Lecture 2: Design of Visual Displays

Segmentation and variables of the display plane. Modes of correspondence.

Position in the course

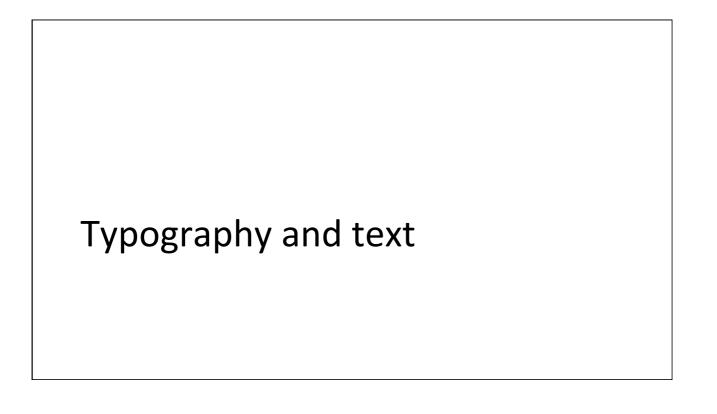
- Theory driven approaches to HCI
- Design of visual displays
- Goal-oriented interaction
- Designing smart systems (guest lecturer)
- Designing efficient systems
- Designing meaningful systems (guest lecturer)
- Evaluating interactive system designs
- Designing complex systems

Today's objective

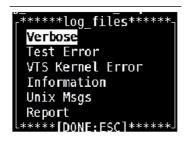
- Gain a vocabulary for analysis and critique of visual displays
- Place visual design options within a universal framework
- Understand the range of options for design innovation
- Revisit familiar aspects of the "screen world" from a historically-informed design research perspective

Themes in this lecture

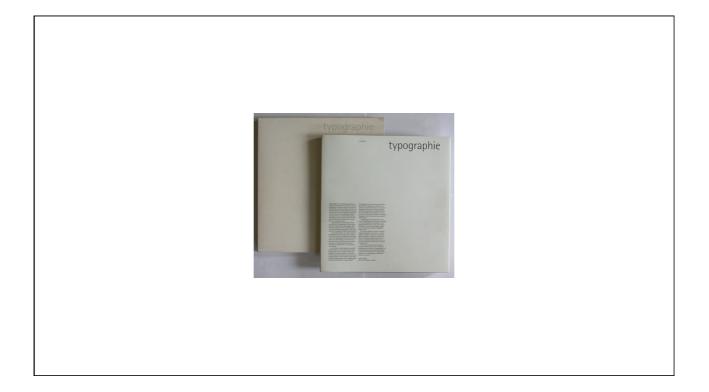
- Typography and text
- Maps and graphs
- Schematic drawings
- Node-and-link diagrams
- Icons and symbols
- Visual metaphor
- Pictures perspective and framing
- Unified theories of visual representation
 - encyclopaedia article, with accompanying videos, available at interactiondesign.org



