STEAMHAMLET™

A Transformative Situated Inquiry
by Bryan P. Sanders ©2016

Why don't we respond to the people in the room and co-construct the curriculum?

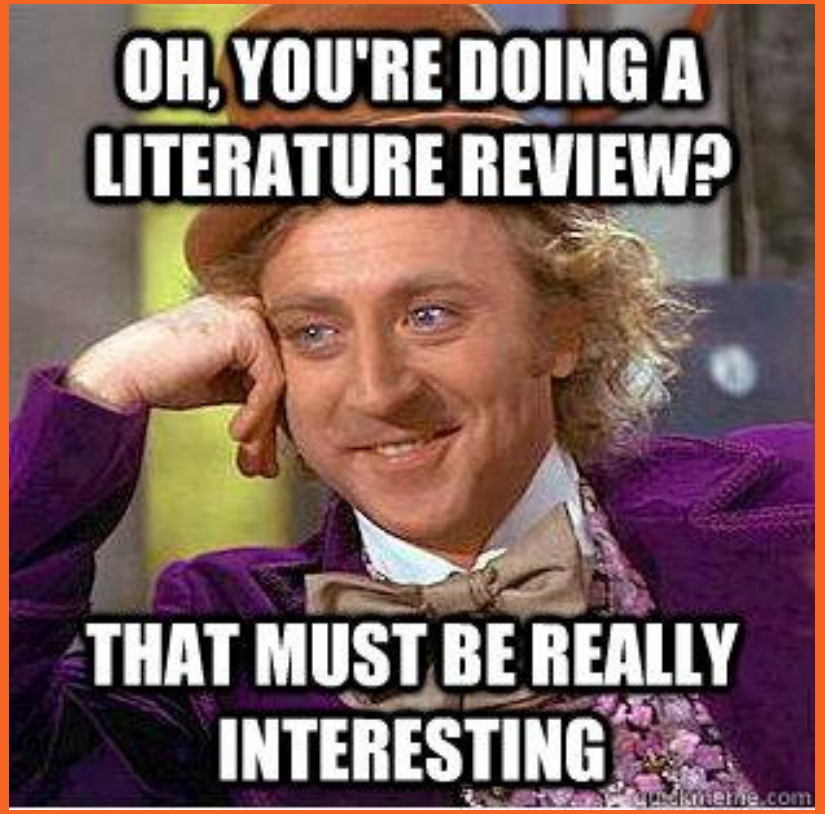
Reflection

I didn't expect to become part of the **problem** by doing what my principal told me to do, though I also didn't always know and trust that I had a **voice**.

How can culturally responsive computing disrupt traditional K20 schooling?

And the literature says . . . .

drum roll



Computers cannot make good learning, but students can use computers to make good learning.

Many people are interested in disrupting the status quo but don’t know just how to go about doing that.

In order to conduct research I will have to actually show up in person and speak to teachers, administrators, and students.

I will also ask for permission to allow students to use my new software product as a pilot study. I will track and study their movements within the software, and also interview them afterwards.

With pre- and post-testing evidence, I can see how my data collection connects to my research question.

I learned a few things about myself along the way

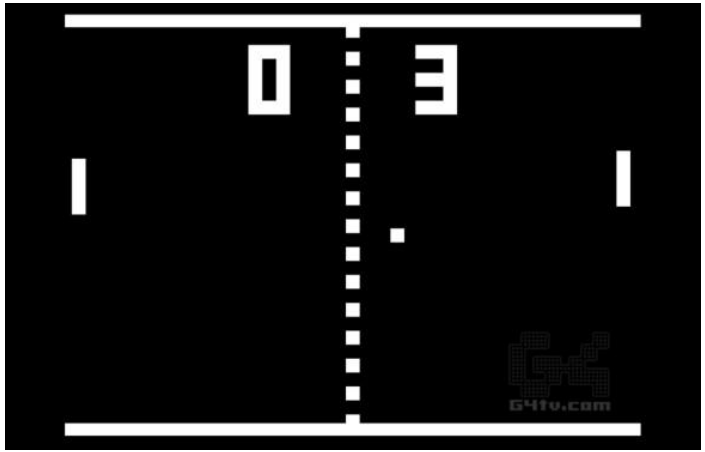
20 years later and all of these things fit in your pocket.

