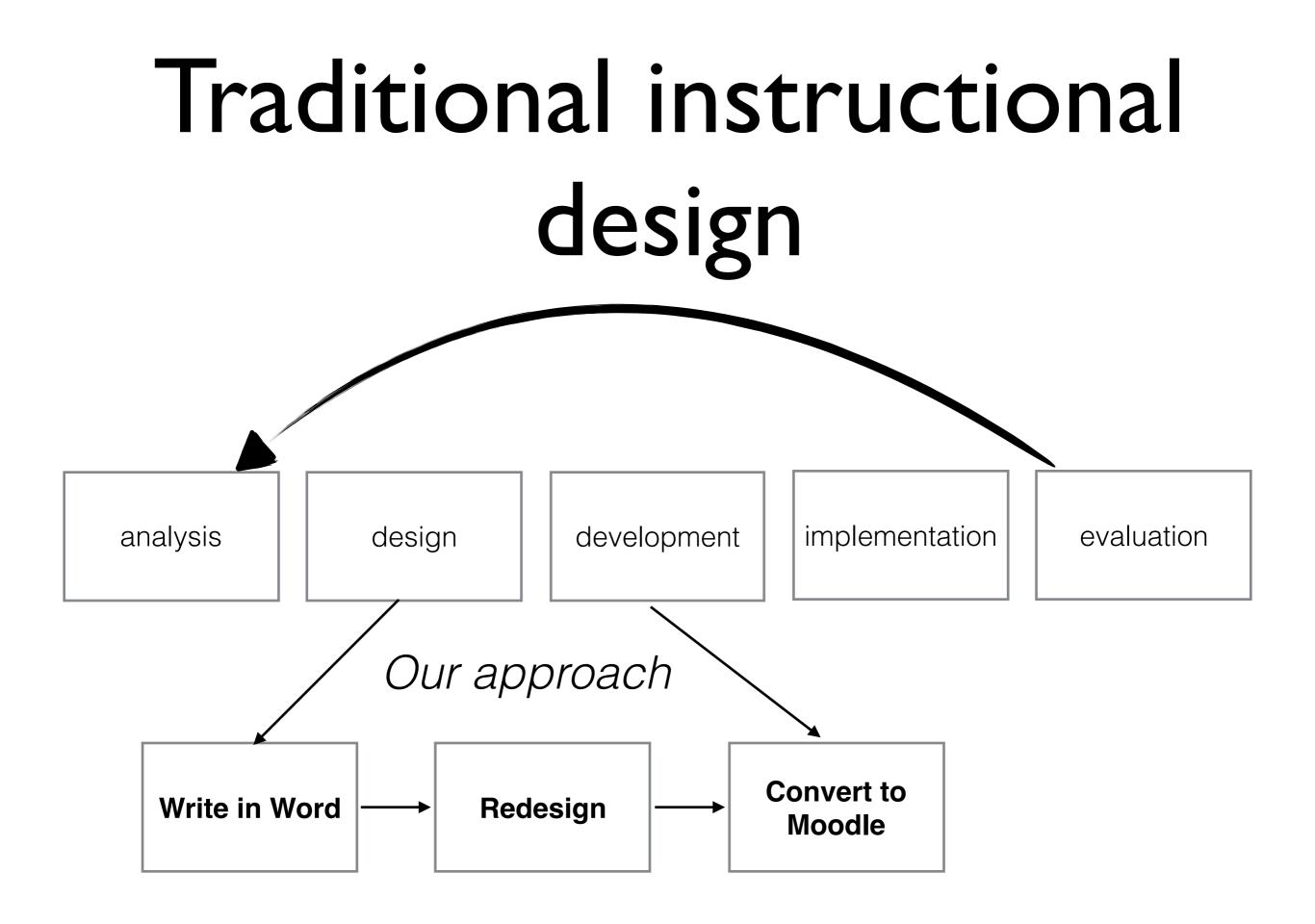
Instructional Bricolage

FST Workshop on Online Teaching, February 2015 Jon Dron







Why would you write a painting?





Well...



Leonardo's version

My Version

More like collage...