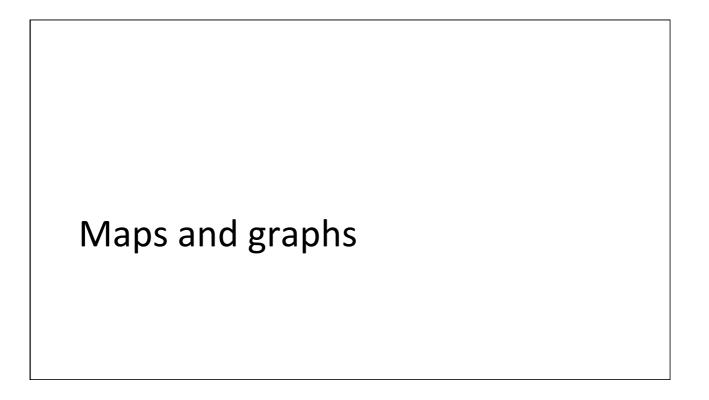


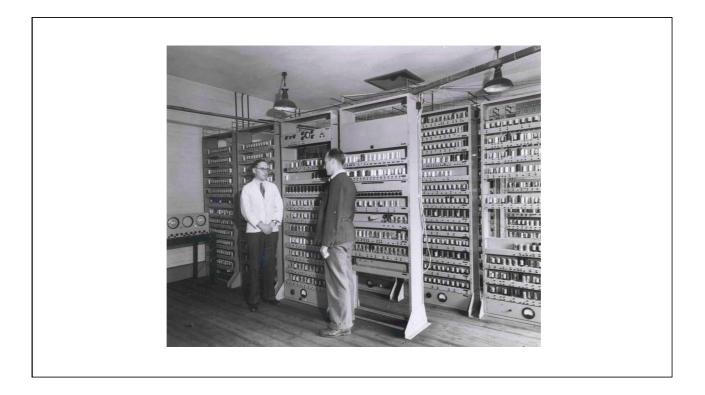


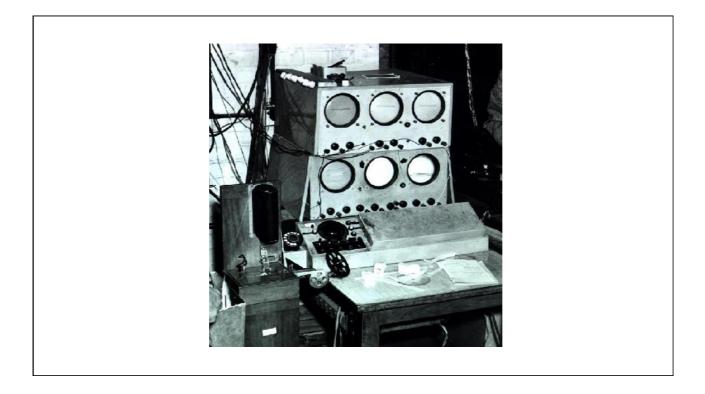


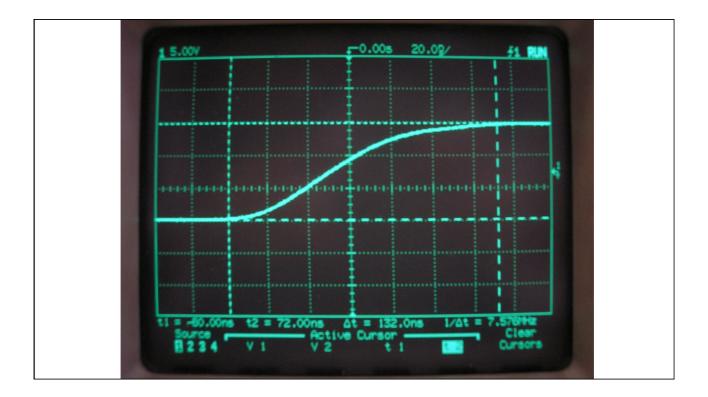


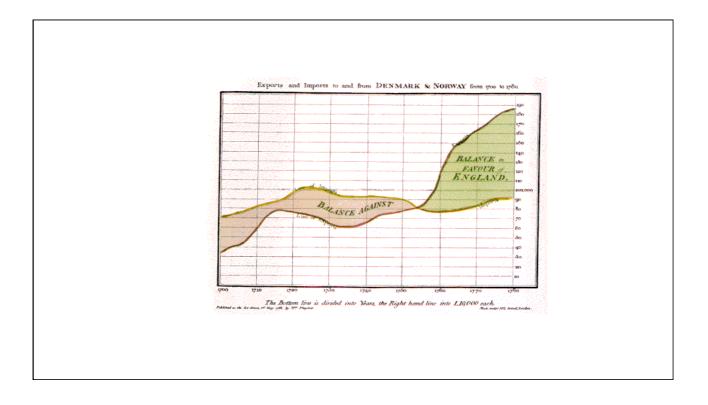
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Articles	Tools	Books	Templates	Blog	Inspiration	
30 Grid-Based WordPress Themes In this atticle we have 30 WordPress themes have been devidende using a popular CSS Grid Frame- works such as the 980, gs, Blueprint, YUI2 and The Golden Grid. 23.Aug.2010		Universal Principles of Design Universal Principles of Design is the first compre- hensive, cross- disciplinary encyclope- dia of design. 04.Nov.2009	The Golden Grid Template A PSD template based on the CSS framework The Golden Grid by Vladimir Carrer. 02.Mar.2010	Forum is back up! Sorry for the downtime on the forums. They're back up now, 07.May.2010	Ace Jet 170 AslaC/Ine Athletics BBDK Blanka Build Corporate Risk Watch Counter Print David Airey Design Assembly Dirty Mouse Experimental Jetset	
Design & Build a Grid Based Web Design with CSS Step by step walthrough of the design and build process of a grid based WordPress theme. From the initial Photoshop con- cept, through development. 23.Aug.2010	iPhone Grid System A 128 (480:220) modular grid system for the IPhone, with the unit of 40px and the gutter of 5px. 23.Aug.2010	Designing for the Web A Pratical Guide to Designing for the Web has written explanations of the core principles of graphic design in relation to the web. 08.Oct.2009	Photoshop 4 Column Grid A free 4 Column Photo- shop grid template for a 1024 x768 screen resolu- tioa v 780 Gulick. 08.Jun.2009	Sushi & Robots Beauffully personal port- folio by Jima Bolton that reveals the sells grif and baseline grid. 07.May.2010	Form Fifty Five Graft Magazine Grain Edit Graphic Hug I Love Typography Lamosca Mark Boulton Minimal Sites Monoccle Neubau NewWork OK-RM Original Linkage	
Long Live the 12-Column Grid When I first crossed the great divide from print to web, one of the satilest things I thind to do was introduce a flexible multi- column grid you know, like a magazine). 07.May.2010	Fluid Grid A web grid system that allows designers to use the screen real estate on large monitors and retain great design on smaller ones. 07.May.2010	The Way of Typography The book also goes into depth on how to create grid systems by hand with only pencil, straightedge and compass. 18.Sep.2009	InDesign 568x792 Grid System (12) By Dario Galvagno. Adobe InDesign file with a grid system for a 568pts x 792pts page that is divided into 12 columns and rows using the Golden Ratio. Includes a 12pt baseline grid. 16.Apr.2009	Bisgrafic Lovely grid atte design by Barcetona based Bisgrafic. 07.May.2010	Robin Uleman Sampsonlikay Schmid Today September Industry Soulellis Subtraction Swiss Legacy The International Office Thinis Studio Toko Typographic Posters Visuelle	
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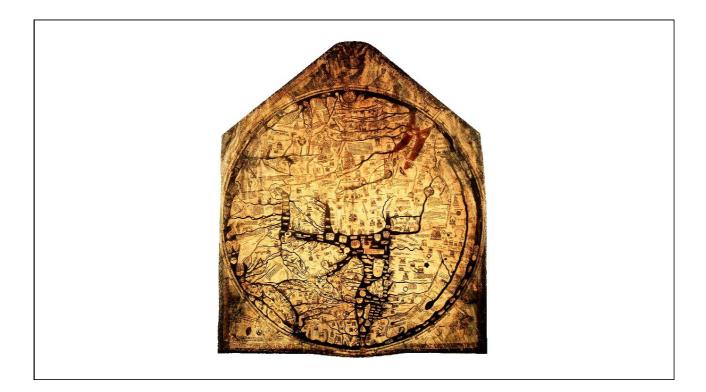


