The Help Group SUMMIT 2017

LITERACY IN THE DIGITAL AGE:
SUPPORTING AND ENGAGING ADOLESCENTS WITH LEARNING DISABILTIES

Penelope Collins, Ph.D.

UCI University of California, Irvine

Adolescence, a time of …

- Growing autonomy
- Exploration
- Creating identity
- Developing sense of competence

Adolescence, a time of …

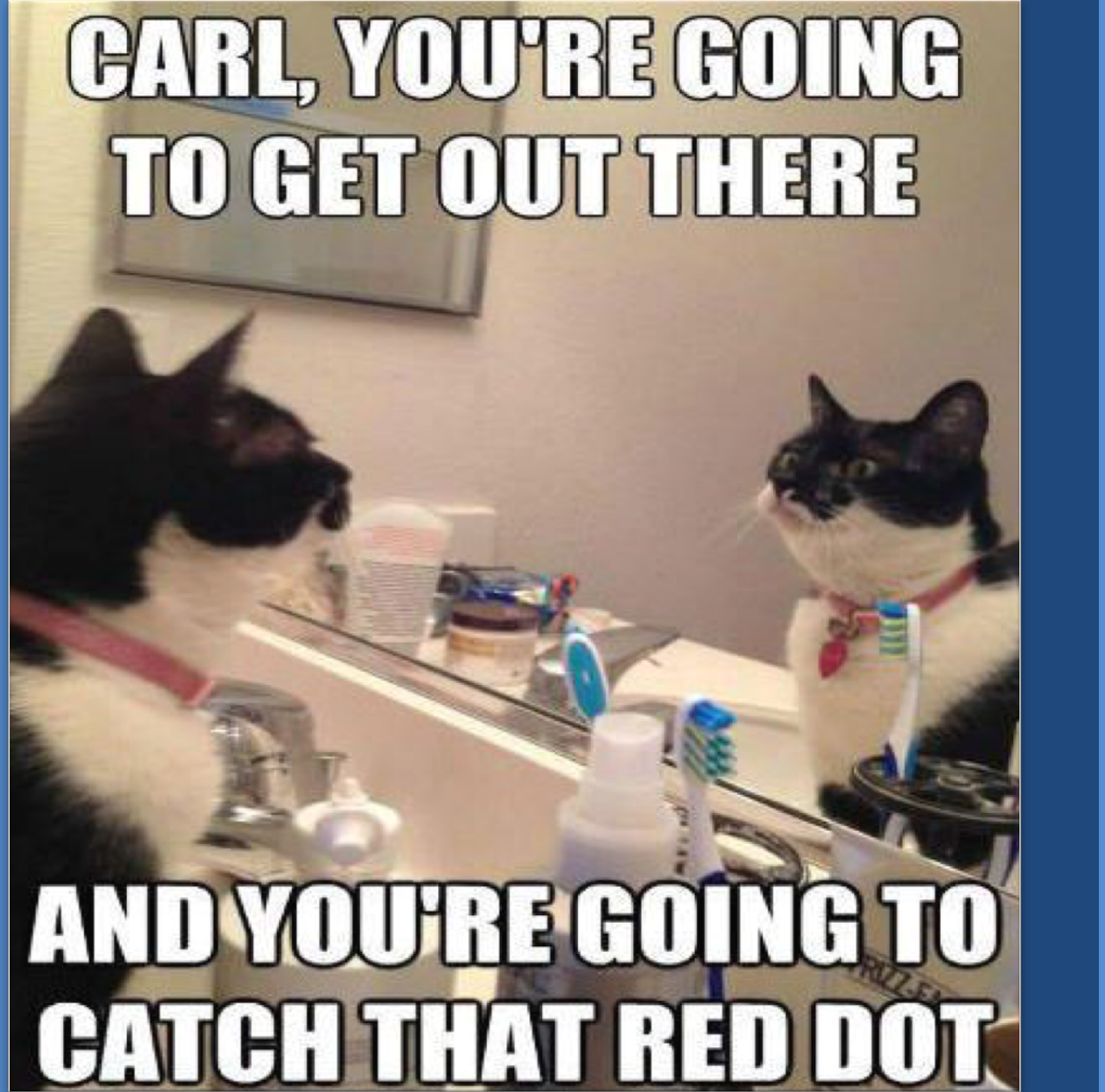
- Stress
- Challenge

What about adolescents with learning disabilities?

MOTIVATION

What is it?

