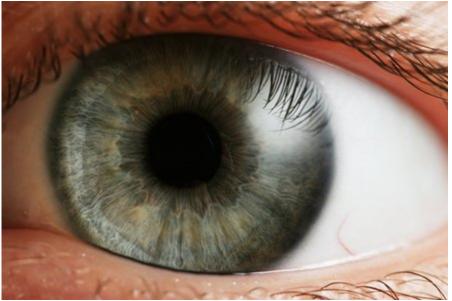
Presentation Skills: Speaking, Graphics

> Philip Wadler Professional Issues October 2014

## Part 0

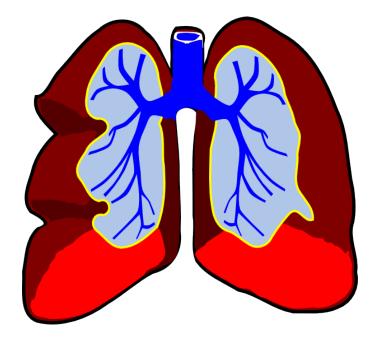
# Presentations and speaking

# 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

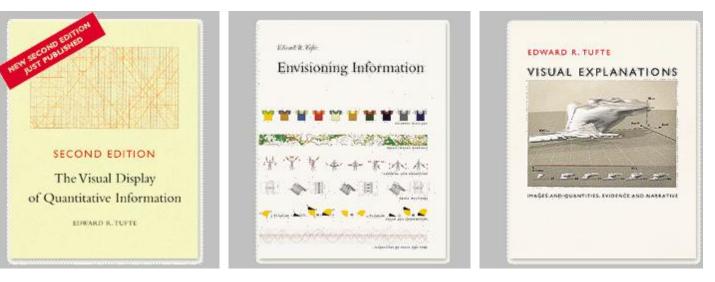


Show up early! Finish early!

