

Training session on
Active learning and inverted
classroom methods

Murat Yıldızoglu
Bordeaux University
<http://yildizoglu.fr>

Teaching v.s. Learning?

Teaching v.s. Learning?

- ◆ Which adjectives would come to our mind if we observe a typical undergrad classroom in our university?

Teaching v.s. Learning?

- ◆ Which adjectives would come to our mind if we observe in a typical undergrad classroom in our university?
 - ◆ About what is going on in the classroom?

Teaching v.s. Learning?

- ◆ Which adjectives would come to our mind if we observe in a typical undergrad classroom in our university?
 - ◆ About what is going on in the classroom?
 - ◆ or in the minds of the « participating » students?

Teaching v.s. Learning?

- ◆ Does the classroom life look lively, animated?

Teaching v.s. Learning?

- ◆ Do the students look like they
 - ◆ Enjoy the course?
 - ◆ Are energetic?
 - ◆ Participate actively and voluntarily to its flow?



- ◆ Do the students look like they
 - ◆ Enjoy the course?
 - ◆ Are energetic?
 - ◆ Participate actively and voluntarily to its flow?
 - ◆ And, are they really learning something?

But who is in control of this situation?

- ◆ Who is in control of:
 - ❖ The content of the course?
 - ❖ The organisation of the course?
 - ❖ The animation of the course (who is active, and when)?
 - ❖ The competency validation and grading system?

But who is in control of this situation?

- ◆ Who is in control of:
 - ❖ The content of the course?
 - ❖ The organisation of the course?
 - ❖ The animation of the course (who is active, and when)?
 - ❖ The competency validation and grading system?
- ◆ WE, the teachers, and exclusively in many curriculum

But, this does not mean that we are
guilty...

- ◆ Why are we put in front of this classroom, with such a total authority on all of its aspects?

But, this does not mean that we are
guilty...

- ◆ Because we are competent on the « content » of the course, our area of scientific expertise
- ◆ So, our attention is focused on « covering » this content, and we hope that students will « learn » during this process

And we discover quickly that something
is broken, learning does not take place

We discover quickly that learning is not taking place

- ◆ When we start our second year micro/macro/
math/stat... course, on the assumption that the
first year's « content » is already operational in
the minds of our students,

We discover quickly that learning is not taking place

- ◆ When we start our second year micro/macro/
math/stat... course, on the assumption that the
first year's « content » is already operational in
the minds of our students,
- ◆ We discover that not much is left from this course
- ◆ Content quickly learned as an obligation, has
been quickly forgotten...

But we discover quickly that something is broken, learning is not taking place

- ◆ The feeling that we are trying to build a castle on sand fields..
- ◆ A frustrating and demotivating feeling...

But we discover quickly that something is broken, learning is not taking place

- ◆ The feeling that we are trying to build a castle on sand fields..
- ◆ A frustrating and demotivating feeling...
- ◆ That can also motivate us to reflect on what is happening in that classroom...

When do we learn best?

- ◆ Is it when
 - ◆ we **MUST** learn a content chosen by an authority,
 - ◆ who speaks to us for two hours,
 - ◆ and "threatens" us with a failing grade if we do not « learn »?

When do we learn best?

◆ OR



◆ OR?

◆ How can we advance in this direction?

◆ **By giving more autonomy and responsibility to our students**

Accepting to let some control to students over their learning

- ◆ For now their only choice is between
 - ◆ skipping « learning » this course,
 - ◆ or trying to stuff enough elements to get a good grade
- ◆ Not a very motivating choice for them...



More freedom means more responsibility and stronger motivation

- ◆ Given the list of elements controlled by the teacher, we need to share some of this control with the students,
- ◆ So they can get a control on their learning process,
- ◆ Feel responsible for it
- ◆ Be motivated during the class
- ◆ **Learn to learn**, in the best of cases...

Modal and gradual transfer of control



- ◆ Students need to learn this responsibility, they are not prepared for it either
- ◆ We can start by giving motivated choices in a given set of alternatives, carefully selected by us
- ◆ Implement groupwork where they choose to participate to a specific group, and engage their responsibility towards the group
- ◆ We can give them an active role in learning, converting it to learning-by-doing, when the topic is compatible with experimenting
- ◆ We can even discuss grade system and modalities with them, and give them a set of modalities in which they can choose several to validate their learning

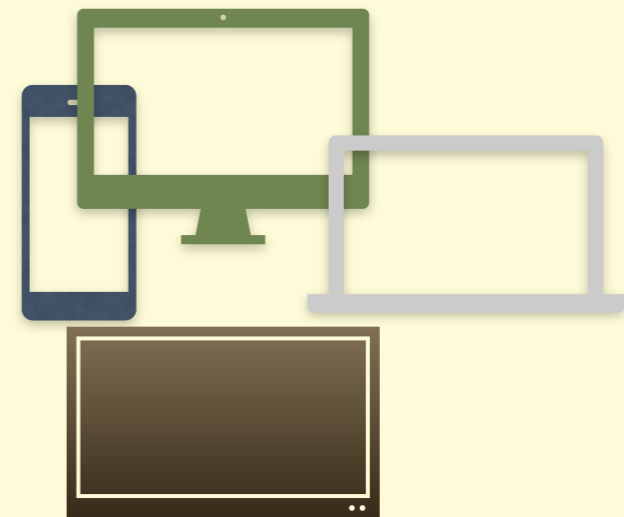
Also, a variety of modes of
access to knowledge

Also, a variety of modes of access to knowledge

- ◆ This old question of student engagement
- ◆ has become even harder now
- ◆ that traditional courses are competing for attention and engagement

Also, a variety of modes of access to knowledge

- ◆ This old question of student engagement
- ◆ has become even harder now
- ◆ that traditional courses are competing for attention and engagement
- ◆ with **multiple screens**



With some paradoxes...

BUSINESS INSIDER

A new study shows that students learn way more effectively from print textbooks than screens

15/10/2017 9:31 PM

Patricia A. Alexander and Lauren M. Singer, The Conversation

A variety of modes of access to knowledge



There is no best way...

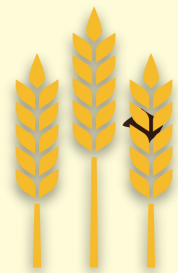


- ◆ The actual strategy will depend on **us**, our objectives, and on the initial maturity of students
- ◆ The ideal configuration is of course when this strategy is shared by all our pairs
- ◆ But we cannot wait for it, one way of convincing them, is showing how well it works
- ◆ And how much we enjoy our new role **as a guide to students' learning**, rather than as the blanket that « covers » a program...
- ◆ We can start small, let the students learn to appreciate to being in charge (they will resist first)

Two low-cost examples of active learning tools



Session 1: Learning-by-exchanging, a small apple market



Session 2: The pleasure of groupwork.
Exploring a new topic using the group intelligence.