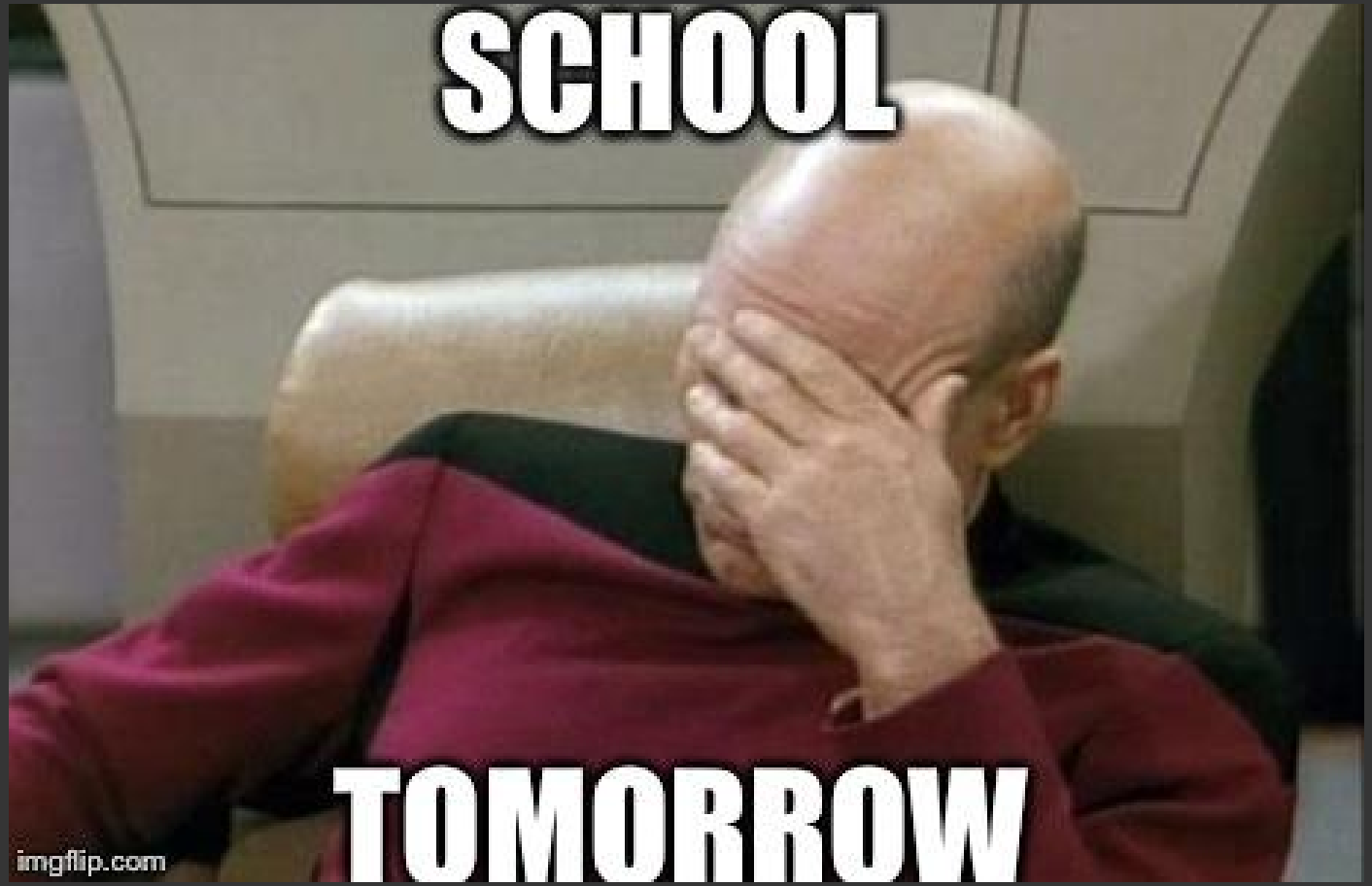
When you tap your pockets
and you can't feel your phone

AND THEN I TOLD THEM
SOCIAL ENTREPRENEURSHIP CAN CHANGE THE WORLD

It's A Big Big Big Mess

You already know about how schools are flawed and the system is corrupt and that people you may not respect make decisions about policies and laws that govern what you do and say, so how about you just read this slide, pinch yourself, remember that you're alive, wonder if Bryan is going to mention this slide, or if it is part of some elaborate hoax, and then you just keep listening to him ramble on about something.




