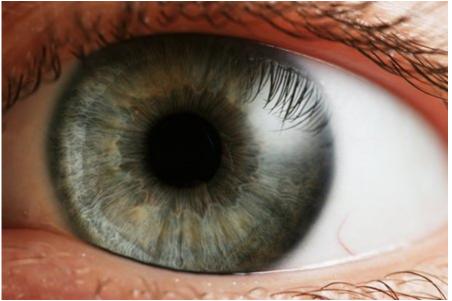
Presentation Skills: Speaking, Graphics

> Philip Wadler Professional Issues October 2014

Part 0

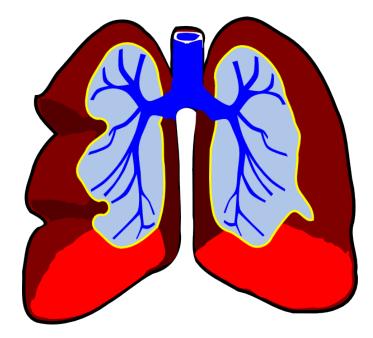
Presentations and speaking

Pictures complement words





Remember to breathe



Leave silent spaces

Hat trick



"Sanity, seriousness, and sense"

"Purveyors of panic, prejudice, and pessimism"

Delivery



Put nervous energy to use Memorize your opening Open with a joke relevant to the talk Humour—lots—specific, not general Avoid sexism!

Organisation



Begin with your conclusion Motivate!

What do you want the presentation to accomplish? Say what you're going to say, say it, say what you said End with your conclusion

Examples



Drive your talk with examples Back up talk with detailed information elsewhere

Timing

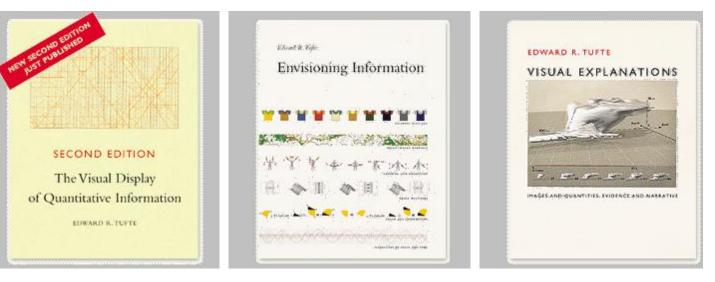


Show up early! Finish early!

Part 1

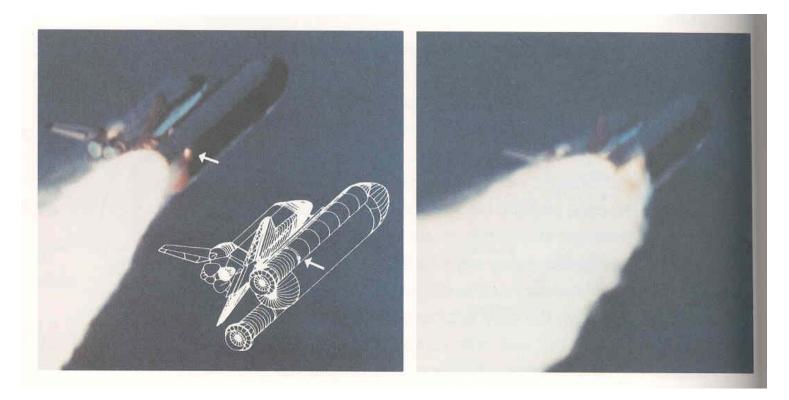
Challenger

Edward Tufte



Challenger

28 January 1986



History of O-ring damage

Thiokol engineers to Nasa, 27 January 1986

4		Cross Sectional View			Top View		
APT APT	SRM No.	Erosion Depth (in.)	Perimeter Affected _(deg)	Nominal Dia. (in.)	Length Of Max Erosion (in.)	Total Heat Affected Length (in.)	Clocking Location (deg)
61A LH Center Field**	22A 22A	None NONE	None	8:288	None NONE	None	36°66 338°18°
51C LH Forward Field**	15A	0.010	154.0	0.280	4.25	5.25	163
457 SIC RH Center Field (prim)*** 51C RH Center Field (sec)***	15B 15B	0.038 None	130.0 45.0	0.280	12.50 None	58.75 29.50	354 354
41D RH Forward Field	13B	0.028	110.0	0.280	3.00	None	275
41C LH Aft Field*	11A	None	None	0.280	None	None	
418 LH Forward Field	10A	0.040	217.0	0.280	3.00	14.50	351
Jo STS-2 RH Aft Field	28	0.053	116.0	0.280			90

