

Situated Interaction

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This week:

Discuss:
 Exercises #3-4

Lecture: Substrates

Class:

Exercise #5:	Critical Object Interview	pair
Exercise #6:	Cross-Application Tools	pair
Exercise #7:	Pencil Properties	pair

Homework:

Exercises	#6, #7
New Exercise	#8: Finding Structures

Homework

Read:

Beaudouin-Lafon, M. (2000). Instrumental Interaction: an Interaction Model for Designing Post-WIMP User Interfaces. *Proc. ACM Human Factors in Computing Systems, CHI 2000*, The Hague (The Netherlands), CHI Letters 2(1):446-453, ACM Press.


Beaudouin-Lafon, M. & Mackay, W. (2000). Reification, Polymorphism and Reuse: Three Principles for Designing Visual Interfaces. *Proc. Advanced Visual Interfaces, AVI 2000*, Palermo (Italie), ACM Press, pp 102-109.

Exercise #3 Graphical Objects as Tools

Create a drawing with properly aligned and distributed objects without using any 'official' tools:

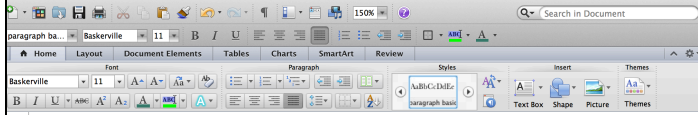
- No "align" command
- No "distribute" command
- No "rotate" command

Just:
 create, copy, paste,
 move, resize, and color
 circles, rectangles and text



Exercise #4 Finding Digital Tools

Choose a creative software application such as Microsoft Word



Take a screen shot of one toolbar.
Count how many discrete tools appear on the screen
Give each tool a name and a brief description of what it does, with pointers to the screenshot

Shape: insert a new shape

Homework: send typed exercises to:
To: mackay@iri.fr; mbi@iri.fr
Subject: <last name> FS: Ex #3: Finding Digital Tools


Exercise #5 Critical Object interview

What happened first: What did you try to do?
Did it work? If yes, what did you do next?
If no, what else did you try?

Interview #1: A interviews B and takes notes
Interviewer A: _____ Interviewee B: _____
Question: _____
Answer: _____
Question: _____
Answer: _____
...

Interview #2: B interviews A and takes notes
Interviewer B: _____ Interviewee A: _____
Question: _____
Answer: _____
Question: _____
Answer: _____

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To: mackay@iri.fr; mbi@iri.fr
Subject: <last name> FS: Ex #3: Graphical Tools

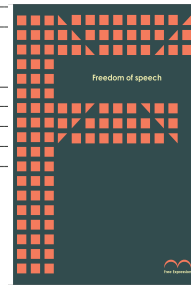


Exercise #5 Critical Object interview

Interview #1: A interviews B and takes notes
Interviewer A: _____ Interviewee B: _____
Question: _____
Answer: _____
Question: _____
Answer: _____
...

Interview #2: B interviews A and takes notes
Interviewer B: _____ Interviewee A: _____
Question: _____
Answer: _____
Question: _____
Answer: _____
...

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Subject: <last name> FS: Ex #3: Graphical Tools



For next week:

Exercise #5: Cross-Application Tools individual

Send your typed notes of your critical object interview

Plus: Choose a partner
Choose 3 articles for your iMuseum entries

(Enter your choices in the Google Doc)

For next week:

Exercise #5: Cross-Application Tools duo

Plus: Choose a partner
Choose 3 articles for your iMuseum entries

(enter your choices in the Google Doc)

Exercise #6 Cross-Application Tools

Group exercise (15 + 15 minutes)

- Find tools that are used *across multiple applications*
For each tool: How similar / dissimilar are they?
What do they reify?
Are they polymorphic?
Are they reusable?
- Find tools that exist *in only one application*
For each tool: How could it be used in another application?

Homework: send typed exercises to:
To: mackay@iri.fr; mbi@iri.fr
Subject: Group # FSI: Ex #5: Cross-App Tools

Exercise #7 Pencil Properties

Group exercise

- Start with your group's set of pencil ideas.
List the physical properties of the pencil, e.g. 'rigid', that make the activity possible.
- For each physical property, list as many uses of that property as you can, e.g., 'prop up a young plant'.

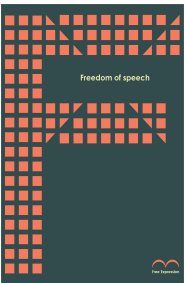
Homework: send typed exercises to:
To: mackay@iri.fr; mbi@iri.fr
Subject: Group # FSI: Ex #5: Cross-App Tools

Exercise #5 Critical Object interview

Interview #1: A interviews B and takes notes
Interviewer A: _____ Interviewee B: _____
Question: _____
Answer: _____
Question: _____
Answer: _____
...