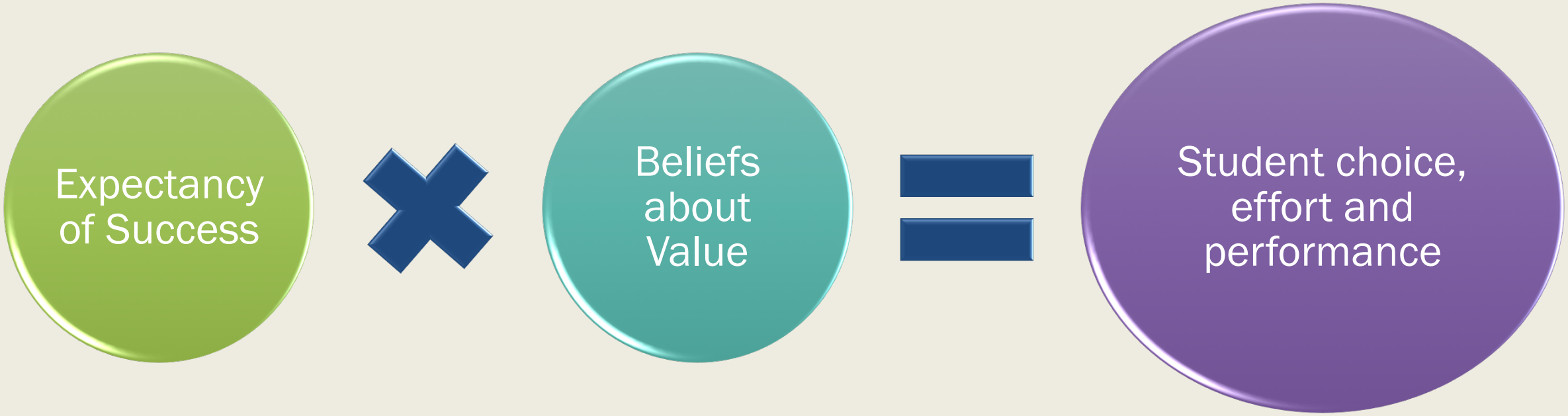
Attitude is a little thing that makes a big difference.
- Author Unknown


CARL, YOU'RE GOING TO GET OUT THERE
AND YOU'RE GOING TO CATCH THAT RED DOT

Motivation

The process that initiates, guides, and maintains goal-oriented behavior

Expectancy Value Theory of Motivation



(Wigfield & Eccles, 2000)

What contributes to

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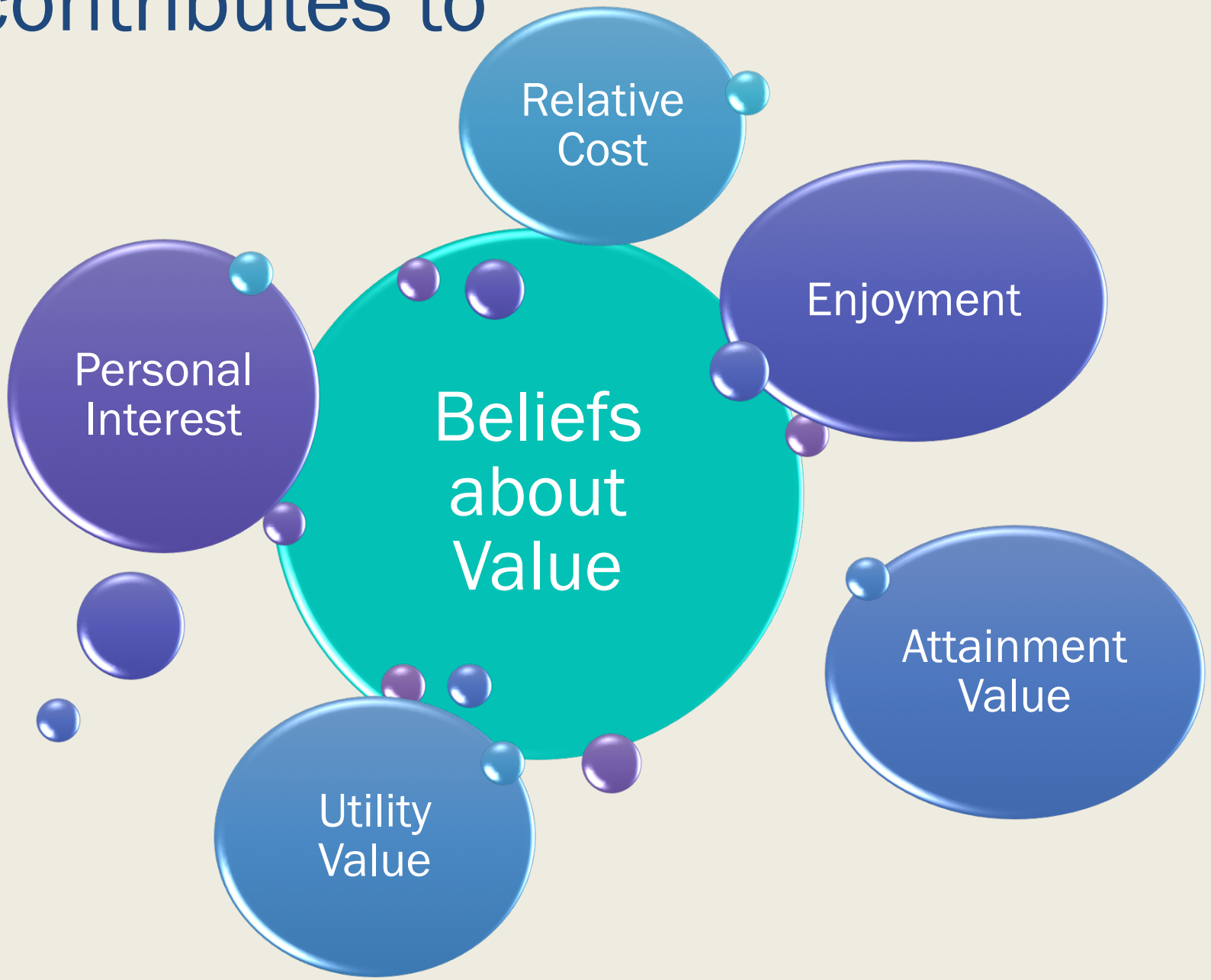
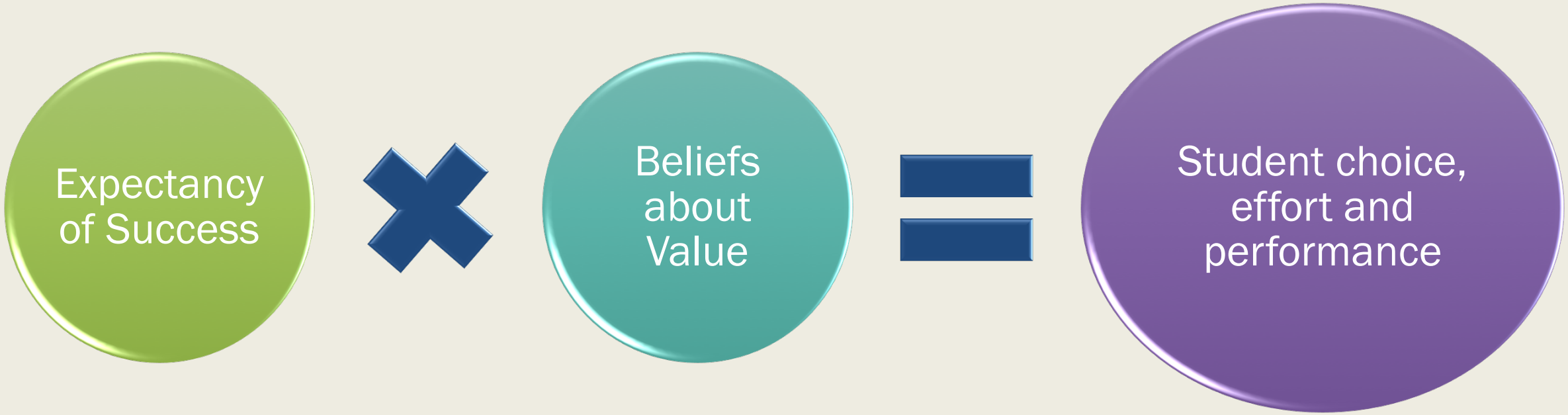