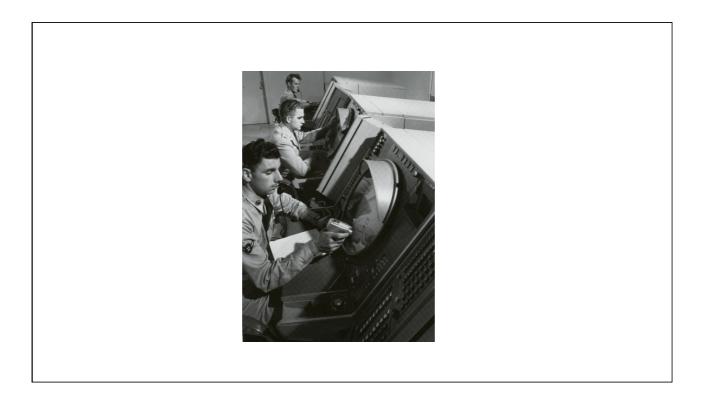






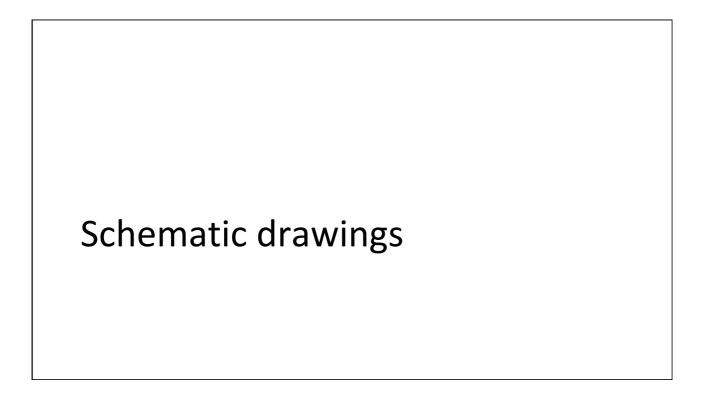




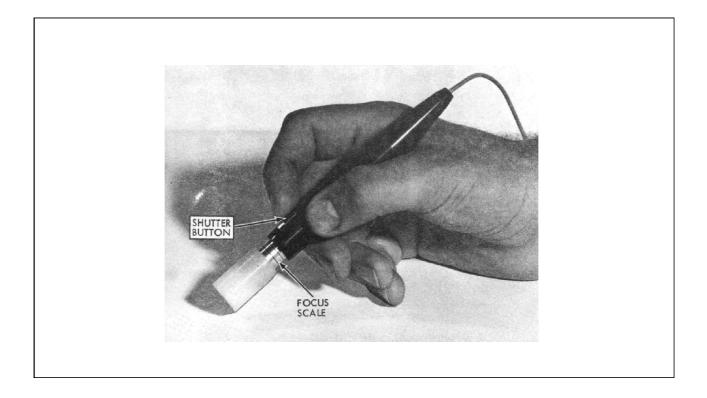


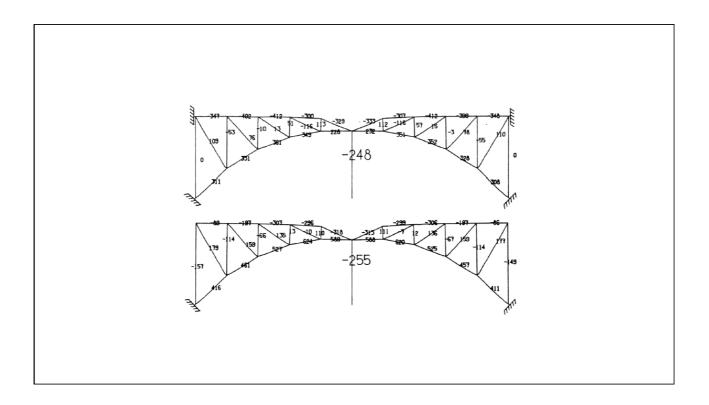


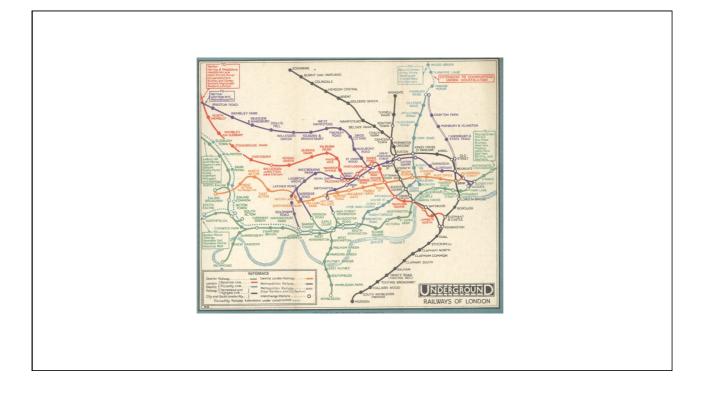




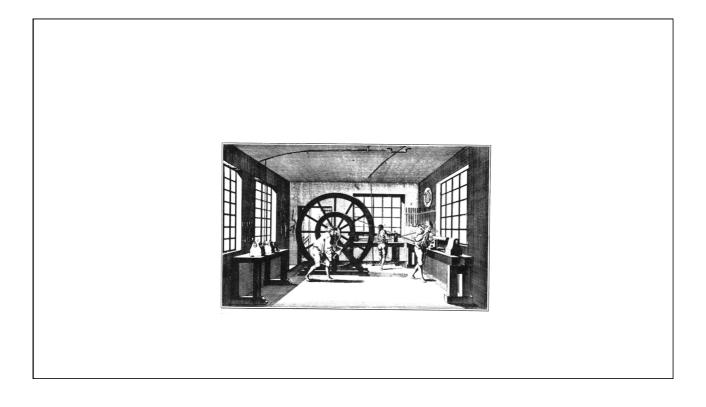


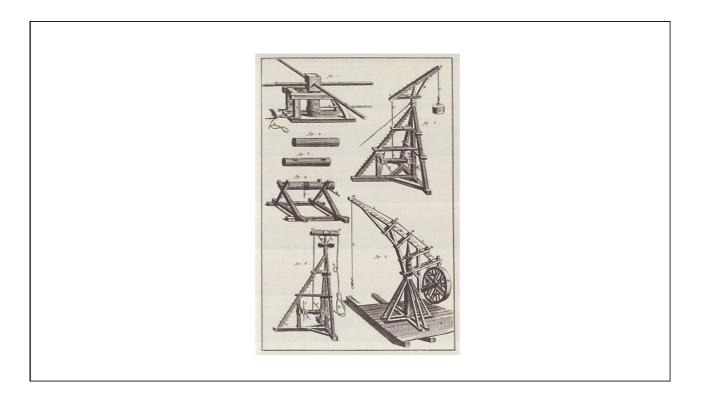


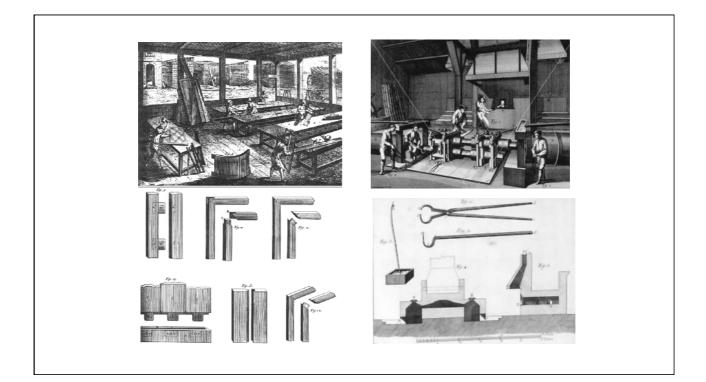


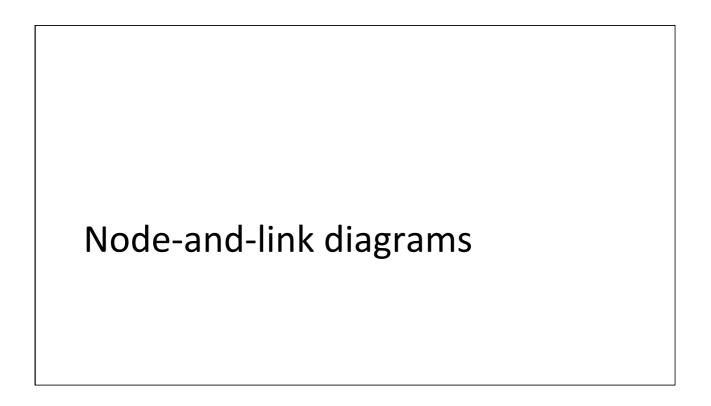


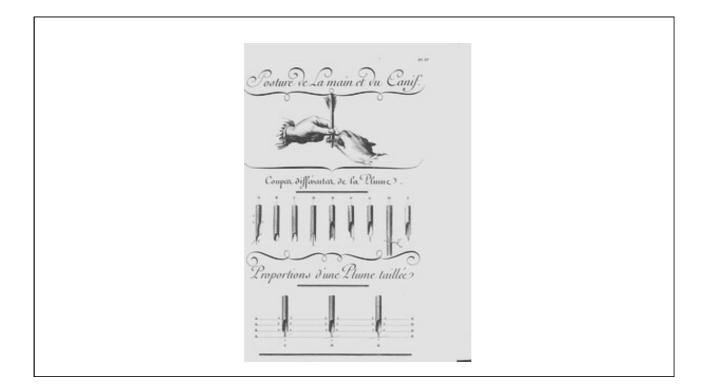


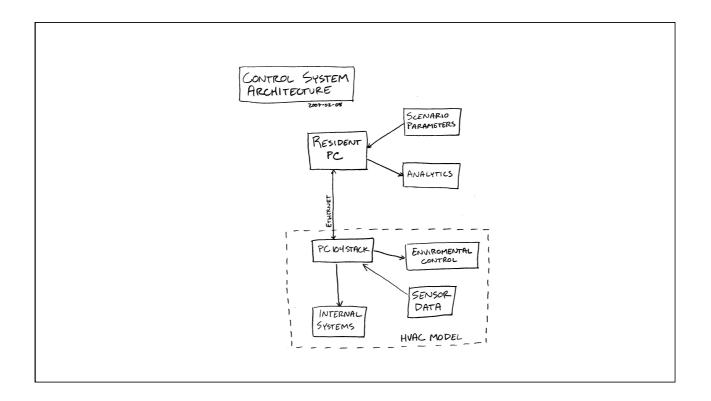