Interview #2: B interviews A and takes notes
Interviewer B: _____ Interviewee A: _____
Question: _____
Answer: _____
Question: _____
Answer: _____
...

Homework: send typed exercises to:
To: mackay@iri.fr; mbi@iri.fr
Subject: <last name> FSI: Ex #3: Graphical Tools



Software: Adobe XD, 21.2.12.3
 Hardware: LG Gram, Windows 10
 Purpose: Vector Design, Prototype

Author: YAO Ming
 # Tools: 39

Software: Adobe XD, 21.2.12.3
 Hardware: LG Gram, Windows 10
 Purpose: Vector Design, Prototype

Software: Mendeley
 Hardware: xxx
 Purpose: Save PDFs, generate citations, organise, references, automatic backup

Author: Michael Michailidis
 # Tools: 17

1. Select: Make the cursor able to select text as usual (Position cursor at one end of the text that you want to select. Press and hold down your mouse button, drag to the other end of the text, and then release the mouse button)
2. Select dropdown: An option to select text by drawing rectangles appears where the users can choose instead of the first one (Select)
3. Pan: Change your cursor to a pan so you can easily scroll through the report
4. Note: After selecting this options, wherever you click somewhere at the report you create a note
5. Highlight: Change your cursor to a highlighter style to highlight text
6. Highlight dropdown: Choose the option to highlight text by drawing rectangles
7. Color: Select color
8. Color dropdown: Choose among a range of colours
9. Zoom-out: Zoom-out the report
10. Zoom-in: Zoom-in the report
11. Zoom to Fit 1: Fit to width
12. Zoom to Fit 2: Fit to page
13. Sync: Synchronise your changes with Mendeley Web (Mendeley from the browser without the need to install any software)
14. Help: Open the online help guide for Mendeley
15. Search dropdown: Search among Authors, Titles, Year, Notes and Publication names in order to find a specific paper writhing your library
16. Search: Keywords Search
17. Your profile: Go to your Mendeley Profile online

Software: Logic Pro X 10
 Hardware: MacBook Pro, MacOS High Sierra
 Purpose: Create, edit, record audio

Author: Pohjanheimo, Ray
 # Tools: 34

Software: Logic Pro X 10.4.6
 Hardware: Apple MacBook Pro Retina 13-inch 2015, MacOS High Sierra
 Purpose: Create, edit, and record audio

34 tools on Main Control bar

Software: Presonus Studio One 4
 Hardware: Windows 10
 Purpose: Record and edit music

Author: Rauser, Christopher
 # Tools: 50

Parameter
 Arrow Tool
 Range Tool
 Split Tool
 Bend Tool
 Listen Tool
 Quantize
 Macros
 Input quantize
 Toggle Snap
 Toggle Ripple Edit
 Auto Scroll
 Transfers
 Start Page
 Song Page
 Eraser Tool
 Paint Tool
 Info View Tool
 Audio Band
 Mute Tool
 Strip Silence
 Quantize Value
 Time ruler format
 Snap Timebase
 Cursor Follow Edit Position
 Scratch Pad
 View Video
 Project Page

Number of Tools counted: 50

Software: Microsoft word
 Hardware: xxx
 Purpose: Text editing

Author: Jekaterina Belakova
 # Tools: xxx

0. Paste currently copied item
1. Select how to keep the format when pasting
2. See all the copied items
3. Format painter
4. Make font bold
5. Make font italics
6. Put the text underline
7. Select the style of underline
8. Cross text
9. Type small letter below text
10. Type small letter above text
11. Choose text shadow, effects when pasting
12. Make text highlight with yellow color
13. Choose text highlight color
14. Make text red
15. Choose color of text
16. Customize text
17. Align left
18. Align center
19. Align right
20. Justify text
21. Line and paragraph spacing
22. Select options to line and paragraph spacing
23. Change color behind the text
24. Select color for behind the text
25. Put borders
26. List all border options
27. Paragraph settings
28. Type font
29. List all fonts
30. Type font size
31. List font sizes
32. Increase font size
33. -
34. Decrease font size
35. -
36. List options for changing case
37. -
38. Clear all formatting
39. Create a bullet list
40. List different bullet options
41. Create numbered list
42. List all numbered list options
43. Create multilevel list
44. List different multilevel list options
45. Decrease indent
46. Increased indent
47. Arrange in alphabetical order
48. Show paragraph marks
49. Change text style
50. Scroll down through the text styles
51. List more text styles
52. Preview, manage and customize text styles
53. Find text in document
54. List of different find options
55. Search for text and replace it
56. Select text or objects
57. List of different select options
58. Turn on voice dictation
59. List languages for dictation
60. Collapse the menu

