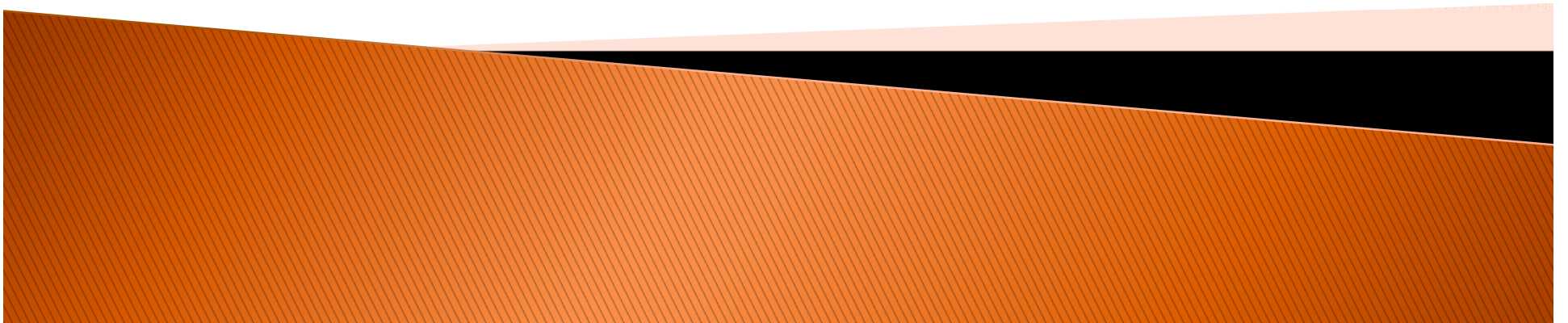


The Flipped Classroom

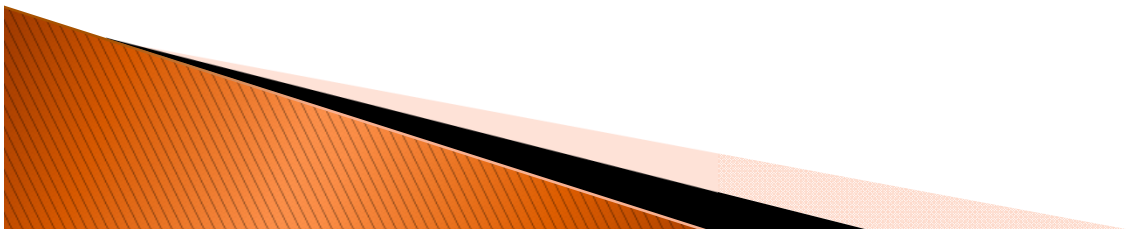
Mark DuBois
and
Kelly Crawford-Jones



What is it?



<http://markdubois.me/FlippedVideo>

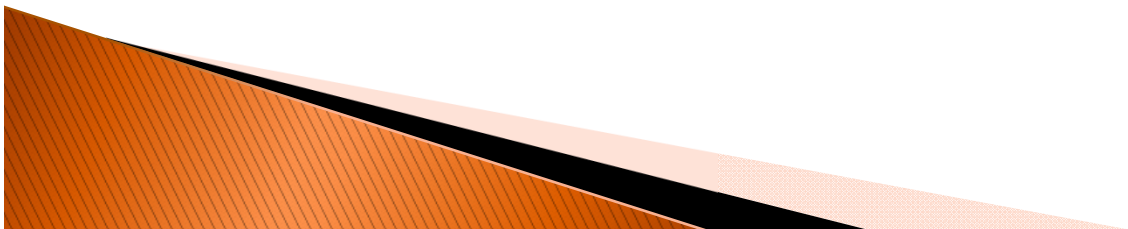


Why is it important?



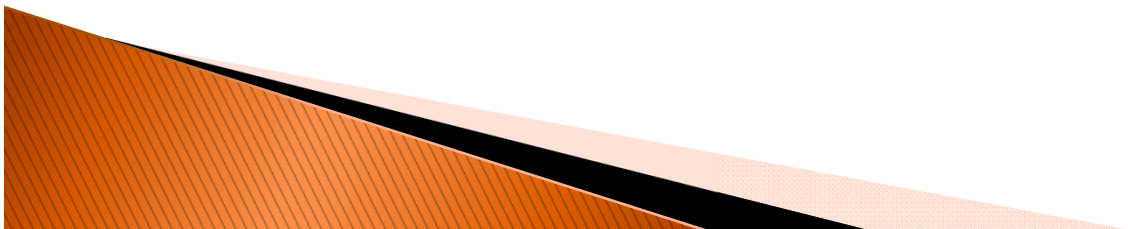
- Its about students becoming independent learners.
- Its about having more time to problem solve with your students.
- Its about radically changing the way we teach.

▶ <http://markdubois.me/FlippedVideo2>



Where are Flipped Classes being Taught?