*Hot gas path detected in putty. Indication of heat on O-ring, but no damage. **Soot behind primary O-ring.

***Soot behind primary O-ring, heat affected secondary O-ring.

Clocking location of leak check port - 0 deg.

OTHER SRM-15 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY AND NO SOOT NEAR OR BEYOND THE PRIMARY O-RING.

SRM-22 FORWARD FIELD JOINT HAD PUTTY PATH TO PRIMARY O-RING, BUT NO O-RING EROSION AND NO SOOT BLOWBY, OTHER SRM-22 FIELD JOINTS HAD NO BLOWHOLES IN PUTTY.

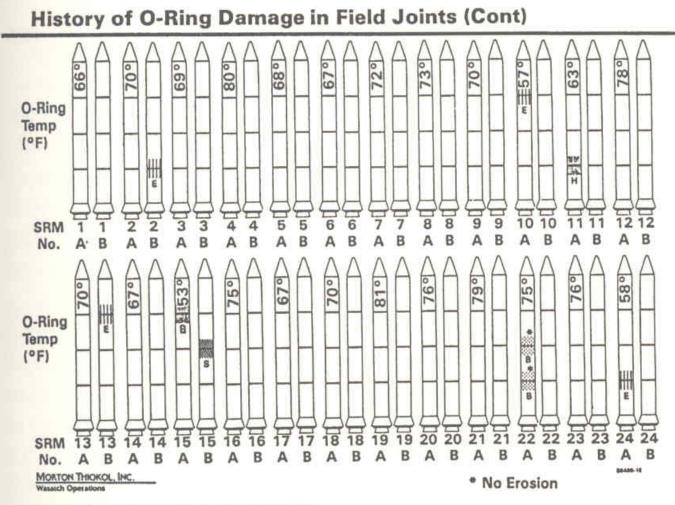
History of O-ring temperatures

Thiokol engineers to Nasa, 27 January 1986

	HISTOR	OF O (DEGRE		PERATURES
MOTOR	MBT	AMB	O-RING	WIND
Dm-+	68	36	47	IO MPH
Dm - 2	76	45	52	10 mp4
Qm - 3	72.5	40	48	10 mpH
Qm - 4	76	48	51	10 MPH
SRM-15	52	64-	53	10 mph
SRM-22	77	78	75	10 MPH
SRM-25	55	26	29 27	10 MPH 25 MPH