Software: xxx
 Hardware: xxx
 Purpose: xxx

Author: Leire Litwin Echevarria
 # Tools: 14

Figure 1. Pages main toolbar

1. **View:** This tool displays a dropdown menu with different view options for the document. Some of the view configurations can be adding a sidebar with the thumbnail, and another one with the content, change the view to document only, show/hide the comments, show/hide the smart annotations, show/hide the rulers in the page, and display the word count.
2. **Zoom:** It changes the zoom (far or close) of the document page. It can also change the page display, to one page or two pages together; it adapts the fit of the page.
3. **Add page:** It adds another page to the document. This tool is disabled unless the cursor is inside the page and when clicking in, the page will be added after the currently selected page.
4. **Insert:** Displays a dropdown menu with some document options to insert. For instance, breaks (page, line, section and column), page count, page number, date and time, footnote, citation, equation, bookmark, and links.
5. **Table:** Opens a modal with different table styles to insert in the page.
6. **Chart:** Opens a modal with several types of graphs. These graphs are divided into categories, by using three tabbed sections: 2D, 3D and interactive.
7. **Text:** Inserts in the document a text box with a predefined placeholder message: "Type to enter text".
8. **Shape:** This tool opens a modal with a set of shapes and some divided into categories. It includes also a search bar to navigate through the set of shapes/colors and a little pencil tool at the top right corner to draw your own shape.
9. **Media:** Displays a dropdown menu with diverse media options to insert: photos, image gallery, movies, music or record audio. As well as, an option to choose any other type of media. It also includes a tool to directly take a photo or scan document if an iPhone is connected to the laptop.
10. **Comment:** Adds a comment to a selected item or in the position where the cursor is inside the page.
11. **Collaborate:** Opens a modal window to share your document in a collaborative way via mail, iOS messages, copy the link of document, airdrop or simulator.
12. **Format:** Changes the tools of the right sidebar to format a selected item in terms of style, text, or layout arrange. The style tab lets the user change the color, the fill, the border and shadow of the item selected. The text tab lets the user change the family font, its style, the size, the alignment and the spacing of the text. The arrange changes the placement of the object, the text wrap, the fit in the page, the size of the object, the rotation and the position within the page. It also has a tool to lock the object in the document.
13. **Document:** Changes the tools of the right sidebar to configure the main document settings of the page (page orientation, size of the paper and document margins), the sections (header and footer) and the bookmarks.
14. **Title:** Edit the title of the document, the tags and the boiler where it is saved on the computer.

Software: Keynote 8.0.1
 Hardware: MacBook Pro, MacOS 10.14.3
 Purpose: Create and edit a presentation

Author: Paula Manzano Izquierdo
 # Tools: xxx

1. **Zoom:** Select the zoom for visualizing the slide in the application.
2. **Display:** Shows the different options for displaying the elements of Keynote in the screen. It includes the option of showing the navigation between slides, or just the slides, showing the slides in a grid or in a schema. In this dropdown the user can select also edit the master slides and show rules, comments, presenter notes, list of object of the slides and search and replace words.
3. **Add slide:** Adds a slide to the presentation.
4. **Keynote Live:** Reproduces the presentation remotely in other device.
5. **Text:** Adds a graph to the slide.
6. **Multimedia:** Adds a multimedia element to the slide. This could be a photo, a photo gallery, a vide or music.
7. **Figure:** Adds a figure to the slide, like arrows, symbols, circles, squares, etc
8. **Table:** Adds a table to the slide.
9. **Graph:** Adds a graph to the slide.
10. **Comment:** Adds a comment to the slide.
11. **Collaborate:** Add more users to the presentation. All of them will see and edit the presentation.
12. **Format:** Edit the format of the slides, like the style, the text or the layout.
13. **Animation:** Adds animations to an element of the slide or a whole slide.
14. **Document:** Settings of the presentation, as the time for transitions between slides or the theme of the slides.

Software: Evernote
 Hardware: xxx
 Purpose: xxx

Author: Razvanilin
 # Tools: xxx

1. **Dropdown list:** choose notebook
2. **Dropdown list:** choose font size
3. **Dropdown list:** choose font color
4. **Prompt:** write new tag
5. **Bold:** make the text bold
6. **Underline:** Underline the text
7. **Italic:** Make the text italic
8. **Highlighter:** highlights the text
9. **Select template:** Opens new window with templates
10. **Code block:** inserts formatted code
11. **Cross:** Crosses the text
12. **Underline:** Underline the text
13. **Italic:** Make the text italic
14. **Unordered list:** inserts unordered list
15. **Code block:** inserts formatted code
16. **Dropdown list:** Select alignment options
17. **Numbered list:** inserts a numbered list
18. **Table:** Opens window with table options for insertion
19. **Dropdown menu:** Show different date options
20. **Google Drive:** adds an attachment from Google Drive
21. **Attachment:** adds an attachment
22. **Decrease indent:** Decreases text indentation
23. **Table:** Opens window with table options for insertion
24. **Text Focus:** Hides all the toolbar options
25. **Repeat command:** Does the same command again
26. **Checkbox:** inserts a checkbox
27. **Audio:** Record and attach audio
28. **Photo:** Take and attach a photo
29. **Divider:** inserts section divider