Expectancy Value Theory of Motivation:
What does this mean for adolescents with learning disabilities?



(Wigfield & Eccles, 2000)

UNIVERSAL DESIGN FOR LEARNING

Building adolescents' expectancies of success and value for academics

“Universal design for learning (UDL) is a framework to improve and optimize teaching and learning for all people based on scientific insights into how humans learn. ”

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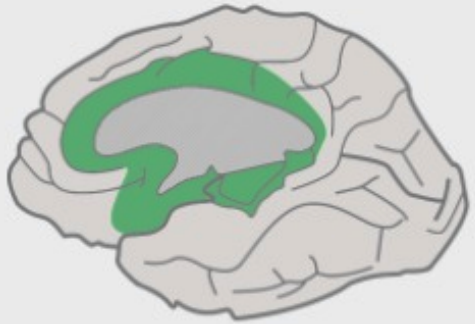
AFFECTIVE NETWORKS:
THE **WHY** OF LEARNING



Engagement

For purposeful, motivated learners, stimulate interest and motivation for learning.

RECOGNITION NETWORKS:
THE **WHAT** OF LEARNING

Representation

For resourceful, knowledgeable learners, present information and content in different ways.

STRATEGIC NETWORKS:
THE **HOW** OF LEARNING

Action & Expression

For strategic, goal-directed learners, differentiate the ways that students can express what they know.

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Guidelines for Universal Design for Learning

Universal Design for Learning Guidelines

Provide Multiple Means of
Engagement
Purposeful, motivated learners

Provide Multiple Means of
Representation
Resourceful, knowledgeable learners

Provide Multiple Means of
Action & Expression
Strategic, goal-directed learners

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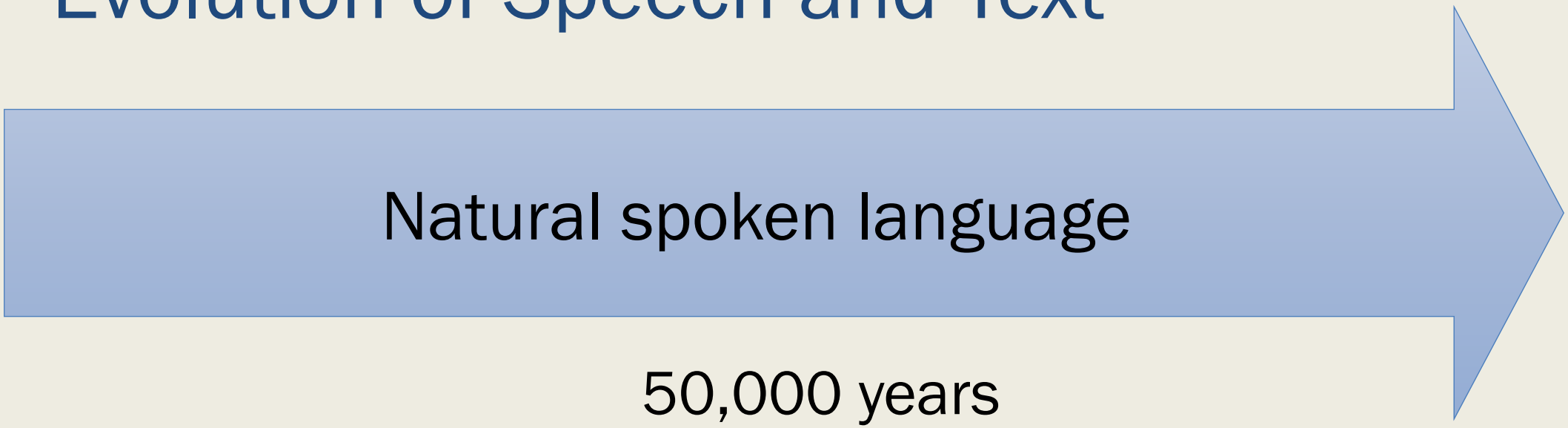
DIGITAL TOOLS