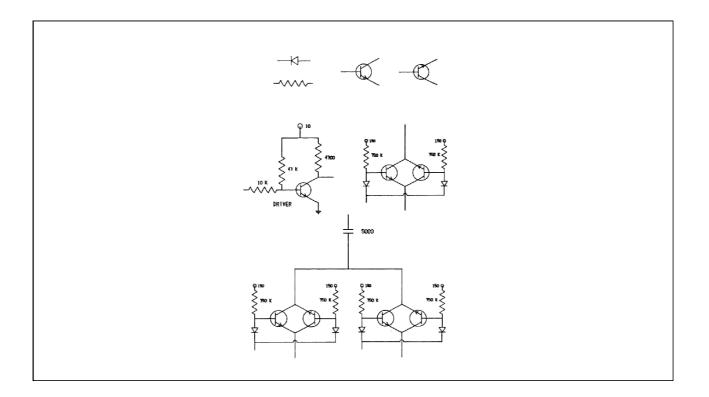


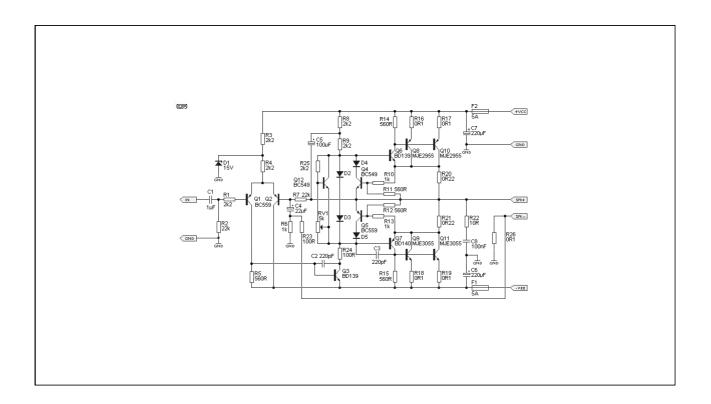


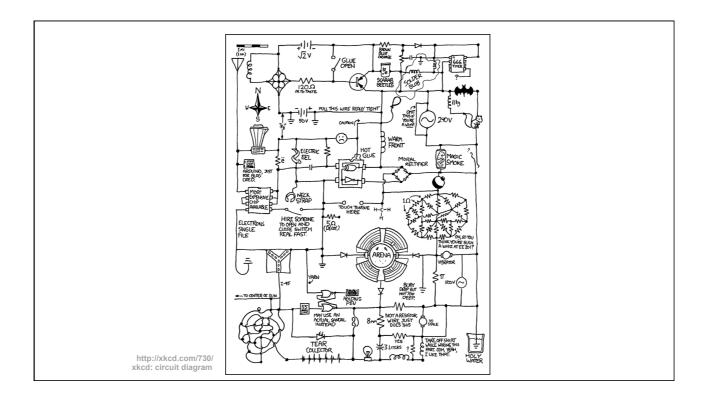




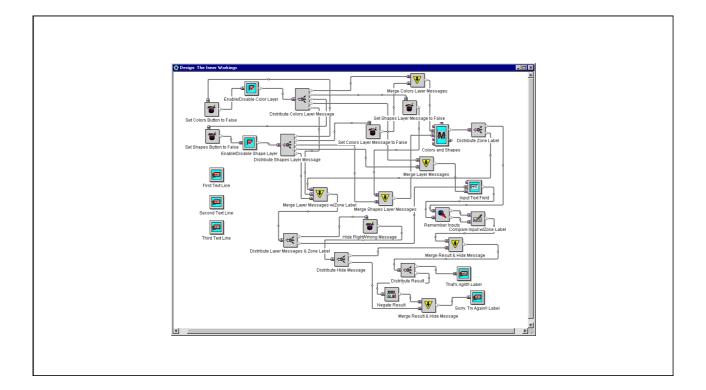


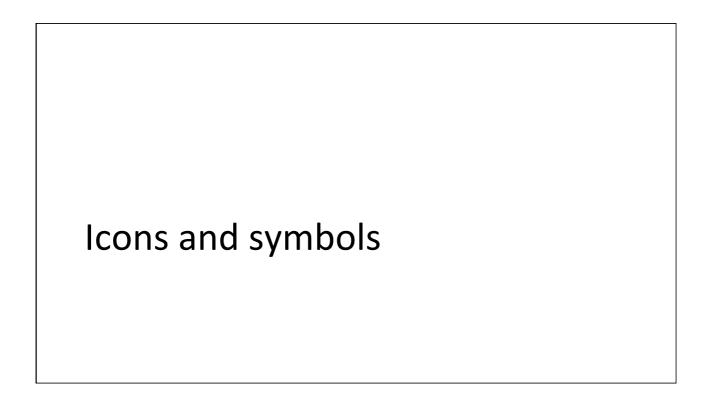


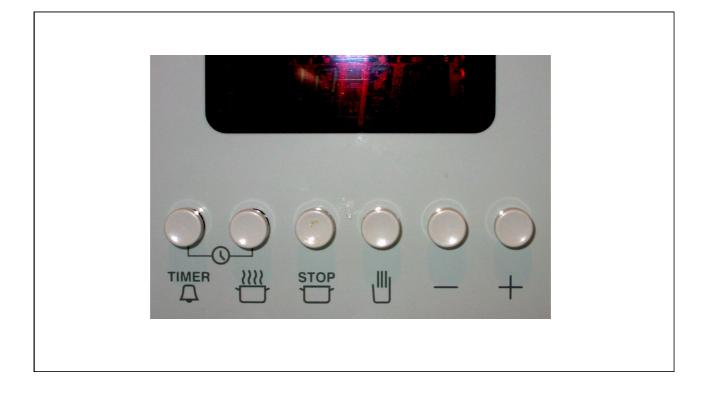


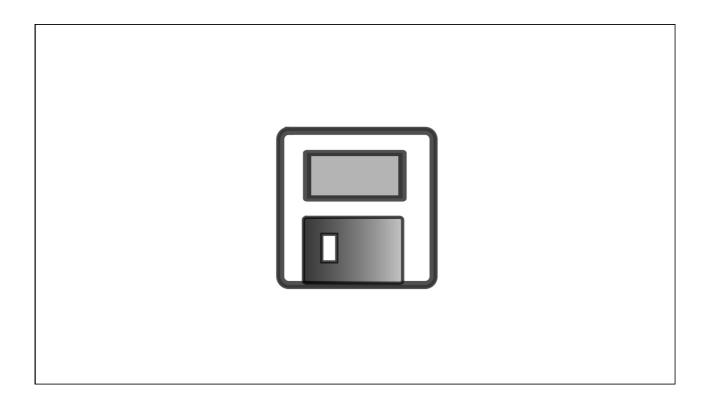


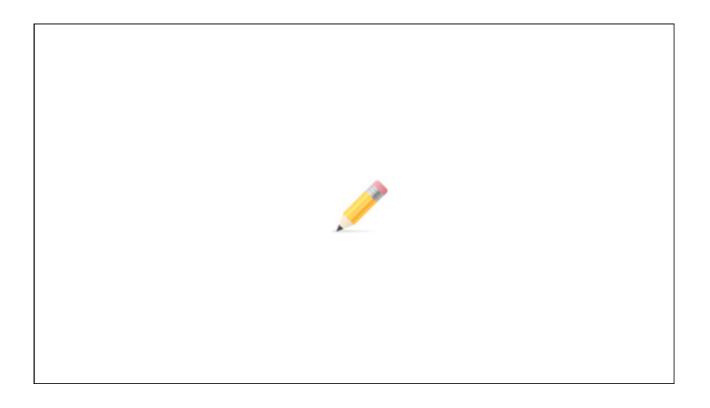
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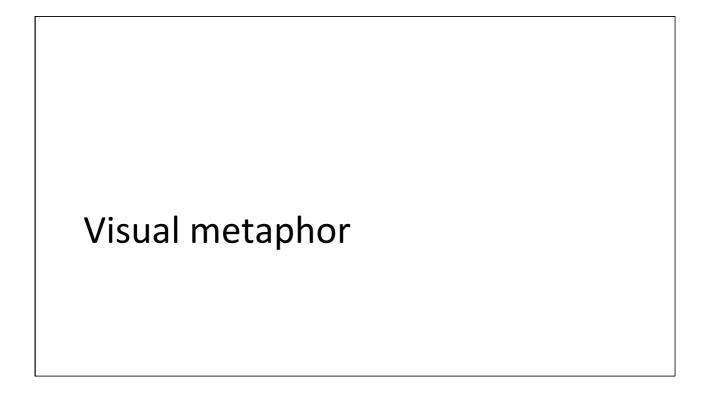