Or sometimes



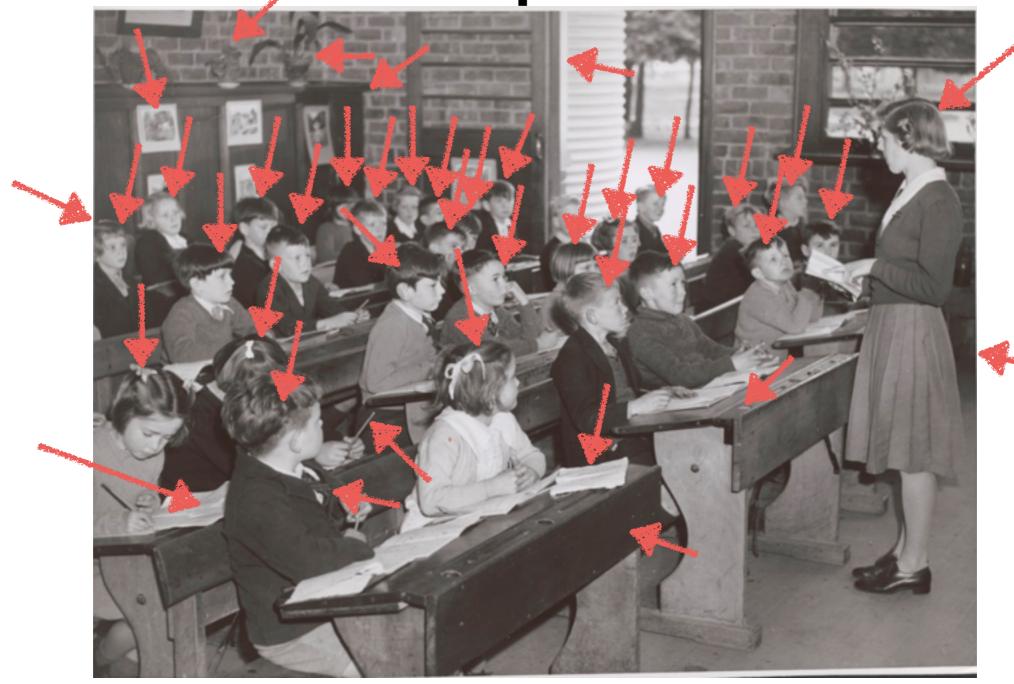
Planned outcomes



How many teachers are there in this picture?



How many teachers are there in this picture?



Learning is about much more than what we intentionally design

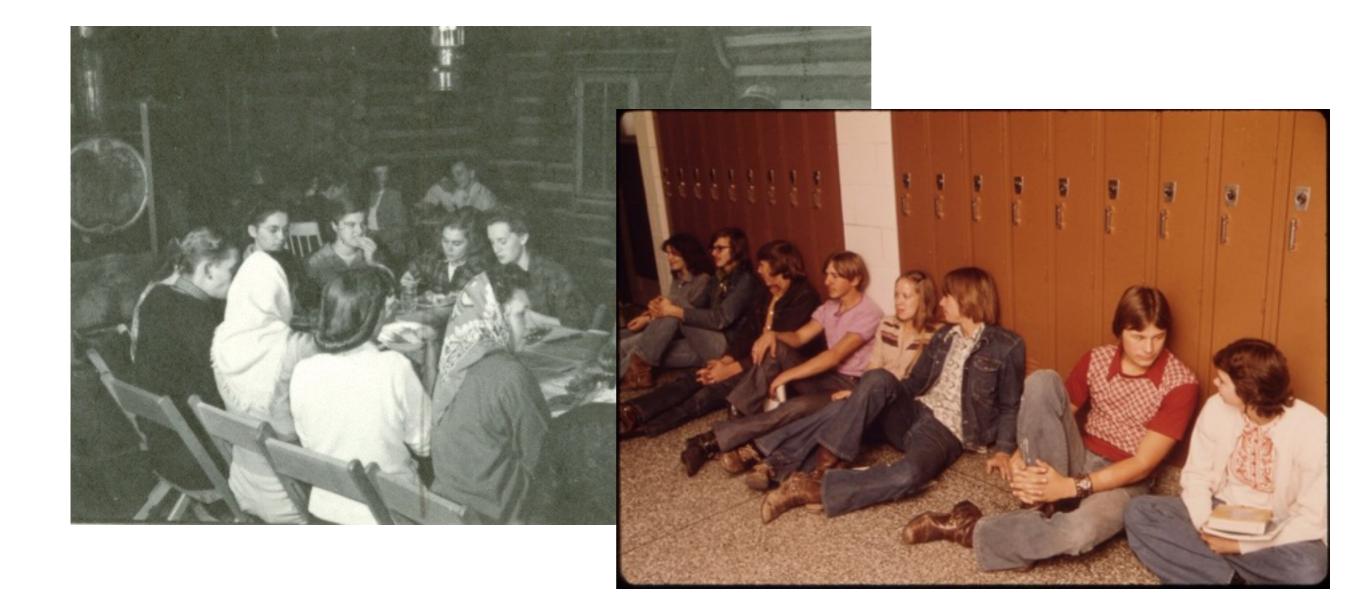


Traditional formal education is about...