- ▶ Primary Schools
- ▶ Secondary Schools
- ▶ Community colleges
- ▶ Universities
- ▶ Private schools



The Flipped Classroom is Not:

- ▶ <http://markdubois.me/FlippedVideo3>



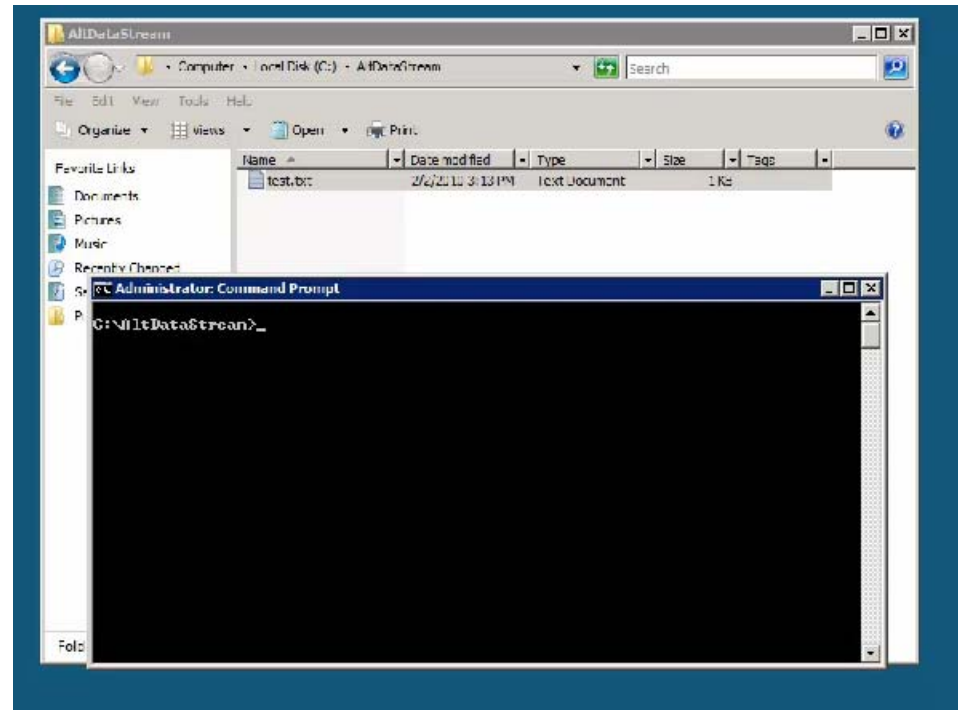
How?

- ▶ <http://markdubois.me/FlippedVideo4>



Examples in practice

- ▶ ICC CMNET 250 – Advanced Security Topics
- ▶ <http://markdubois.me/FlippedVideo5>
- ▶ One of many topics to be viewed before we meet



Examples in Practice

- ▶ In Class Exercise (PowerShell)
- ▶ <http://markdubois.me/FlippedLab1>

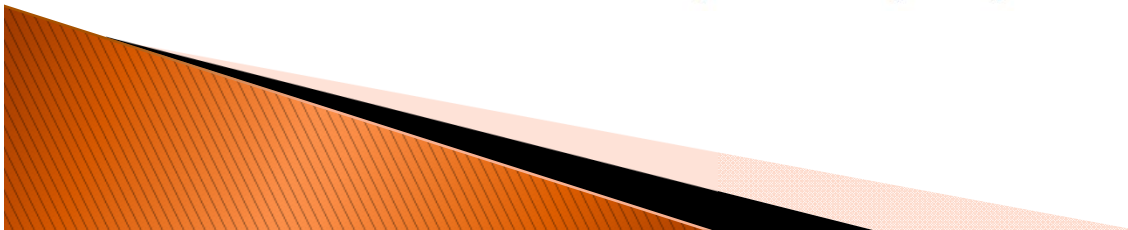


```
result1.txt - Notepad
File Edit Format View Help

Directory: C:\windows\system

Mode                LastwriteTime        Length Name
----                -
-a---              11/2/2006   2:10 AM      32816 COMMDLG.DLL
-a---              9/18/2006   4:43 PM       9936 lzexpand.dll
-a---              11/2/2006   2:10 AM      68992 MMSYSTEM.DLL
-a---              9/18/2006   4:43 PM      82944 olecli.dll
-a---              11/2/2006   2:10 AM      24064 OLESVR.DLL
-a---              11/2/2006   2:10 AM       5120 SHELL.DLL
-a---              9/18/2006   4:43 PM       9008 ver.dll
```

dir *.dll | Sort-Object | Out-File c:\scripts\result1.txt



Educause Article

- ▶ Good reference
- ▶ <http://markdubois.me/Flipped2>



Scenario

For the past two weeks, Kyle has been taking a flipped course in designing food gardens. Before he attends each class, he watches videos of short lectures recorded or recommended by his instructor. Each lecture comes with a brief online quiz that offers him immediate feedback on whether he missed any essential points. Today as he enters class, he glances at the schedule on the whiteboard. For the first half hour, teams will discuss how the content of the video lectures on microclimates, insect predation, and

1 What is it?

The flipped classroom is a pedagogical model in which the typical lecture and homework elements of a course are reversed. Short video lectures are viewed by students at home before the class session, while in-class time is devoted to exercises, projects, or discussions. The video lecture is often seen as the key ingredient in the flipped approach, such lectures being either created by the instructor and posted online or selected from an online repository. While a prerecorded lecture could certainly be a podcast or other audio format, the ease with which video can be accessed and viewed today has made it so ubiquitous that the flipped model has come to be identified with it.

Assessment

- ▶ Your turn
- ▶ <http://markdubois.me/Flipped3>



Flipped Classroom Self-Assessment

The "flipped" classroom is a pedagogical model in which the :

- Lecture is given in class and then homework is assigned.
- Lecture and homework are reversed.
- Lecture is delivered by the students.
- No lecture is given, but self-assessment tools are used.

The flipped classroom is:

- A specific model that cannot be altered or the concept will fail.
- Designed so that all lectures are never delivered in the classroom and all the exercises are done in the classroom.
- A widely used description of a course design where lectures are pre-recorded and watched outside of class followed by in-class exercises.
- A description of a course that begins with the end and ends with the beginning.

Discussion

- ▶ Flipped classes
 - What is it?
 - How does it work?
 - Who is doing it?
 - Why is it significant?
 - What are the downsides?
 - Where is it going?