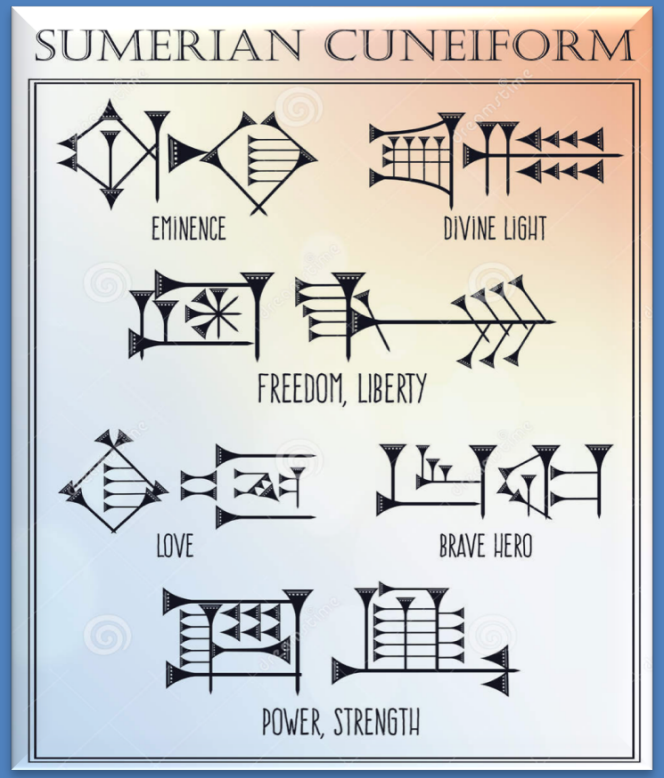
Formatting Texts to Enhance Accessibility

Evolution of Speech and Text



Evolution of Speech and Text

Cuneiform 3500 BCE



2000 BCE – Phoenician alphabet contained consonants only.

SPKNWRDSRTHSMBLSFMNTLXPR
NCNDWRTTNWRDSRTHSMBLSFSP
KNWRDS

1000 BCE – the Greeks added vowels

SPOKENWORDSARETHESYMBOLSOFMENTALEXPERIENCEANDWRITTENWORDSARTHESMYBOLSOFSPOKENWORDS.

700 AD– Emergence of lower case

Spokenwordsarethesymbolsofmentalexperience,andwrittenwordsarethesmybolsofspokenwords.

900 AD– Spaces between words

Spoken words are the symbols of mental experience, and written words are the symbols of spoken words.

When, in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable rights, that among these are life, liberty and the pursuit of happiness. That to secure these rights, governments are instituted among men, deriving their just powers from the consent of the governed. That whenever any form of government becomes destructive to these ends, it is the right of the people to alter or to abolish it, and to institute new government, laying its foundation on such principles and organizing its powers in such form, as to them shall seem most likely to effect their safety and happiness. Prudence, indeed, will dictate that governments long established should not be changed for light and transient causes; and accordingly all experience hath shown that mankind are more disposed to suffer, while evils are sufferable, than to right themselves by abolishing the forms to which they are accustomed. But when a long train of abuses and usurpations, pursuing invariably the same object evinces a design to reduce them under absolute despotism, it is their right, it is their duty, to throw off such government, and to provide new guards for their future security. --Such has been the patient sufferance of these colonies; and such is now the necessity which constrains them to alter their former systems of government. The history of the present King of Great Britain is a history of repeated injuries and usurpations, all having in direct object the establishment of an absolute tyranny over these states. To prove this, let facts be submitted to a candid world.

When, in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

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Fast Rode the Knight, by Stephen Crane

Fast rode the knight with spurs, hot and reeking, ever waving an eager sword, "To save my lady!" Fast rode the knight, and leaped from saddle to war. Men of steel flickered and gleamed like riot of silver lights, and the gold of the knight's good banner still waved on a castle wall. . . . . A horse, blowing, staggering, bloody thing, forgotten at foot of castle wall. A horse dead at foot of castle wall.

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. . . . .