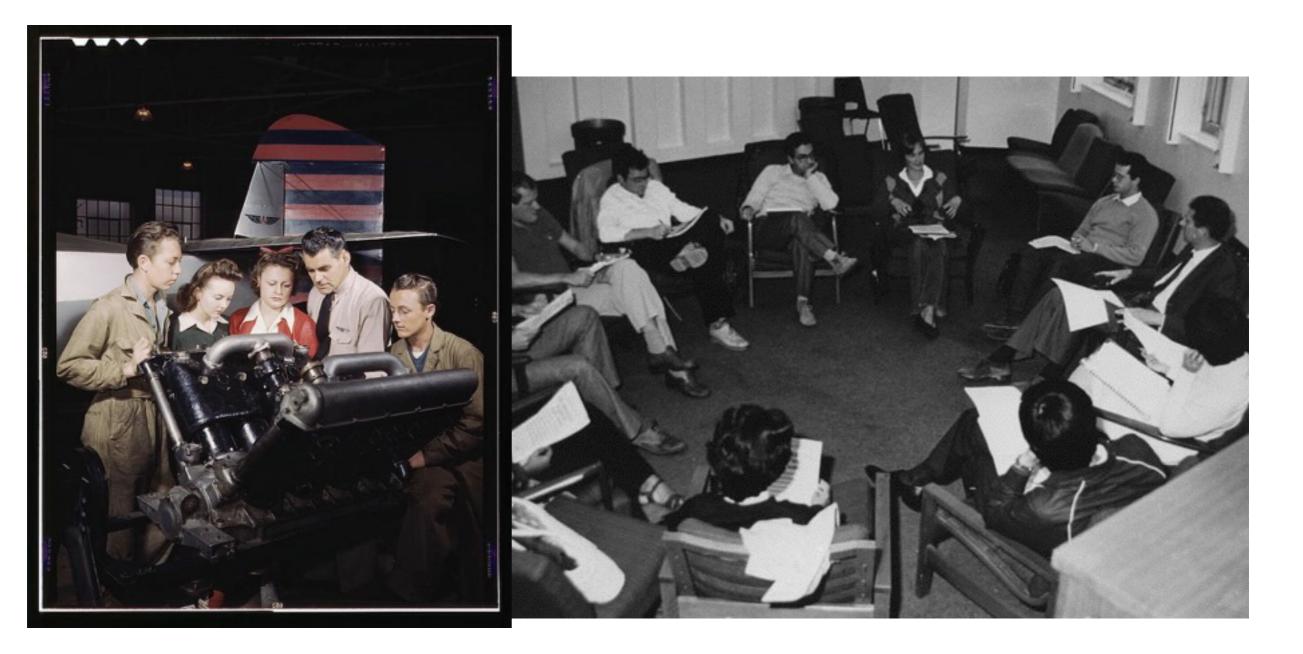
the stuff we are taught



the learning community



people we learn with and from



a culture of learning



exposure to ideas



challenging beliefs



building relationships and connections



being inspired

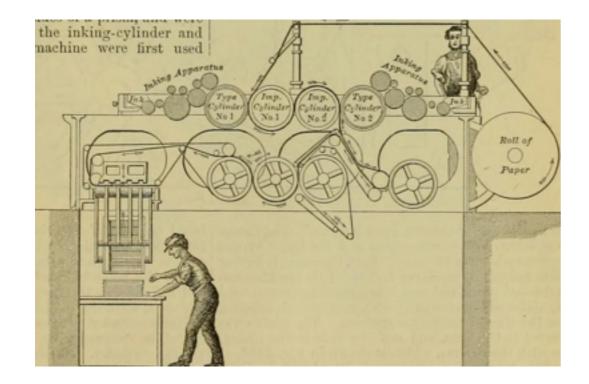




Open, social ,unpredictable, emergent



Another way of thinking about designing



Engineering vs bricolage





technology

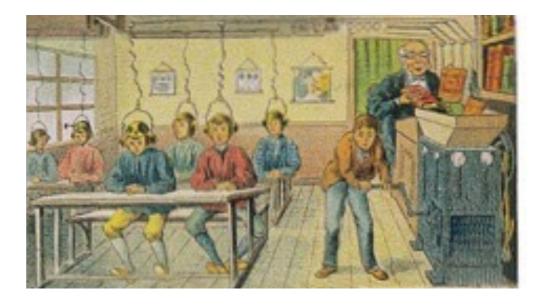
"the orchestration of phenomena for some use"