SCHOOL
TOMORROW
imgflip.com

So what am I going to do. . . ?

Study the History	• Computer Science in Education • Critical Theory in Education
Develop a Theory	• Transformation out of the status quo • Construction instead of Instruction
Build a Prototype	• STEAMHAMLET will come to life! • Science plus theory plus pedagogy
Pilot the Program	• Work with students • Further develop program with their input

Many schools put on their website a desire to engage in the whole person and to include everyone while nurturing their individualized education.

LIP SERVICE!

ONE DOES NOT
SIMPLY
INTEGRATE CRITICAL THEORY INTO THEIR
WRITING
memegenerator.net

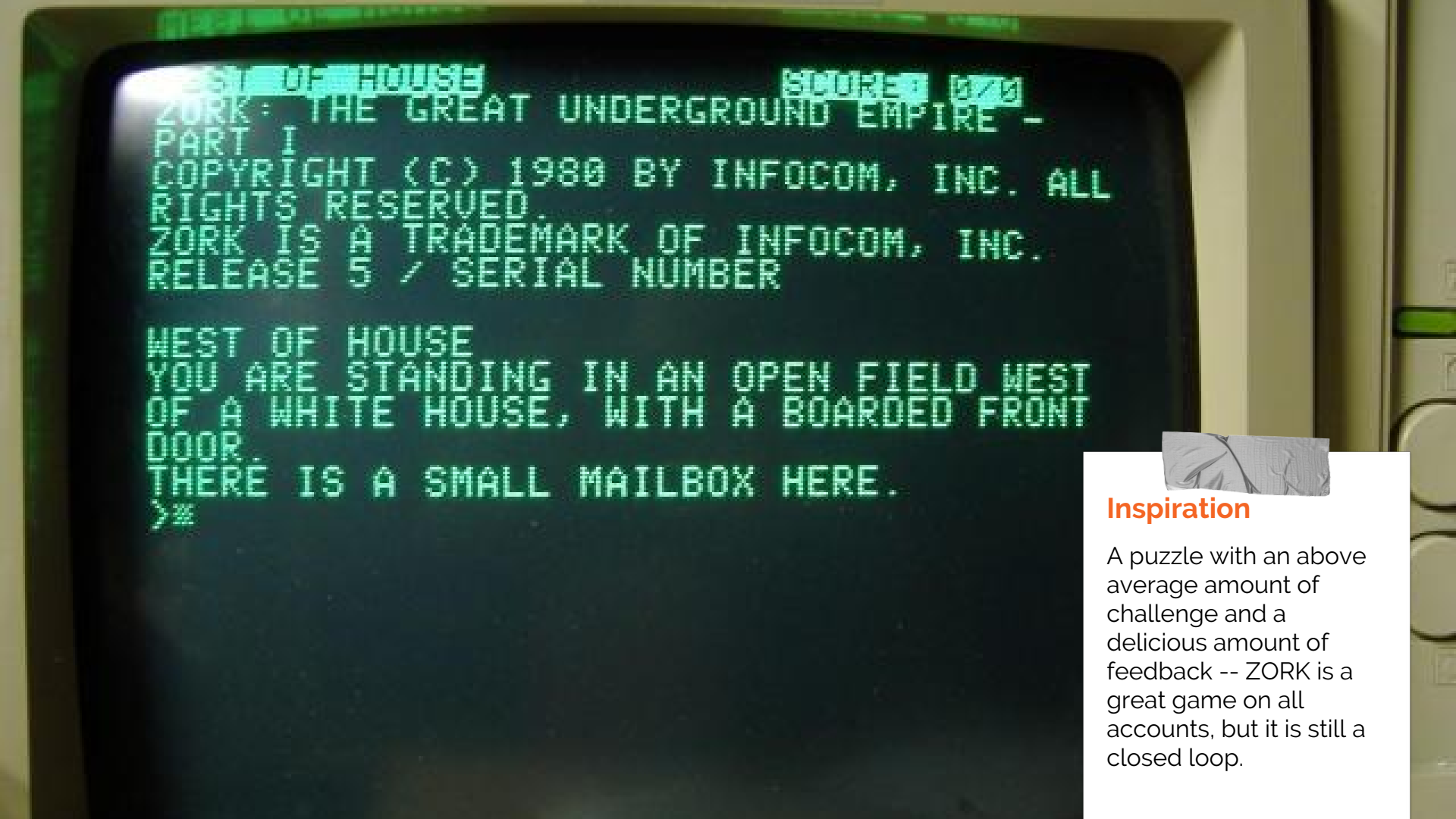
Looking ahead

My work focuses on intersections among possibilities with critical theory, open dialogue, cultural responsiveness, educational software, social justice work, and disrupting traditional K20 schooling :

- **Mega Collaborate**
  All knowledge from all oral and written histories/herstories and all time and space together
- **Invent**
  Purposefully engaging in problems and questions and imaginations

Ancient Egypt

Lots of information, though certainly written by the ‘victors of history’ and you had to actually go to Alexandria and be within the correct demographic to read any of the papyri.



Inspiration

A puzzle with an above average amount of challenge and a delicious amount of feedback -- ZORK is a great game on all accounts, but it is still a closed loop.

I am going to build an educational software product that looks into the impossible.

STEAM has momentum but where is HAMLET?

Dream Big

Microsoft's chatbot was a big next step and it taught us that we need to find ways to adapt to the user input without sacrificing the integrity of the project.