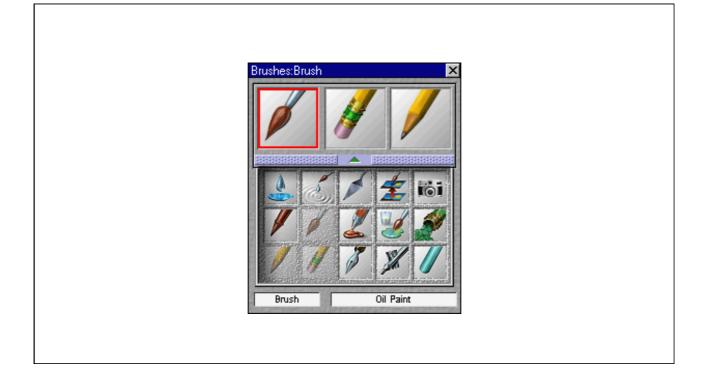


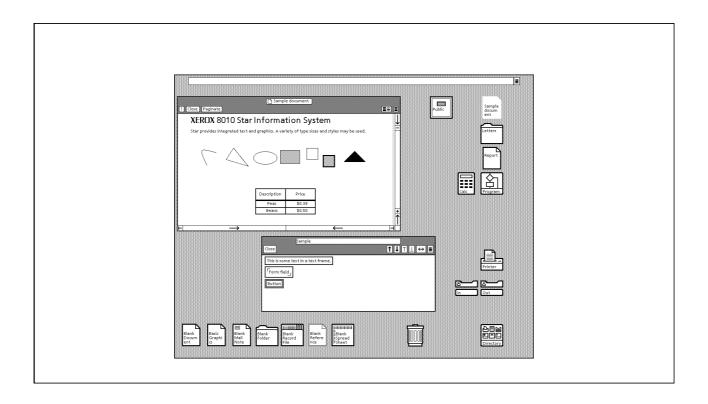


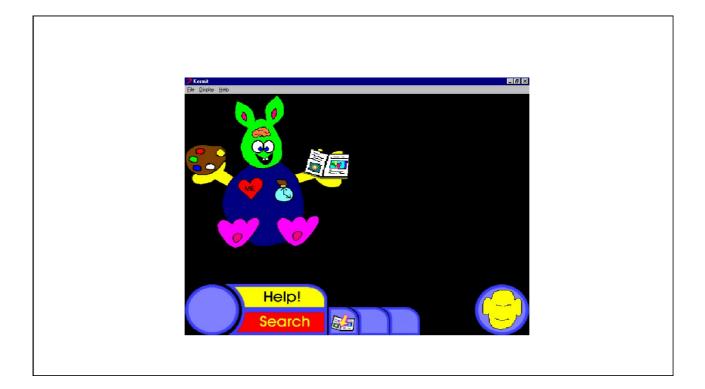




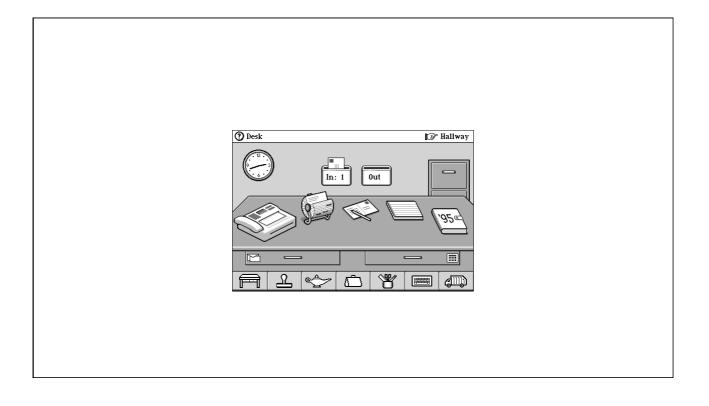


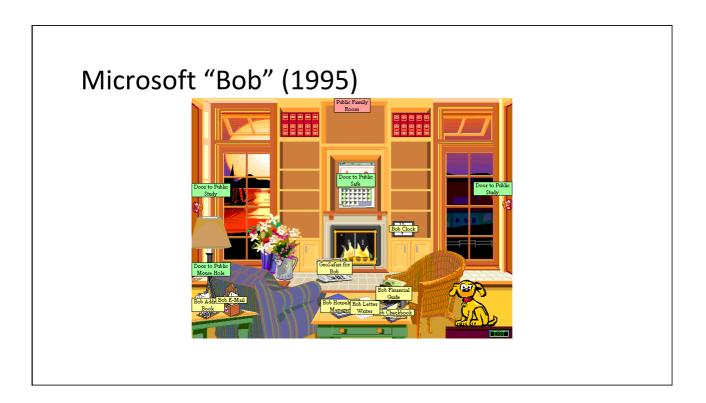






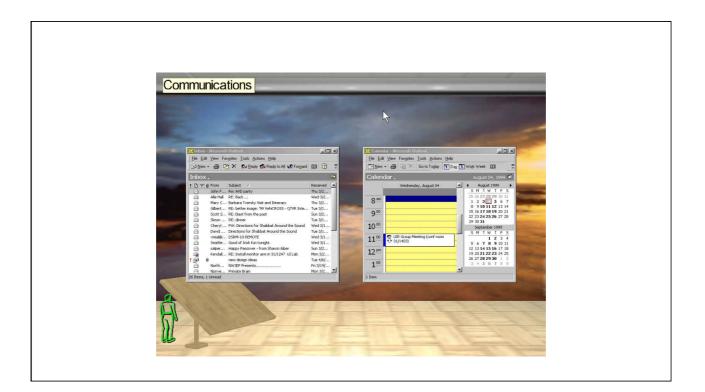






Microsoft "Task Gallery" (2000)