(W. Brian Arthur)

pedagogies are technologies



learning technologies



where pedagogy is part of the orchestrated assembly



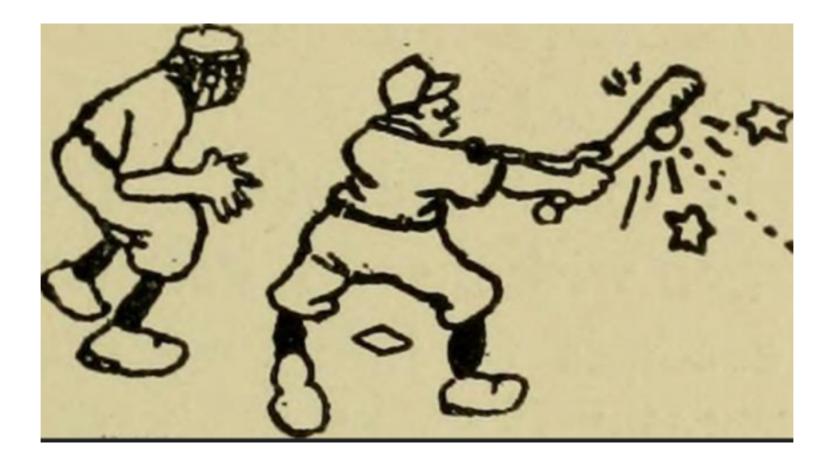
Surfing the adjacent possible



Great exaptations



Reactive design



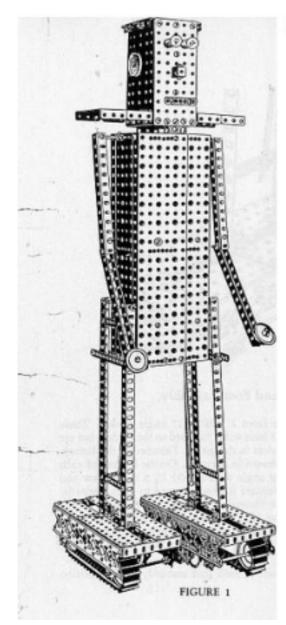
Ten general principles

1.Do not design - just build



http://commons.wikimedia.org/wiki/File:Lego_Color_Bricks.jpg http://creativecommons.org/licenses/by-sa/2.0/deed.en

2. Start with pieces that are fully formed and useful



Models Built with No. 12-1/2 Erector

The Set that Builds the Mysterious Walking Robot

Instructions for Building The Mysterious Walking Robot Model

For many years, scientists all over the world have tried to build a robot or walking man. Now with your 121/2 Erector set or by purchasing enough additional parts to your smaller set, you can build a walking man.

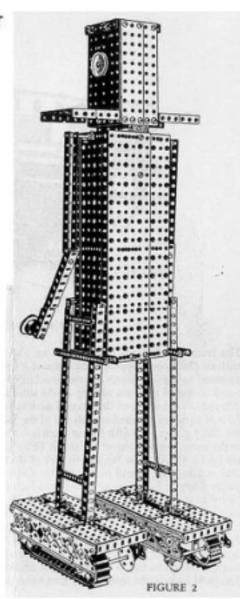
Before starting to build the model you should become familiar with the various Erector parts and methods of assembly. The numbers (CH, AA, C, B, A, etc.,) referred to in this description and on the diagrams are called trade numbers. Trade numbers and pictures of the parts can be found in the index of your Erector manual.

Figure 1 shows the front view of the completed model. Figure 2 shows the rear view of the model. Study these, as well as all the other views very carefully.

As in all construction and model building it is best to start with small assemblies and build up to the final, completed model.

The first sub-assembly to build is shown in Figure 3.

THE A. C. GILBERT CO., NEW HAVEN, CONN., U.S.A.



https://creativecommons.org/licenses/by-nc-nd/2.0/

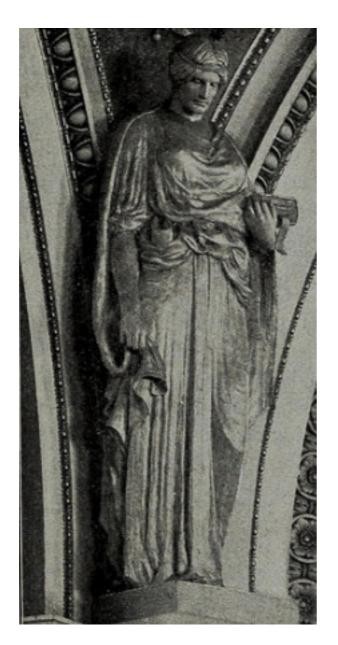
 Surround yourself with quantity and diversity in tools, materials, methods, and perspectives