# Part 1

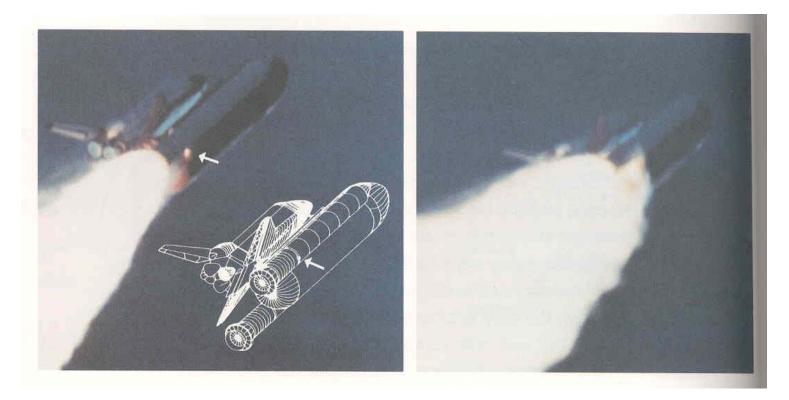
Challenger

# 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.

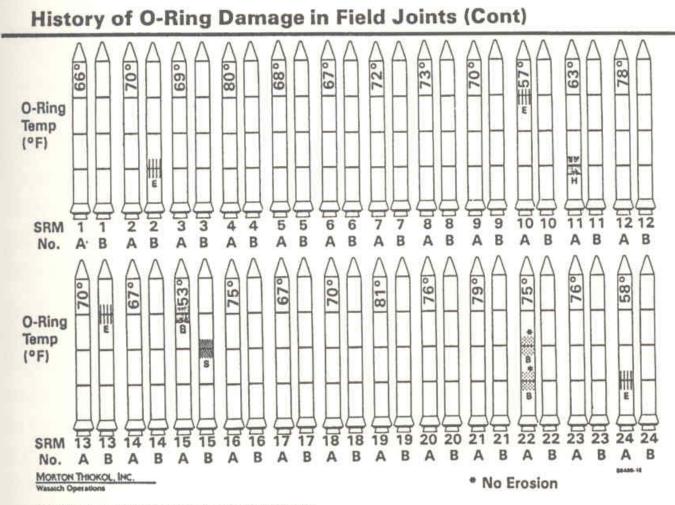
### History of O-ring temperatures

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

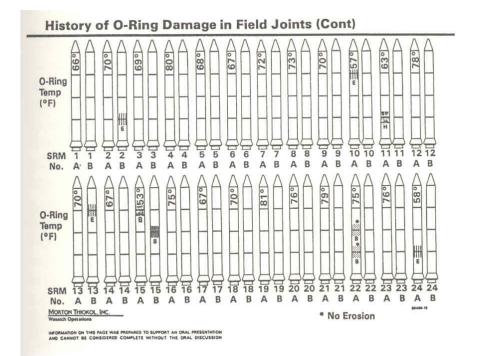
## History of O-Ring damage

#### Thiokol presentation to Presidential Commission, 1986



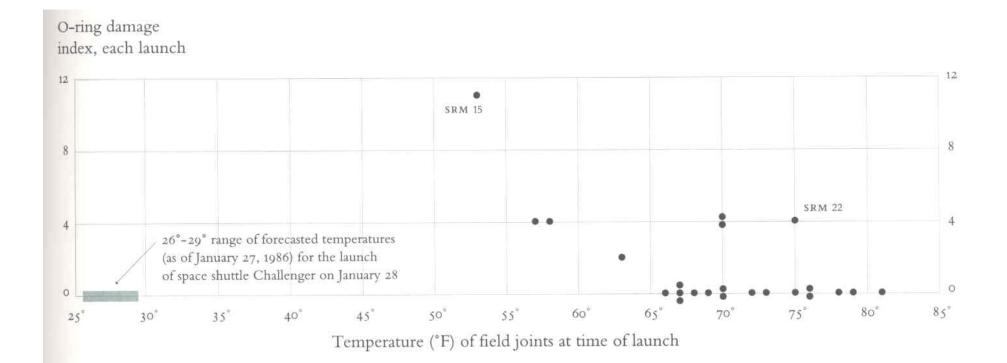
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# History of O-Ring damage (CYA) Thiokol presentation to Presidential Commission, 1986



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



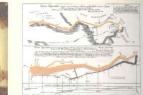
The Great Age of Tedious British Watercolors: 1750 to 1880



Henri Matisse: Les periennes, 1919



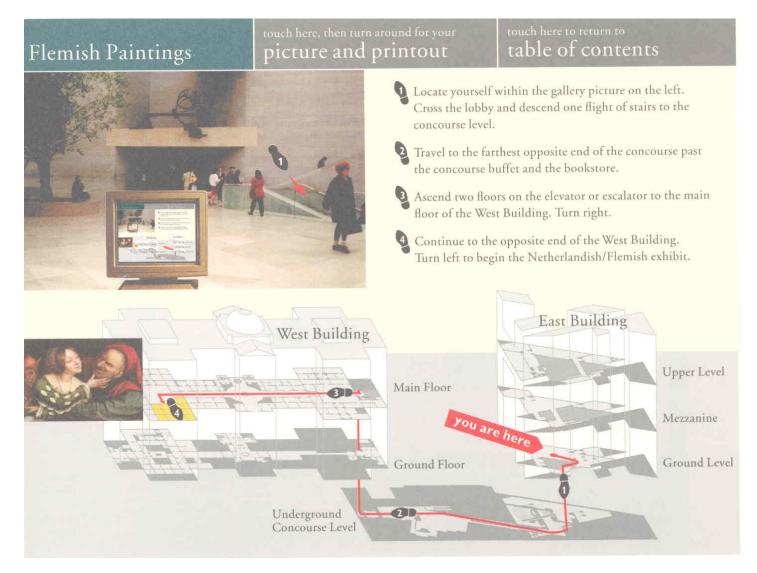
Susan Rothenberg: **Recent Paintings** 



Information Designs of Charles Joseph Minard

# Navigation

#### Printed directions plus souvenier



# A typical web interface

### 18% of display is information

