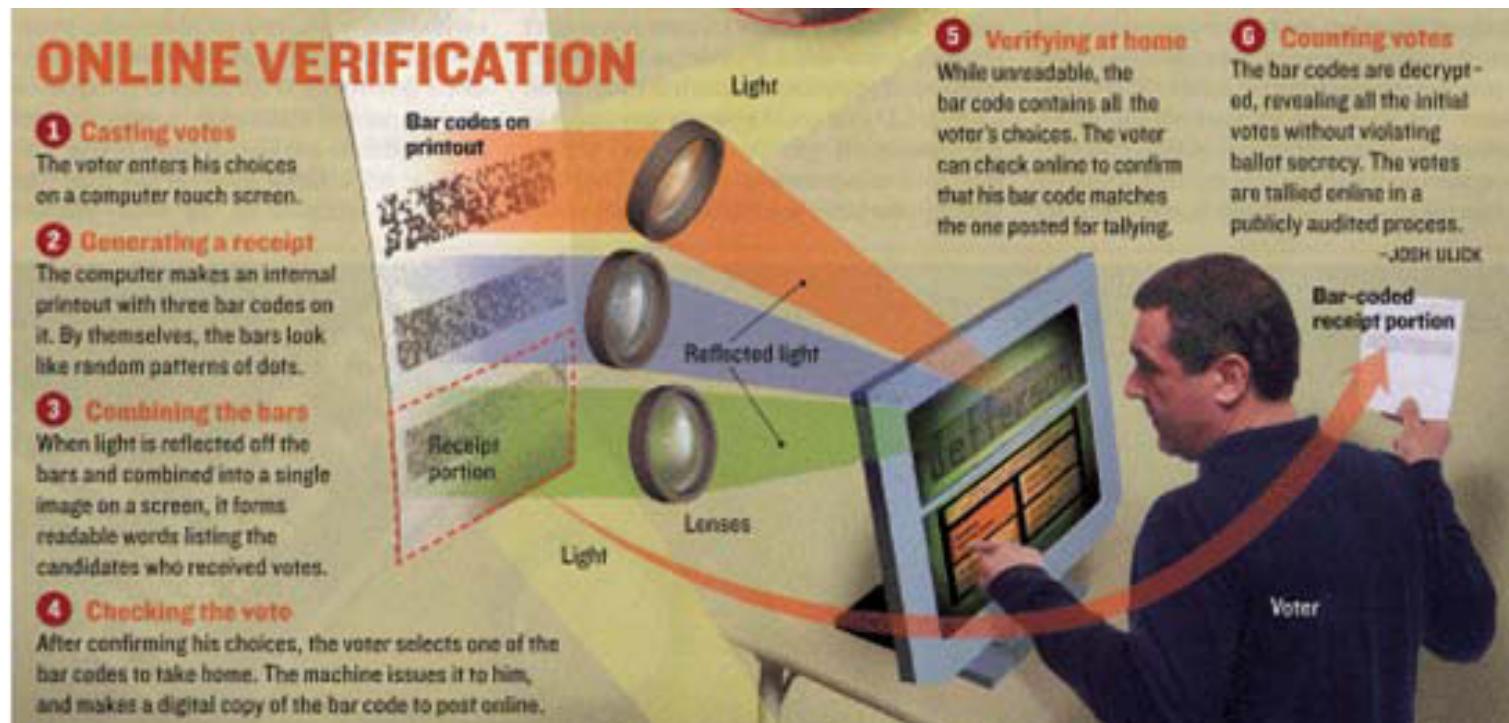
2009  
2011

David Chaum  
Richard Carback  
Jeremy Clark

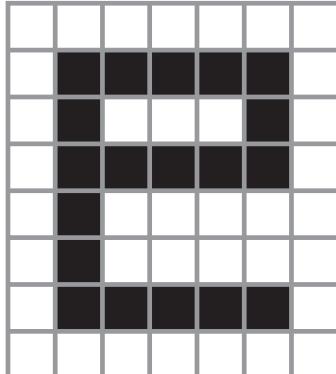
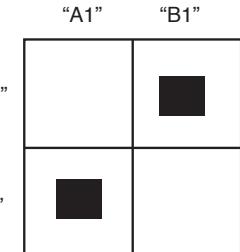
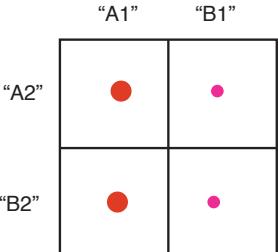
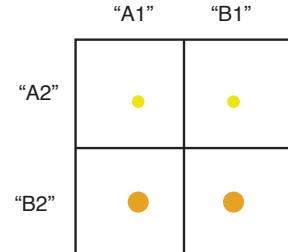
Aleksander Essex  
Stefan Popoveniuc  
Ronald L. Rivest

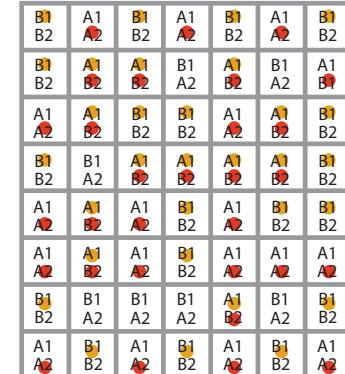
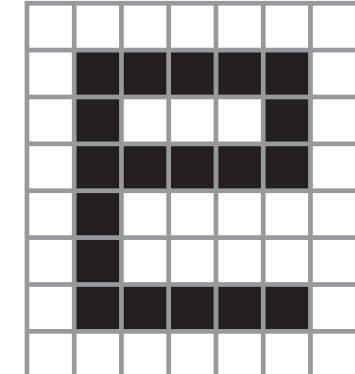
Poorvi Vora  
Emily Shen  
Alan T. Sherman

# Additive System



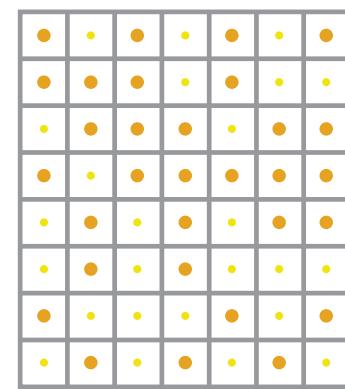
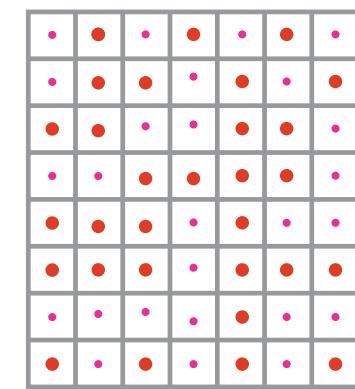
Newsweek, March 29, 2004 print edition “The Future of Digital Voting” by Steven Levy

		Layer	
		"First"	"Second"
sign	"A"	+	+
	"B"	-	-
sign	"A"	"A1" ●	"A2" ●
	"B"	"B1" ●	"B2" ●
		The four kinds of ink	
			
			
		The way pixels look when printed, one ink per layer— <i>inks with opposite sign when combined turn black.</i>	
			
		Red/violet viewing regime	
			
		Orange/yellow viewing regime	



The way it looks in normal visible light

Full ink symbols and only primary taggants



Red/violet viewing regime

Orange/yellow viewing regime



**Thank You!**