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Forgotten at foot of castle wall.
A horse
Dead at foot of castle wall.

```
program array Test(input, output); var m : array[1..5] of integer;
begin m[1] := 1; m[2] := 2; m[3] := 3; m[4] := 4; m[5] := 5;
write(m[1]); write(m[2]); write(m[3]); write(m[4]); write(m[5])
end.
```

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```

The importance of formatting

When, in the course of human events, it becomes necessary for one people to dissolve the political bands which have connected them with another, and to assume among the powers of the earth, the separate and equal station to which the laws of nature and of nature's God entitle them, a decent respect to the opinions of mankind requires that they should declare the causes which impel them to the separation.

The importance of formatting

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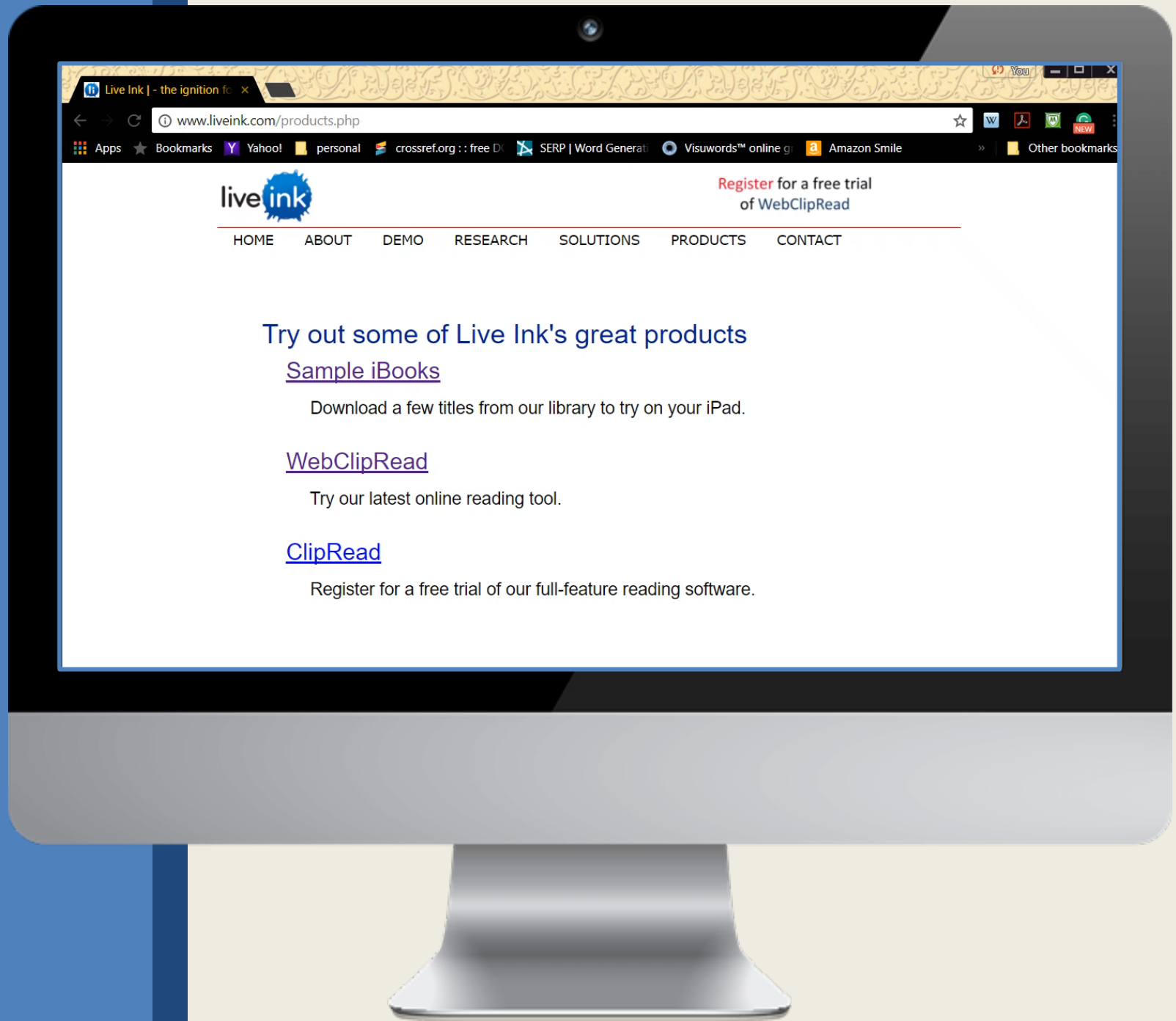
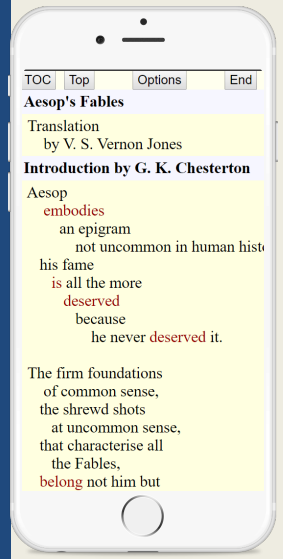
- Ready-to-read books and informational texts
- Format your own texts




TOC
Top
Options
End
Aesop's Fables
Translation
by V. S. Vernon Jones
Introduction by G. K. Chesterton
Aesop
embodies
an epigram
not uncommon in human hist
his fame
is all the more
deserved
because
he never deserved it.
The firm foundations
of common sense,
the shrewd shots
at uncommon sense,
that characterise all
the Fables,
belong not him but