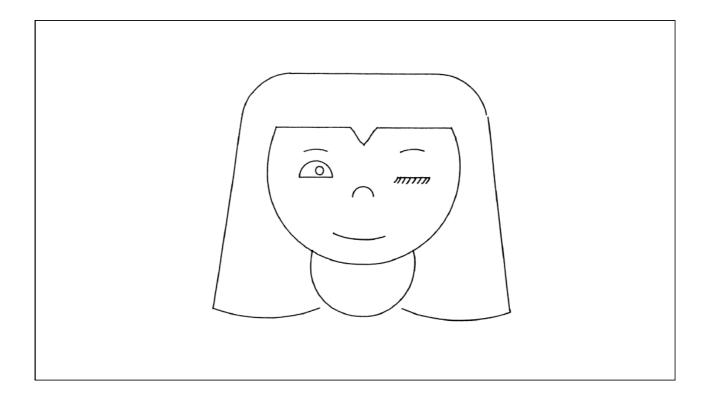


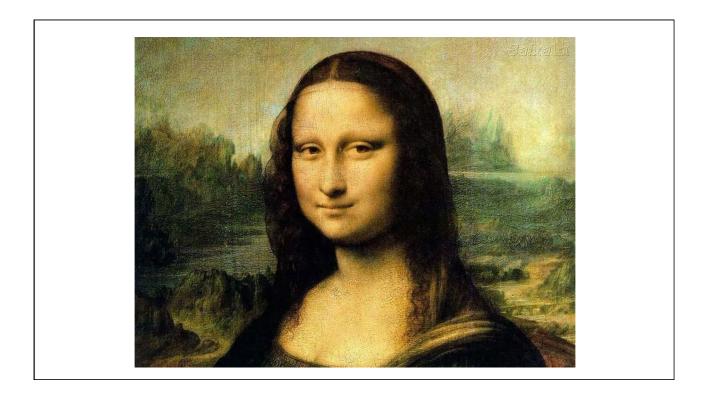










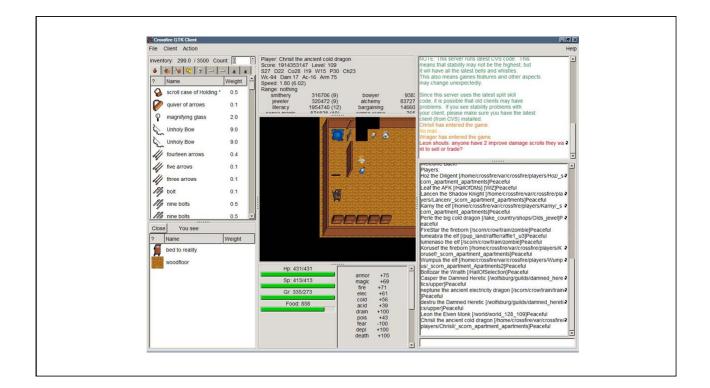


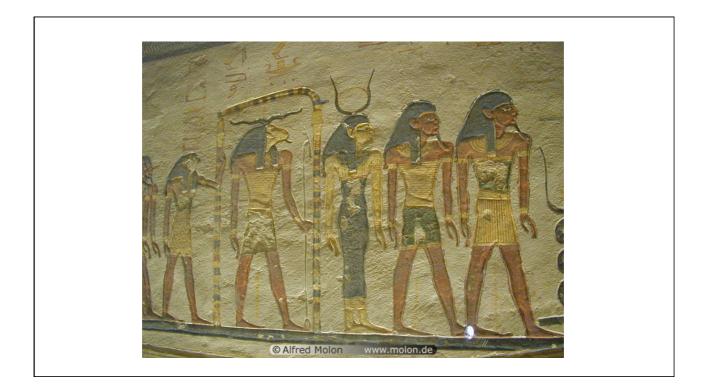


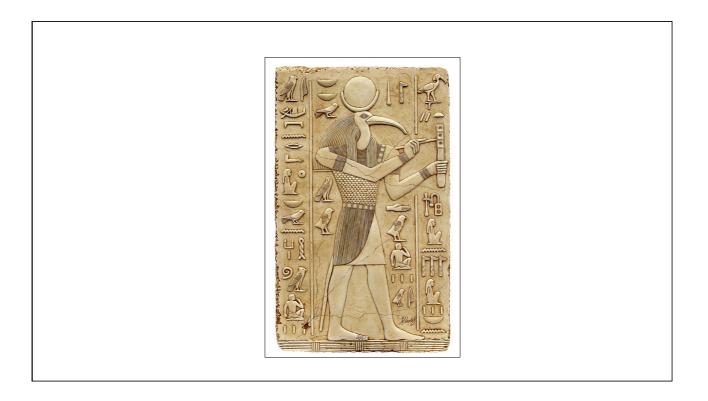


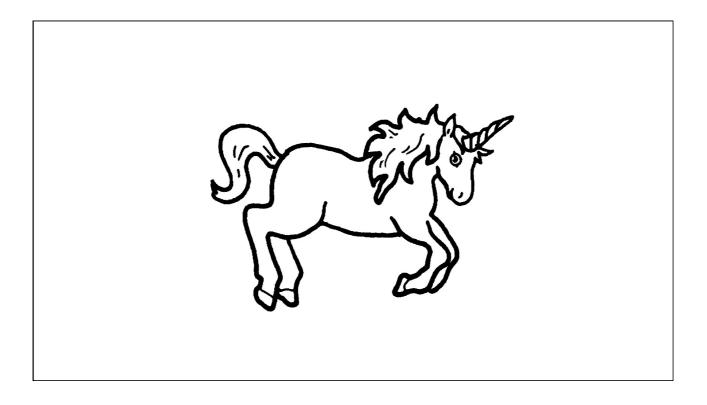


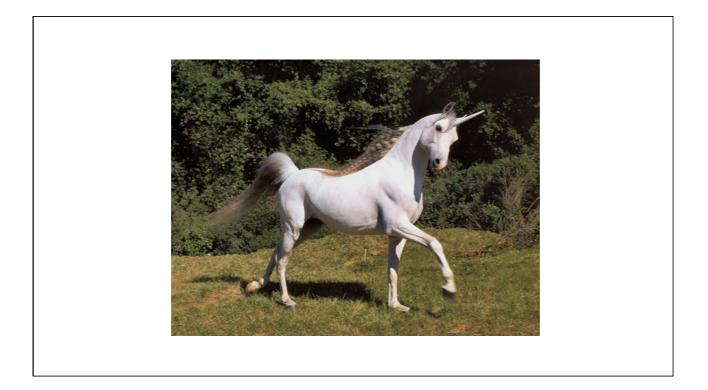


