

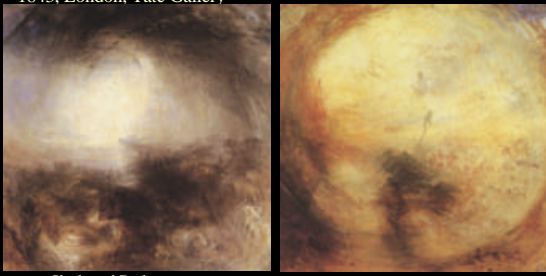
The Art and Science of Depiction

**Limitations of the Medium,
compensation or accentuation**

Fredo Durand
MIT-Lab for Computer Science

J. M. W. Turner

1843, London, Tate Gallery



Shade and Darkness
– the Evening of the Deluge

Light and Colour (Goethe's Theory)
– the Morning after Deluge

Limitations 2

Isabella Stewart Gardner Museum



Limitations 3


Isabella Stewart Gardner Museum



Limitations 4

Isabella Stewart Gardner

- portraits



By Sargent

By Zorn

Limitations 5

Stolen artworks



Jan Vermeer, *The Concert*, 1658-60

Rembrandt von Rijn,
The Storm on the Sea of Galilee
1633

Limitations 6

Isabella Stewart Gardner Museum

- John Singer Sargent, *El Jaleo*, 1882



Limitations

7

Survey

- Scattered!
- There is too much
- You want more
 - More connections
 - Rather more practical
- Reading
 - Scattered
- Lecture
 - Rather complex
 - OK to too fast
 - More images, more films, more variety

Limitations

8

Goals

- Broad overview
- Raise issues
- Different point of view
- Give “cultural background”

Limitations

9

Format

- Too formal
- Active participation is not encouraged enough
- Problem: I talk too much
- Lower our expectations
- More discussion

Limitations

10

Web page of the class

- Slides
- Further reading recommendation
- In the future
 - Annotated bibliography
 - Notes of the slides

Limitations

11

Assignments

- Readings
 - Different choices
 - Summarize to others the next week
 - Prepare questions for the text you have not read
- Solso *Cognition and the Visual Arts*
- Essay
 - Exploratory
 - Or Picture comment
- Final project

Limitations

12

Personal Meeting II

- Class
- Essay
- Project

Limitations

13

Limitations

- Specificities of the 2D medium
- Compensation
- Accentuation

Limitations

14

Plan

- The picture is flat
- The viewpoint is unique
- The image is finite, it has a frame
- The picture is static
- The contrast is limited
- The gamut (palette) is limited

Limitations

15

The viewpoint is unique

- Accidental/general viewpoint
- Multiple views
- Mirror
- Exploded views
- Diverging perspective
- Topological drawing
- Best local view
- Cubism