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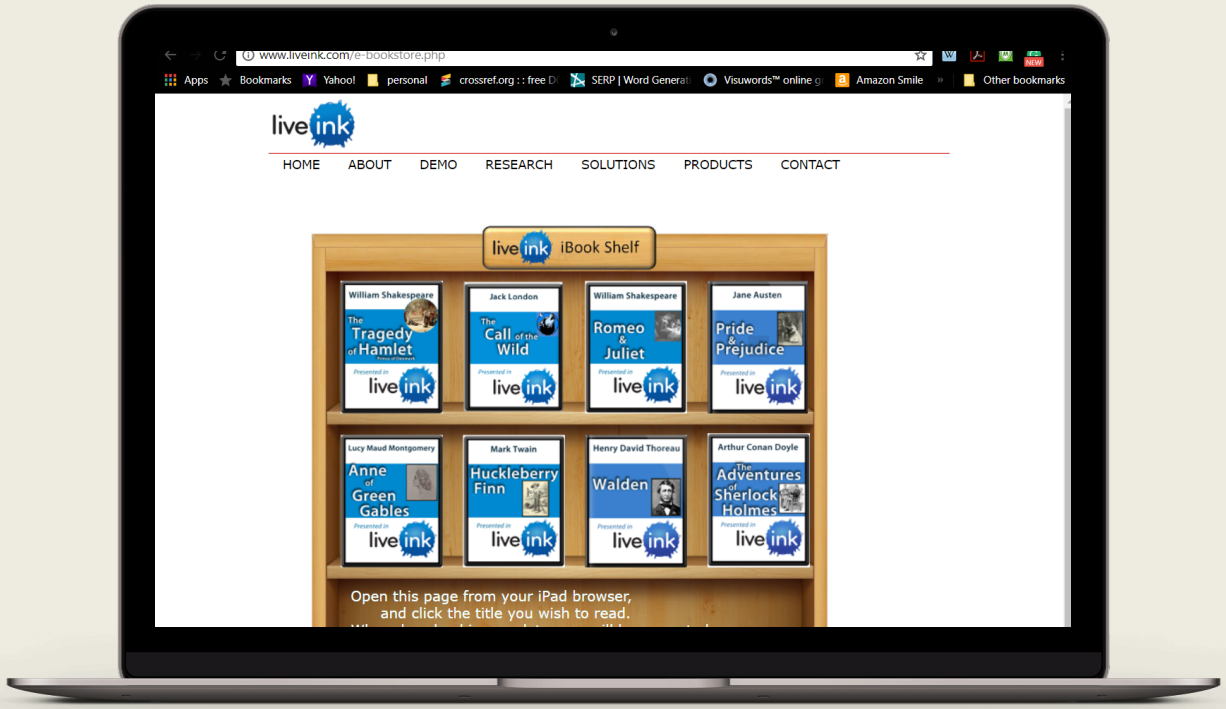
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