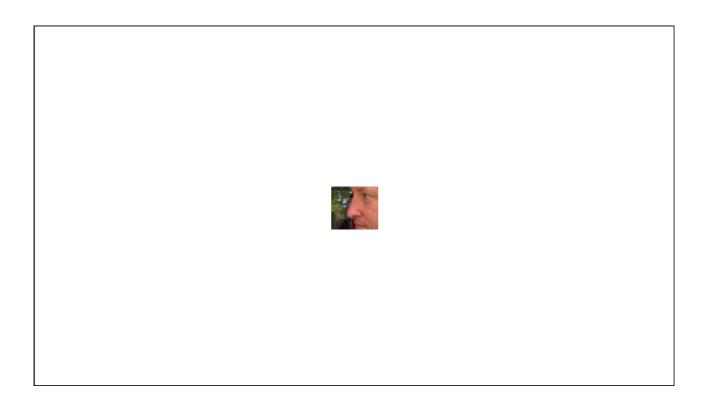






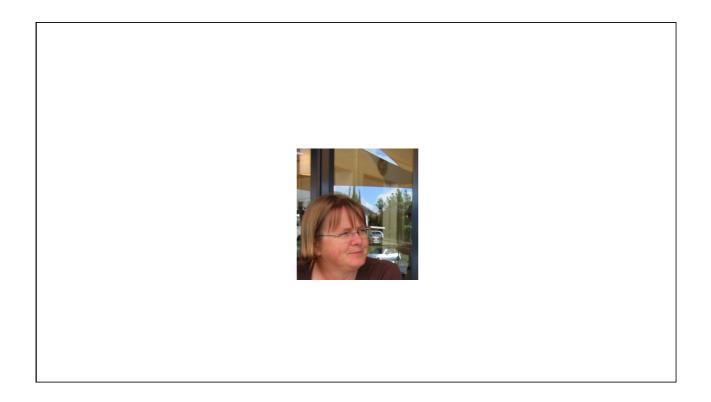


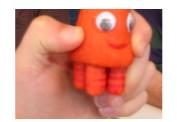


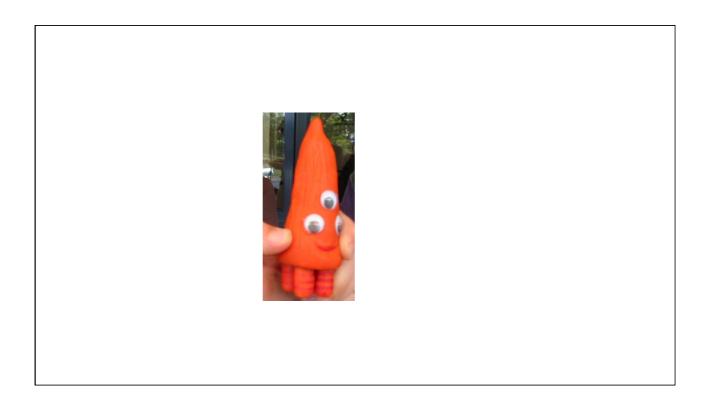








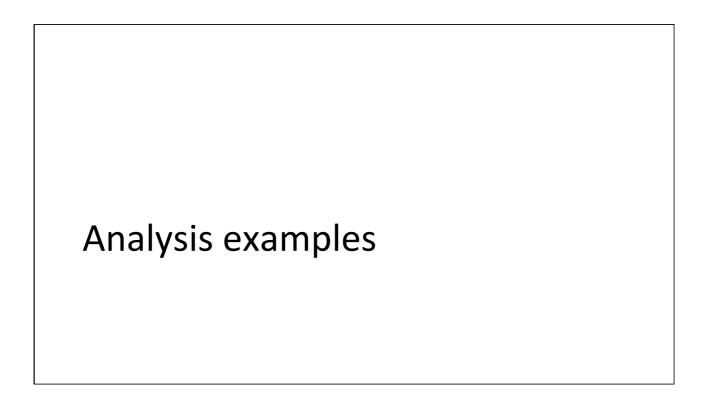




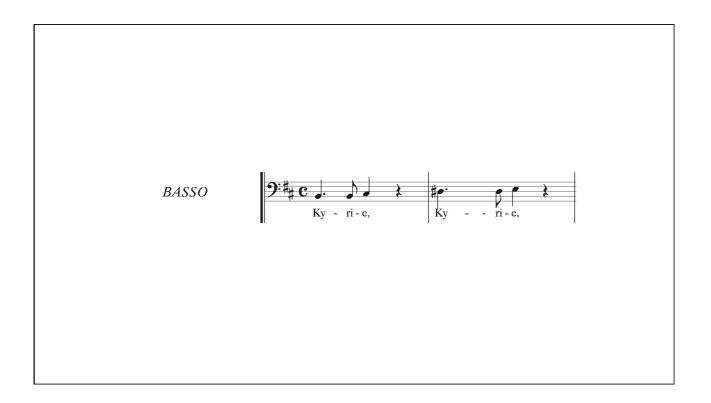


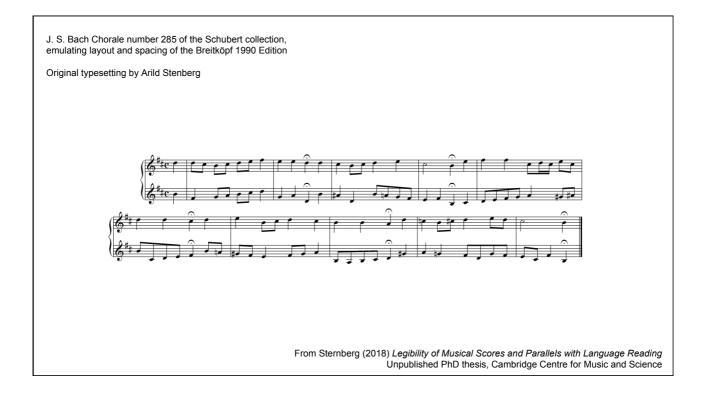
Unified theories of visual representation