Exercise #4 – Finding Digital Tools
 Razvan Ilin – razvanilin@gmail.com
 Tool: Evernote

Software: xxx
 Hardware: xxx
 Purpose: xxx

Author: Wesley LAM
 # Tools: xxx

Annotations for Apple Pages toolbar:

- View: pull down menu of different possible views
- Zoom: pull down menu of different zoom sizes
- Add Page: Adds a page when clicked
- Table: choose a table to insert
- Insert: pull down menu of options to insert (example page breaks)
- Chart: choose a chart to insert
- Text: insert a text box on the page
- Shape: choose a shape to insert
- Media: pull down menu to choose different types of media to insert
- Comment: create a comment box on selected text
- Collaborate: open pop-up window to add people to collaborate in the current document
- Format & Document: toggle button to display page formatting options or general document options

Software: Apple Pages
 Hardware: Apple macbook pro macOS Mojave
 Purpose: to create documents and edit text

Software: Active Presenter
 Hardware: xxx
 Purpose: xxx

Author: Blanca Almandoz
 # Tools: 48

Annotations for Active Presenter toolbar (1-48):

1. Paste: pastes whatever item was copied
2. Paste options: displays different ways of copying
3. Cut: cuts the item selected
4. Copy: copies the item selected
5. New slide: provides a new slide
6. Pull down menu: chooses more slides
7. Layout: displays layouts options
8. Reset: reset the slide to the default settings
9. Record screen: displays different options for recording
10. Bold: changes to bold the text selected
11. Italic: changes to italic the text selected
12. Underline: underlines the text selected
13. Color: sets the color that is chosen there
14. Crosses: crosses the text selected
15. Remove format
16. Drop down menu: provides different colors for highlighting the text selected in the colour by default
17. Highlights: highlights the text selected in the colour by default
18. Math options: inserting symbols and helpers to write equations
19. Drop down menu: provides different colors for highlighting the text selected in the colour by default
20. Math options: inserting symbols and helpers to write equations
21. Drop down menu: provides different colors for highlighting the text selected in the colour by default
22. Math options: inserting symbols and helpers to write equations
23. Drop down menu: provides different colors for highlighting the text selected in the colour by default
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25. Drop down menu: provides different colors for highlighting the text selected in the colour by default
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43. Drop down menu: provides different colors for highlighting the text selected in the colour by default
44. Math options: inserting symbols and helpers to write equations
45. Drop down menu: provides different colors for highlighting the text selected in the colour by default
46. Math options: inserting symbols and helpers to write equations
47. Drop down menu: provides different colors for highlighting the text selected in the colour by default
48. Math options: inserting symbols and helpers to write equations

Exercise #6 Cross-Application Tools

Group exercise

1. Find 3-5 tools that are used *across multiple applications*
 For each tool: How similar / dissimilar are they?
 What do they reify?
 Are they polymorphic?
 Are they reusable?
2. Find at least 2 tools that exist *in only one application*
 For each tool: How could it be used in another application?

Homework: send typed exercises to:
 To: mackay@iri.fr; mbi@iri.fr
 Subject: Group # FSI: Ex #5: Cross-App Tools

Exercise #7 Pencil Properties

Group exercise

1. Start with your group's set of pencil ideas.
 List the physical properties of the pencil, e.g. 'rigid', that make the activity possible.
2. For each physical property, list as many uses of that property as you can, e.g., 'prop up a young plant'.

Homework: send typed exercises to:
 To: mackay@iri.fr; mbi@iri.fr
 Subject: Group # FSI: Ex #6: Cross-App Tools

Exercise #8	Finding Structures
Group exercise	
<ol style="list-style-type: none">1. Pick three activities.2. Identify at least five structured ways to organize information for that activity.3. Identify the type of computer structure and what it is for.	
<i>Example:</i>	<i>Activity: Cooking</i>
<i>Shopping list</i>	<i>paired list specify amounts of ingredients</i>
Homework: send typed exercises to:	
To:	<i>mackay@lri.fr; mbl@lri.fr</i>
Subject:	<i>Group # FSI: Ex #7: Finding Structures</i>

Next week:
Send typed class exercises #5, #6 & #7
Send exercise #8: Finding Structures
Plus: Choose a partner
Choose 3 articles for your iMuseum entries
(Enter your choices in the Google Doc)