Limitations

16

The viewpoint is unique

- Impossibility to resolve ambiguity
- Generic/accidental view



Limitations

17

The viewpoint is unique

- Impossibility to resolve ambiguity
- Generic/accidental view



Limitations

18

Accidental viewpoint

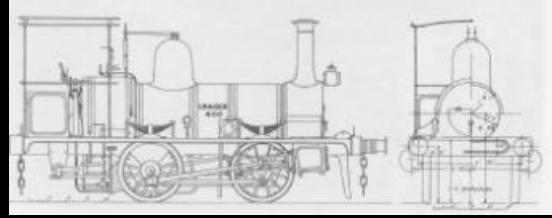


Limitations

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Multiple views

- Engineering

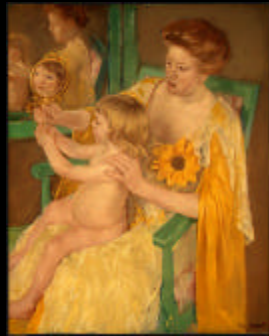


Limitations

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Mirrors

- Mary Cassatt



Limitations

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Mirrors

- Velasquez

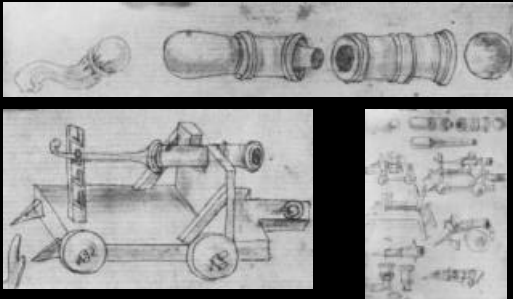


Limitations

22

Exploded views

- Tacolla, 1433

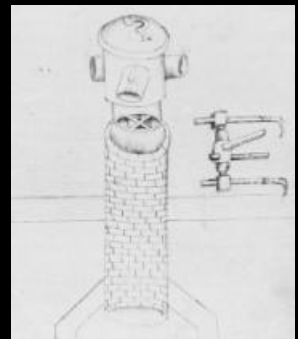


Limitations

23

Divergent perspective

- Tacolla, 1427



Limitations

24

Divergent perspective

- Bifolio from a Gospel book:
Mark
Byzantin, 15th century



Limitations

25

Divergent perspective

- Andrei Rublev
The Trinity
1408-1425



Limitations

26

Divergent perspective

- Hasadera Enji



Limitations

27

Divergent perspective

- 15 year old girl



Limitations

28

Divergent Perspective

- David Hockney
Chair



Limitations

29

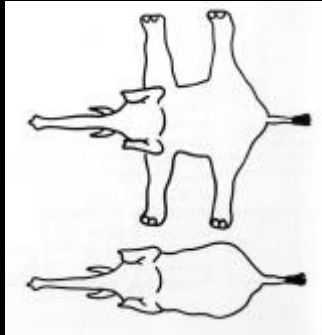
Double profile view



Limitations

30

What I see/What I know



Limitations

31

Multi-perspective

- Umberto Boccioni
The Street Enters the House



Limitations

32

Multi-Perspective

- M. C. Escher
Other World
1947



Limitations

33

Multi-perspective

- David Hockney
Mother



Limitations

34

Cubism

- Picasso
Portrait of a Woman



Limitations

35

Cubism



Limitations

36

Best local view



Limitations

37

Best local view



Limitations

38

Best local view



Limitations

39

The image is finite, it has a frame

- Window
- Verticals & frame
- Distortion compensation
- Cropping
- Panorama

Limitations

40

The Picture as a Window

- Durer



Limitations

41

The Picture as a Window



Limitations

42

The Picture as a Window

- Magritte



Limitations

43

Window



Limitations

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Window

- Mucha
- Interaction 2D/3D

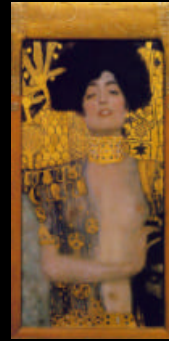


Limitations

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Window

- Gustav Klimt
Judith



Limitations

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Verticals and Horizontals

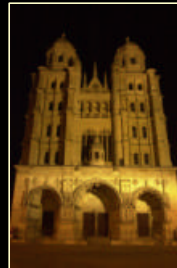
- Burnes Jones
Pygmalion



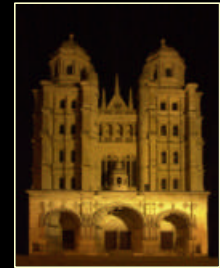
Limitations

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Verticals and Horizontals



Limitations



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Distortion compensation



Limitations

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Framing

- Hiroshige, *Car Wheel at the Sea Shore* 1857



Limitations

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Framing

- Degas



Limitations

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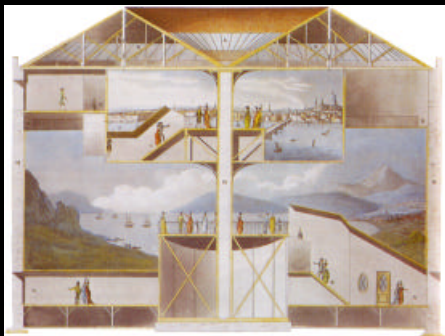
Absence of Framing



Limitations

52

Panorama



Limitations

53

Modern Panorama

- QuickTime VR
- IMAX



Limitations

54

Hand Rolls



Limitations

55

Negative space & balance

- Rembrandt
Self Portrait



Limitations

56

Cropping

- Botticelli



Limitations

57

Cropping



Limitations

58

Different format

- Jean Cocteau
Gabier de Vigie



Limitations

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