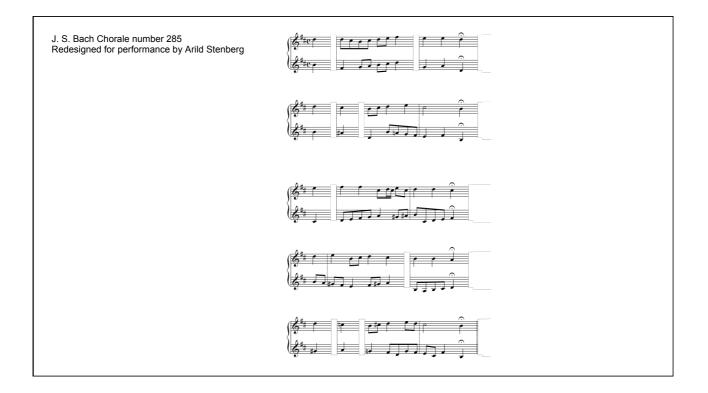
	Graphic Resources	Correspondence	Design Uses
Marks	Shape Orientation Size Texture Saturation Colour Line	Literal (visual imitation of physical features) Mapping (quantity, relative scale) Conventional (arbitrary)	Mark position, identify category (shape, texture colour) Indicate direction (orientation, line) Express magnitude (saturation, size, length) Simple symbols and colour codes
Symbols	Geometric elements Letter forms Logos and icons Picture elements Connective elements	Topological (linking) Depictive (pictorial conventions) Figurative (metonym, visual puns) Connotative (professional and cultural association) Acquired (specialist literacies)	Texts and symbolic calculi Diagram elements Branding Visual rhetoric Definition of regions
Regions	Alignment grids Borders and frames Area fills White space Gestalt integration	Containment Separation Framing (composition, photography) Layering	Identifying shared membership Segregating or nesting multiple surface conventions in panels Accommodating labels, captions or legends
Surfaces	The plane Material object on which the marks are imposed (paper, stone) Mounting, orientation and display context Display medium	Literal (map) Euclidean (scale and angle) Metrical (quantitative axes) Juxtaposed or ordered (regions, catalogues) Image-schematic Embodied/situated	Typographic layouts Graphs and charts Relational diagrams Visual interfaces Secondary notations Signs and displays



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Marks Shape Conventional (arbitrary) Mark position Symbols Geometric elements Topological (linking) Texts Letter forms Acquired (specialist literacies) Definition of regions Connective elements Containment Segregating and nesting multiple surface conventions in panels Regions Alignment grids Containment Segregating and nesting multiple surface conventions in panels Surfaces Material object on which the marks are imposed (paper) Metrical (quantitative axes) Juxtaposed and ordered (regions) Musical score		Graphic Resources	Correspondence	Design Uses
Letter forms Acquired (specialist literacies) Definition of regions Regions Alignment grids Containment White space Separation Segregating and nesting multiple surface conventions in panels Surfaces Material object on which the marks are imposed (paper) Metrical (quantitative axes) Musical score	Marks	Shape	Conventional (arbitrary)	
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are imposed (paper)	Regions			surface conventions in panels
	Surfaces			Musical score















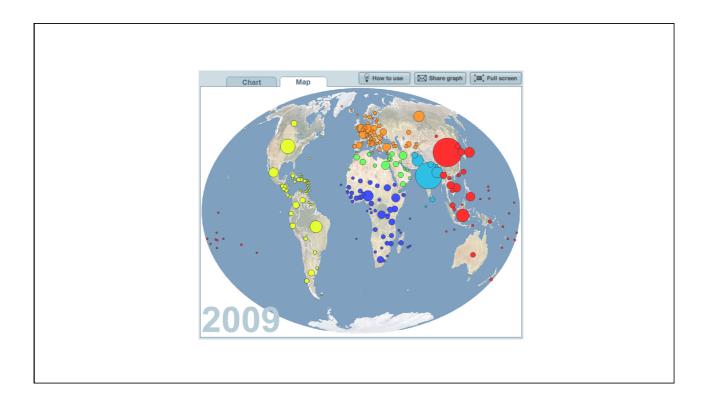




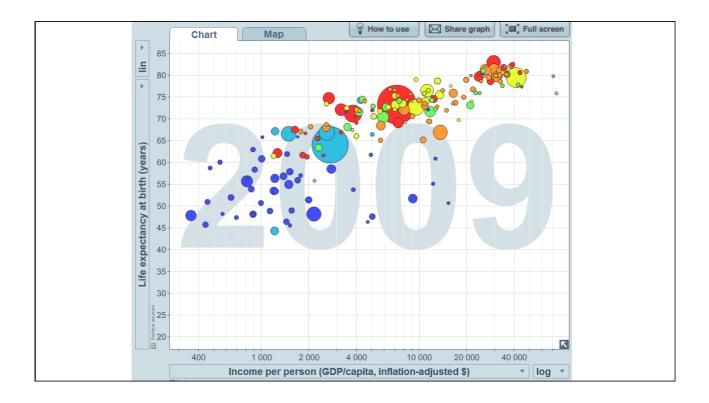


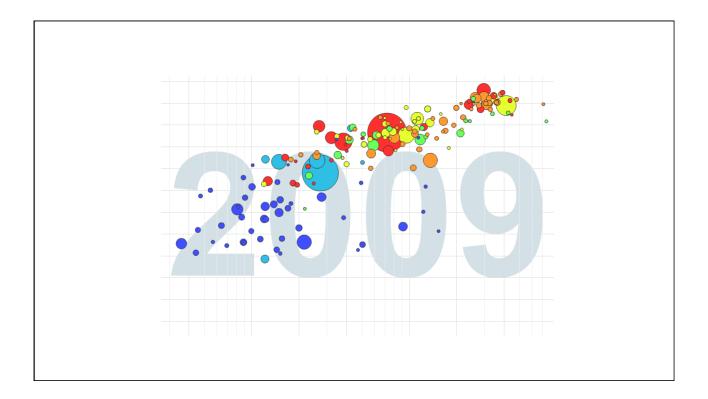












	Graphic Resources	Correspondence	Design Uses
Marks	Size	Mapping (quantity, relative scale)	Mark position
	Colour		identify category (colour)
			Express magnitude (size)
Symbols	Geometric elements	Topological (linking)	Diagram elements
	Connective elements		Visual rhetoric
Regions	Alignment grids	Containment Separation	Segregating or nesting multiple surface conventions in panels
		Framing (composition)	Accommodating labels, captions or legends
Surfaces	Display medium (web browser)	Metrical (quantitative axes)	Graphs and charts
		Image-schematic?	