

Fundamentals of Situated Interaction

Wendy Mackay & Michel Beaudouin-Lafon
14 January 2021

mackay@lri.fr

mbl@lri.fr

This week:

Discuss:

Exercises #3-4

Lecture:

Co-Adaptive Instruments

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

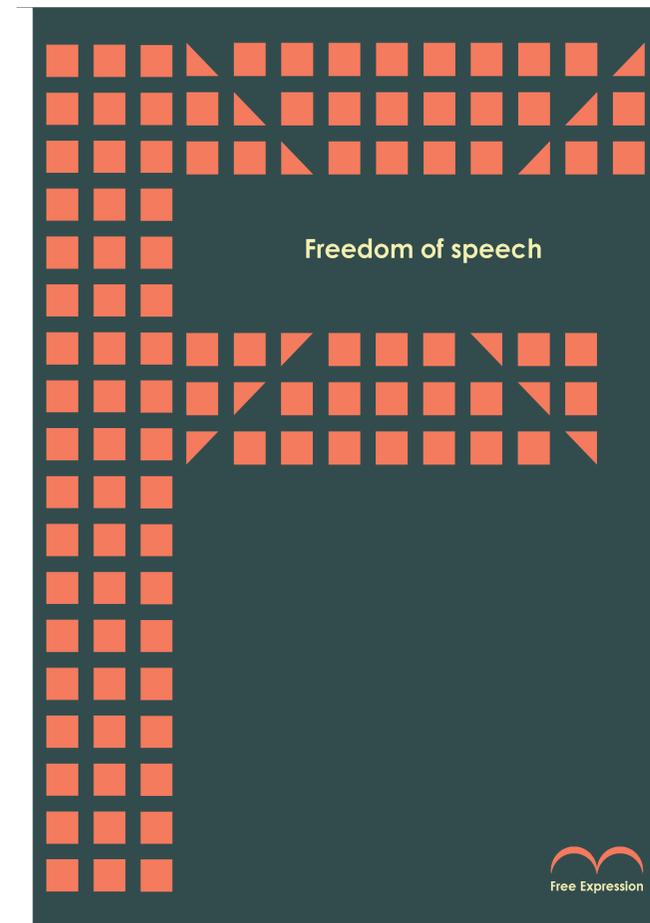
No "rotate" command

Just:

create, copy, paste,

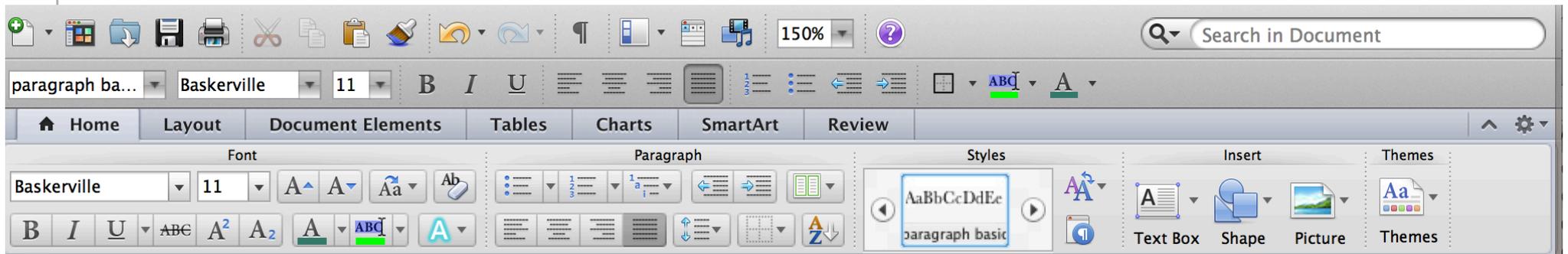
move, resize, and color

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

Exercise #5

Graphical Manipulation Strategies

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

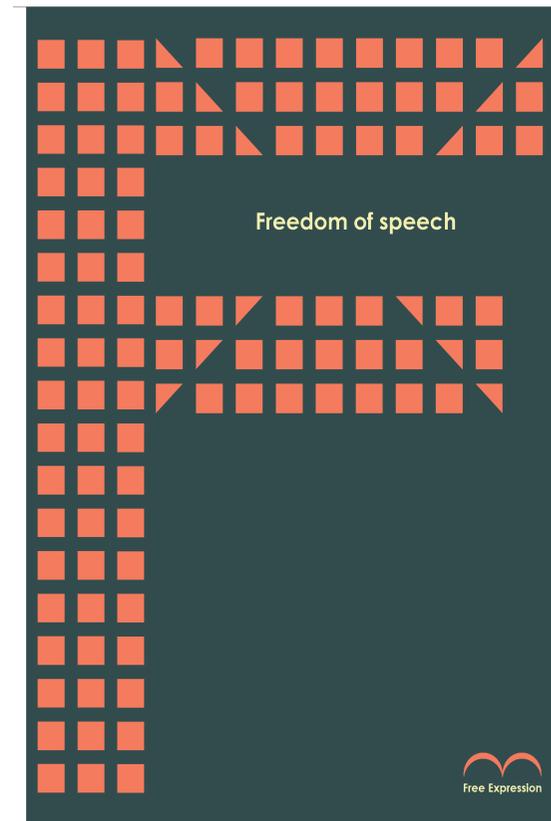
Interviewer B: _____ Interviewee A: _____

Question: _____

Answer: _____

Question: _____

Answer: _____



Exercise #6

Cross-Application Tools

Group exercise (15 + 15 minutes)

1. 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?

2. Find tools that exist *in only one application*

For each tool: How could it be used in another application?

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'.

Next week:

Upload exercises #5, #6, #7

Plus: Create groups of three
Choose 2 articles for your iMuseum entries

Enter your choices in the Google Doc