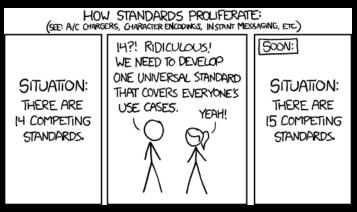


Network traffic is based on standards



https://xkcd.com/927/

In the blink of an eye

"This new paper shows that the meaning of an image can be extracted even when an image is mixed up in a sequence of six or even 12 images presented at 13 milliseconds per image a rate of about 75 frames a second."¹

¹Detecting meaning in RSVP at 13 ms per picture by M. Potter, B. Wyble, C. Hagmann, E. McCourt

Coloring concept

 0x80
 0x7C
 0x00
 0x05
 0x00
 0x1F
 0xE0
 0x2D
 0x78
 0xCD
 0xFF
 ···

 0x80
 0x7C
 0x00
 0x06
 0x00
 0x23
 0xA0
 0x2D
 0x78
 0xCD
 0xFF
 ···

 0x80
 0x7C
 0x00
 0x00
 0x00
 0x23
 0xA0
 0x2D
 0x78
 0xCD
 0xFF
 ···

 0x80
 0x7C
 0x00
 0x07
 0x00
 0x20
 0x70
 0x78
 0xCD
 0xFF
 ···

 0x80
 0x7C
 0x00
 0x07
 0x00
 0x20
 0x2D
 0x78
 0xCD
 0xFF
 ···

 0x80
 0x7C
 0x00
 0x00
 0x00
 0x2B
 0x2D
 0x78
 0xCD
 0xFF
 ···

Varying the number of bits per pixel

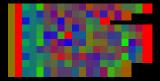


24 Bit/Pixel

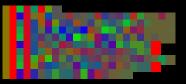


12 Bit/Pixe

Different speech codecs



Speex with 8 kHz sampling rate.



Speex with 16 kHz sampling rate.

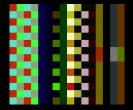


G.711 PCMA



Example: Modified ICMP packets

No.	Time	Source	Destination	Protocol	Length	Info						
												(reply in 2)
2	0.809438	8.8.8.8	192.168.178.45	ICMP	47	Echo	(ping)	reply	id=0x0000,	seq=0/0,	ttl=59	(request in 1)
3	0.035982	192.168.178.45	8.8.8.8	ICMP				request				(reply in 4)
- 4	0.843758	8.8.8.8	192.168.178.45	ICMP				reply				(request in 3)
		192.168.178.45		ICMP				request				(reply in 6)
6	0.075923	8.8.8.8	192.168.178.45	ICMP	47	Echo	(ping)	reply	id=0x0000,	seq=0/0,	ttl=59	(request in 5)
7	0.102209	192.168.178.45	8.8.8.8	ICMP				request				(reply in 8)
8	0.110560	8.8.8.8	192.168.178.45	ICMP				reply				(request in 7)
		192.168.178.45		ICMP				request				(reply in 10)
	0.156205		192.168.178.45				(ping)					(request in 9)
11	0.174868	192.168.178.45	8.8.8.8	ICMP				request				(reply in 12)
	0.183393		192.168.178.45	ICMP				reply				(request in 11)
		192.168.178.45		ICMP				request				(reply in 14)
14	0.223012	8.8.8.8	192.168.178.45	ICMP	47	Echo	(ping)	reply	id=0x0000,	seq=0/0,	ttl=59	(request in 13)



Thank you

Thank you for your attention. Questions?

Get the code: go get -u github.com/florianl/goNetViz