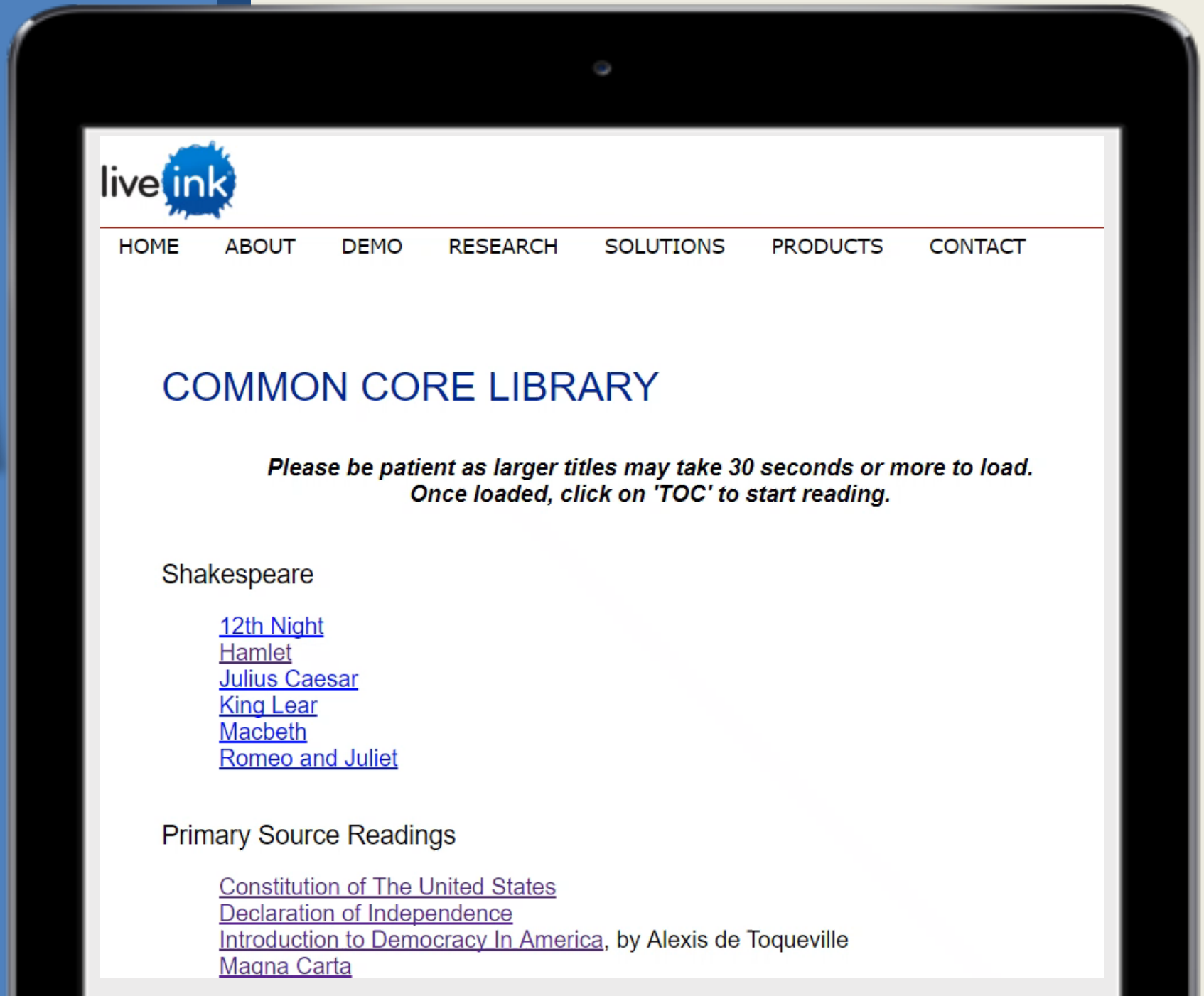
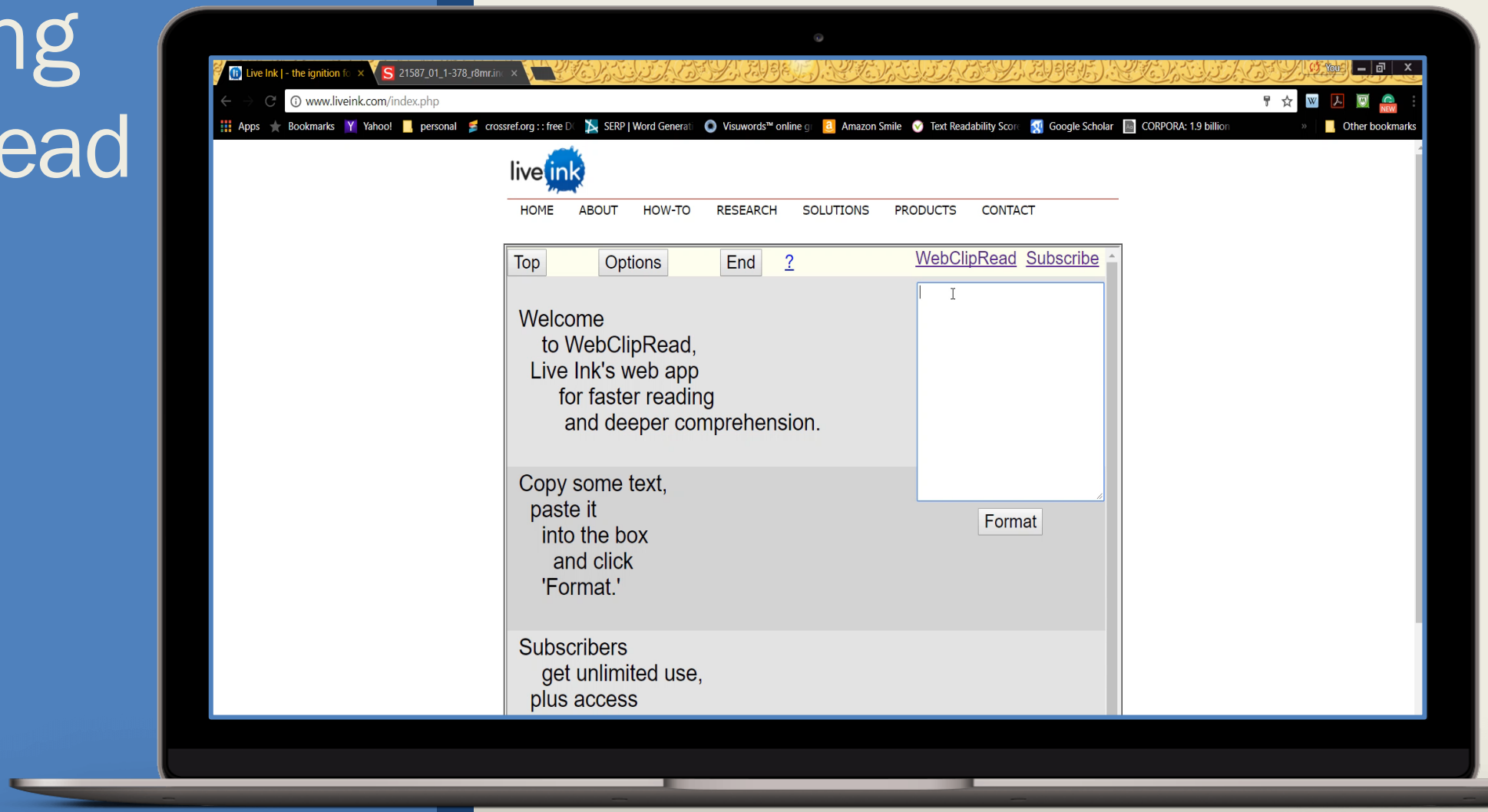
- Adjust the appearance of the texts, with different fonts, sizes and colors