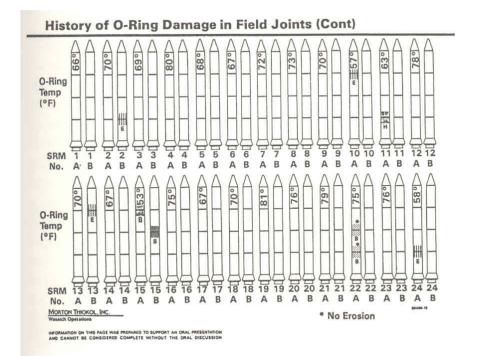
History of O-Ring damage

Thiokol presentation to Presidential Commission, 1986



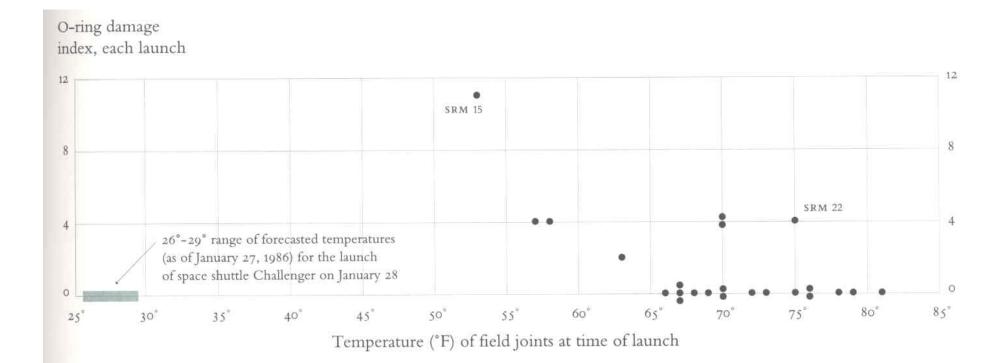
INFORMATION ON THIS PAGE WAS PREPARED TO SUPPORT AN ORAL PRESENTATION AND CANNOT BE CONSIDERED COMPLETE WITHOUT THE ORAL DISCUSSION

History of O-Ring damage (CYA) Thiokol presentation to Presidential Commission, 1986



INFORMATION ON THIS PAGE WAS PREPARED TO SUPPORT AN ORAL PRESENTATION AND CANNOT BE CONSIDERED COMPLETE WITHOUT THE ORAL DISCUSSION

O-ring damage index vs. temperature Edward Tufte, Envisioning Information, 1997



Part 2

Inferface design

Guide to exhibits

90% of display is information

Touch any item for more information.

INFORMATION
art information
bookstores
calendar
copyrights
film programs
gallery talks
guides
hours
photography
security
slide lectures
special programs
Sunday concerts
tours
wheelchairs/strollers

FACILITIES cascade espresso bar checkroom concourse buffet elevators facility for disabled first aid garden cafe lost and found restrooms stairways telephones terrace cafe

Dutch Painting 14th–19th century

Sculpture

Netherlandish Painting

Spanish Painting

Twentieth-century Painting and Sculpture

PERMANENT WORKS

American Painting

British Painting

European Sculpture and Decorative Arts,

Flemish Painting

French Painting and Sculpture

German Painting

Information Design

Italian Painting and

SPECIAL EXHIBITIONS, NOVEMBER 1999



Architectural Designs of Humphry Repton



Henri Rousseau: French Winged Confections



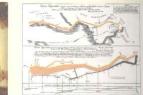
The Great Age of Tedious British Watercolors: 1750 to 1880



Henri Matisse: Les periennes, 1919



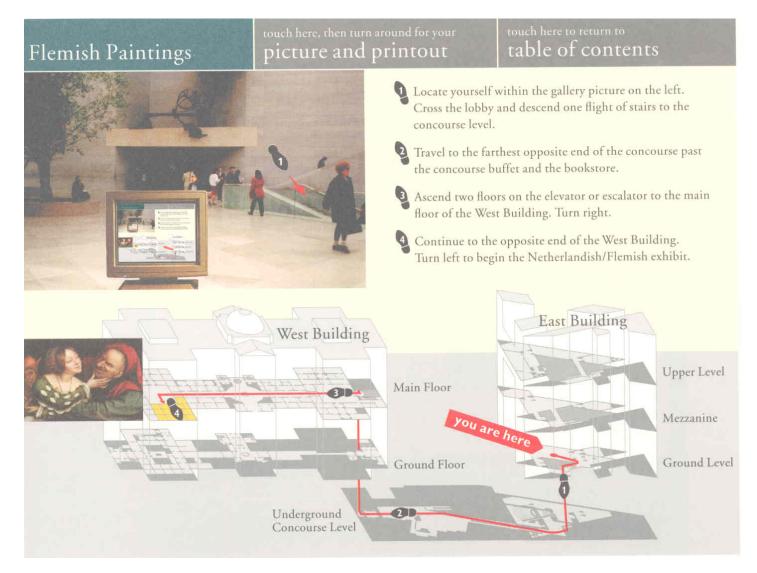
Susan Rothenberg: **Recent Paintings**



Information Designs of Charles Joseph Minard

Navigation

Printed directions plus souvenier



A typical web interface

18% of display is information