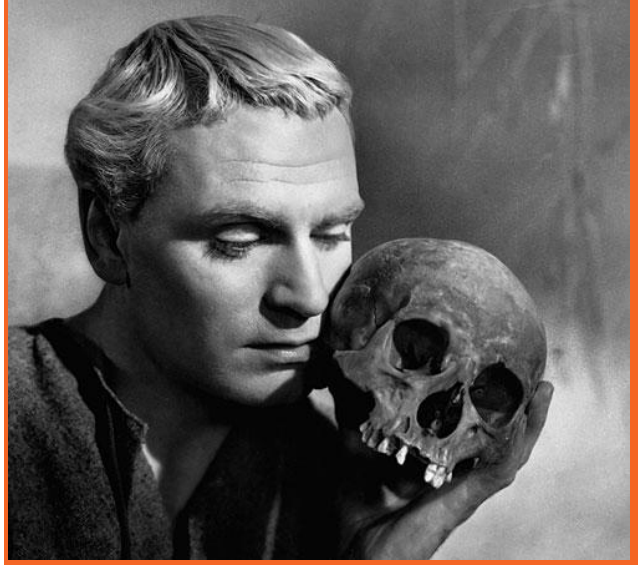
Science, **T**echnology,

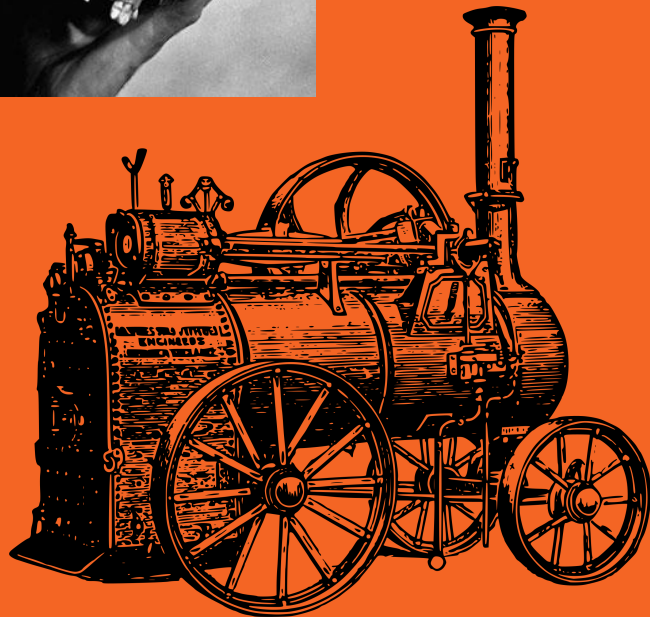
Engineering, **A**rt,

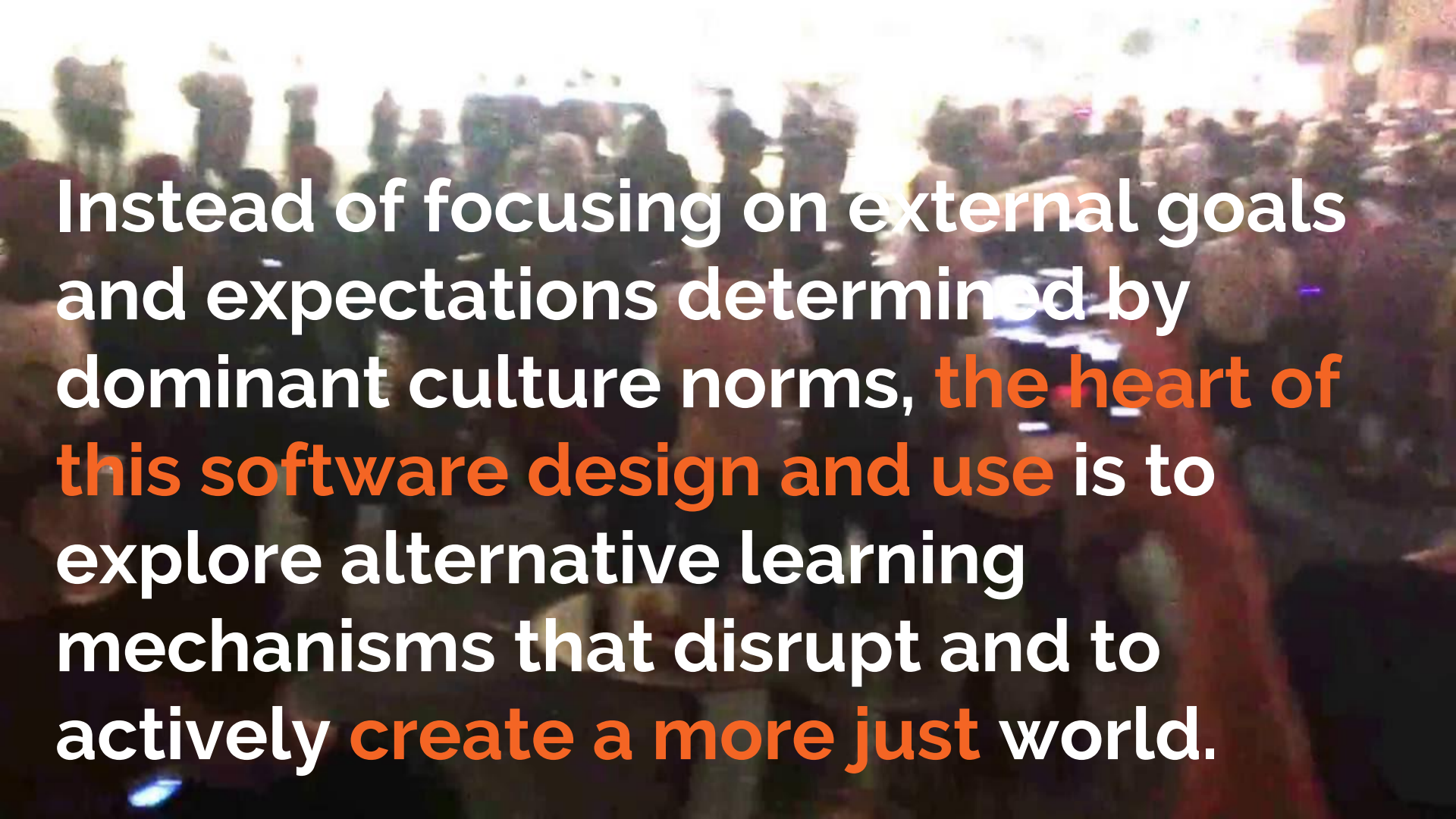
Mathematics, **H**istory, **A**rt,

Music, **L**anguage, **E**nglish,

Theater = STEAMHAMLET.






Instead of focusing on external goals and expectations determined by dominant culture norms, the heart of this software design and use is to explore alternative learning mechanisms that disrupt and to actively create a more just world.