renewing teaching & learning...

leveraging mobility for student engagement

Dr William Rankin
Honors College Fellow
Abilene Christian University

NU 2012 Conference
Göteborg, Sverige • 18 Oct 2012
## Twelfth Census of the United States

### Schedule No. 1 - Population

**State:** [Blank]

**County:** [Blank]

**Township or other division of county:** [Blank]

**Name of Institution:** [Blank]

**Name of incorporated city, town, or village:** [Blank]

**Enumerated by me on the ___ day of June, 1900, by [Name].

<table>
<thead>
<tr>
<th>Location</th>
<th>Name</th>
<th>Relation</th>
<th>Personal Description</th>
<th>Nativity</th>
<th>Citizenship</th>
<th>Occupation, Trade, or Profession</th>
<th>Education</th>
<th>Owned by Whom</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Henry</td>
<td>husband</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>2</td>
<td>Emma</td>
<td>wife</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>3</td>
<td>James</td>
<td>son</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>4</td>
<td>John</td>
<td>son</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>5</td>
<td>Joseph</td>
<td>son</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>6</td>
<td>Mary</td>
<td>daughter</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>7</td>
<td>Robert</td>
<td>son</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
<tr>
<td>8</td>
<td>Sarah</td>
<td>daughter</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
<td>[Details]</td>
</tr>
</tbody>
</table>

Note: Surnames vary and are not continuous.
connection
connection

structural

social

cultural
are our classrooms offering productive connections?
Marshall McLuhan

*The Gutenberg Galaxy* 1962
*Understanding Media* 1964
*The Medium is the Message* 1967
technologies are extensions of the self

“We’re always living way ahead of our thinking…”
“canon” by FunTwo
the new production studios
Library of Congress
media libraries

Flickr

Instagram
Facebook
pompeii

photo courtesy of Wikimedia
pompeii

photo courtesy of Wikimedia
Crystal structure of a monomeric retroviral protease solved by protein folding game players

Firas Khatib¹, Frank DiMaio¹, Foldit Contenders Group, Foldit Void Crushers Group, Seth Cooper², Maciej Kuzmiczyk³, Miroslaw Gilska³, Szumon Krzywda³, Helena Zabranska³, Iva Pichova³, James Thompson¹, Zoran Popovic³, Mariusz Ieskilski¹,²,³ & David Baker¹,⁰

Following the failure of a wide range of attempts to solve the crystal structure of M-PMV retroviral protease by molecular replacement, we challenged players of the protein folding game Foldit to produce accurate models of the protein. Remarkably, Foldit players were able to generate models of sufficient quality for molecular replacement and subsequent structure refinement to infer the crystal structure of the protease. This success suggests that Foldit servers could be an effective tool for solving crystal structures of proteins for which classical methods have failed. However, the Foldit system is not a substitute for crystallography but can be used to predict the structures of proteins whose crystal structures are unknown. This finding has important implications for the study of protein structure and function.
curing AIDS...
communal creation…
communal creation…
participative authority...
participative authority…

more access yields more participation
participative authority...

1. More access yields more participation
2. More participation yields more custodianship
participative authority...

1. more access yields more participation
2. more participation yields more custodianship
3. more custodianship yields more diversity
participative authority...

1. More access yields more participation.

2. More participation yields more custodianship.

3. More custodianship yields more diversity.

4. More diversity yields more access.
participative authority...

1. More access yields more participation.
2. More participation yields more custodianship.
3. More custodianship yields more diversity.
4. More diversity yields more access.
a widening gap...

photo courtesy of the US Geological Survey
Charles Eames

Eames Chair 1946
IBM Pavilion, NY World’s Fair 1964
“Powers of Ten” 1977
Charles Eames
Design is a plan for arranging elements in such a way as best to accomplish a particular purpose…

— Charles Eames
isolated spaces designed for rhetorical questions

photo by Emory Maiden
\[ \frac{4}{6+x} = \frac{-3x-14}{x(x+2)} \]

\[ f(x) = \frac{2}{5-x} \]
simulated answers...
those questions presume a static world...
“Never again is someone going to pay you to give them answers they can look up online. They’ll only pay you to solve problems that don’t yet have answers.”
classroom structure

control

isolation
the standard model...

my desk
the standard model... their desk
5,000 hours
50 hours ×
25 students ×
4 courses
banning tools
a changing formula...
ingenuity
a changing formula...

research  collaboration  
context  technology

\[
\left( \frac{r + c}{x} \right)^t = \text{ingenuity}
\]
a changing formula...

\[
\left( \frac{r + c}{x} \right)^t = \text{cheating}
\]
a changing formula...

\[
\left( \frac{r + c}{x} \right)^t = research \quad collaboration
\]

\[
\left( \frac{r + c}{x} \right)^t = context \quad technology
\]
antiquated paradigms...
the future...
does portability
equal mobility?
portability v. mobility...

carriable  unplugged  long-term  unwired  unsituated
mobile learning?  empowerment?
expectations for students...
expectations for students...

attendance compliance uniformity
monocultures...
why 1-to-1?
more facets…
karl marx
“From each according to his ability to each according to his need...”
We go to the moon [...] and do these other things, not because they are easy, but because they are hard, because that goal will serve to organize and measure the best of our energies and skills...
think
create
publish
think

create

publish

what should your community produce?
think
create
publish

how should your community produce?
where should your community produce?
iReporters making a difference

You don't have to be a celebrity activist like Demi Moore or Ashton Kutcher to make a difference in the fight to end slavery. Meet three iReporters who are doing their part.

iReporters take a stand against slavery

From Kenya to the United States, iReporters prove one person can make a difference in the fight to end slavery.

About this project

This year CNN will join the fight to end modern-day slavery and shine a spotlight on the horrors of modern-day slavery, amplify the voices of the victims, highlight success stories and help unravel the complicated tangle of criminal enterprises trading in human life. A PROBLEM THAT CAN'T BE IGNORED | MORE ABOUT THE PROJECT

Nepal's Stolen Children

Actress Demi Moore partners with CNN Freedom Project for a

July 22nd, 2011

08:00 AM ET

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the future...
faculty students community
faculty students community
a new paradigm...
a new paradigm...

connection
connection
connection
connection
connection
a new model...

linearity
isolation
hierarchy
simulation
a new model...

recursivity
connection
community
engagement
the new classroom...
thank you.