4. Dabble hard - gain skills, but be suspicious of expertise



5. Look for exaptations and surf the adjacent possible





Avoid schedules and goals, but make time and space for tinkering, and include time for daydreaming

JUNE 12 TIME TABLE 1974							
NORTH BOUND				SOUTH EQUND			
No.	ARRIVE	DEPART	REMARKS	No. A	RRIVE	DEPART	REMARKS
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-			INSSED				PASSED DUIT

7. Do not fear dismantling and starting afresh



Beware of teams, but cultivate networks: seek people, not processes

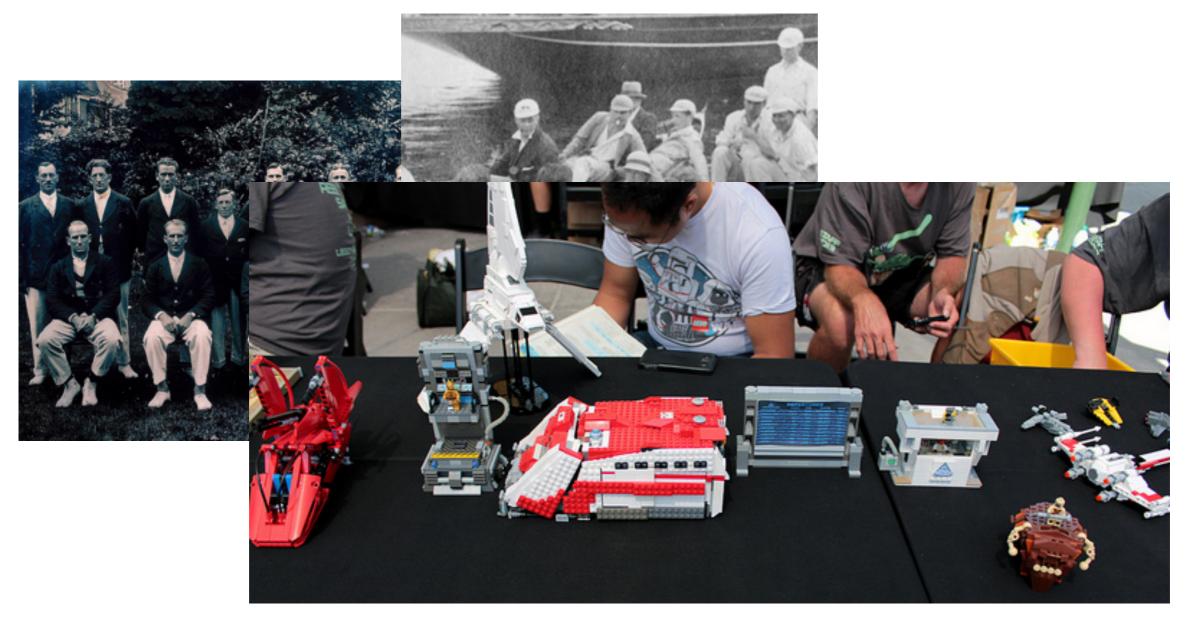


Photo by Ayleen Gaspar https://creativecommons.org/licenses/by/2.0/

9. Talk with your creations and listen to what they have to say

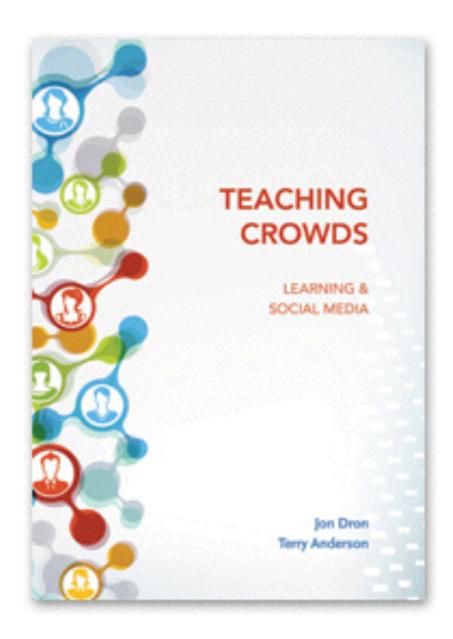


Reflect, and tell stories about your reflections, especially to others



Not for all But maybe for some





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