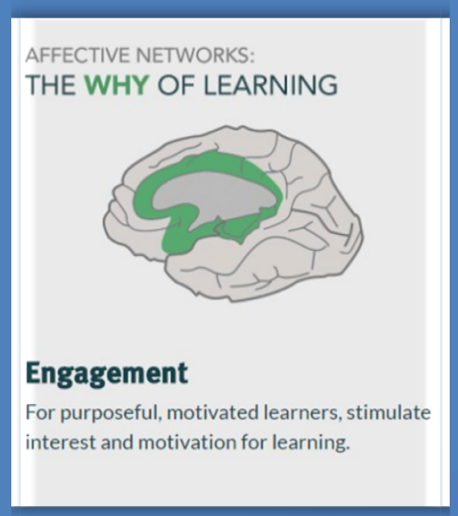
Format your own texts using WebClipRead



DIGITAL TOOLS

Universal Design for Learning to Support Close Reading

Supporting Student Beliefs About Value

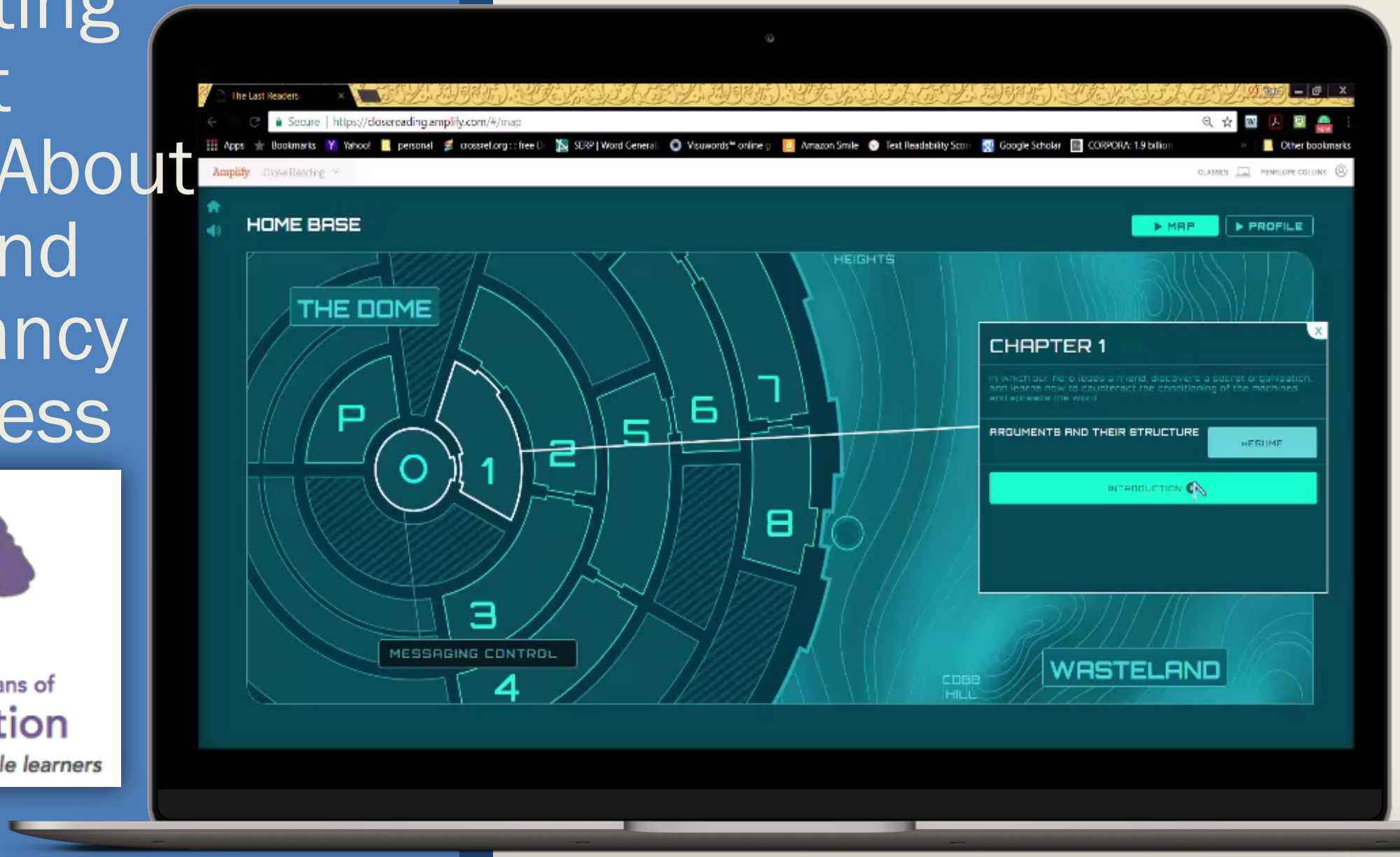


Supporting Student Beliefs About Value and Expectancy of Success

Provide Multiple Means of

Representation

Resourceful, knowledgeable learners



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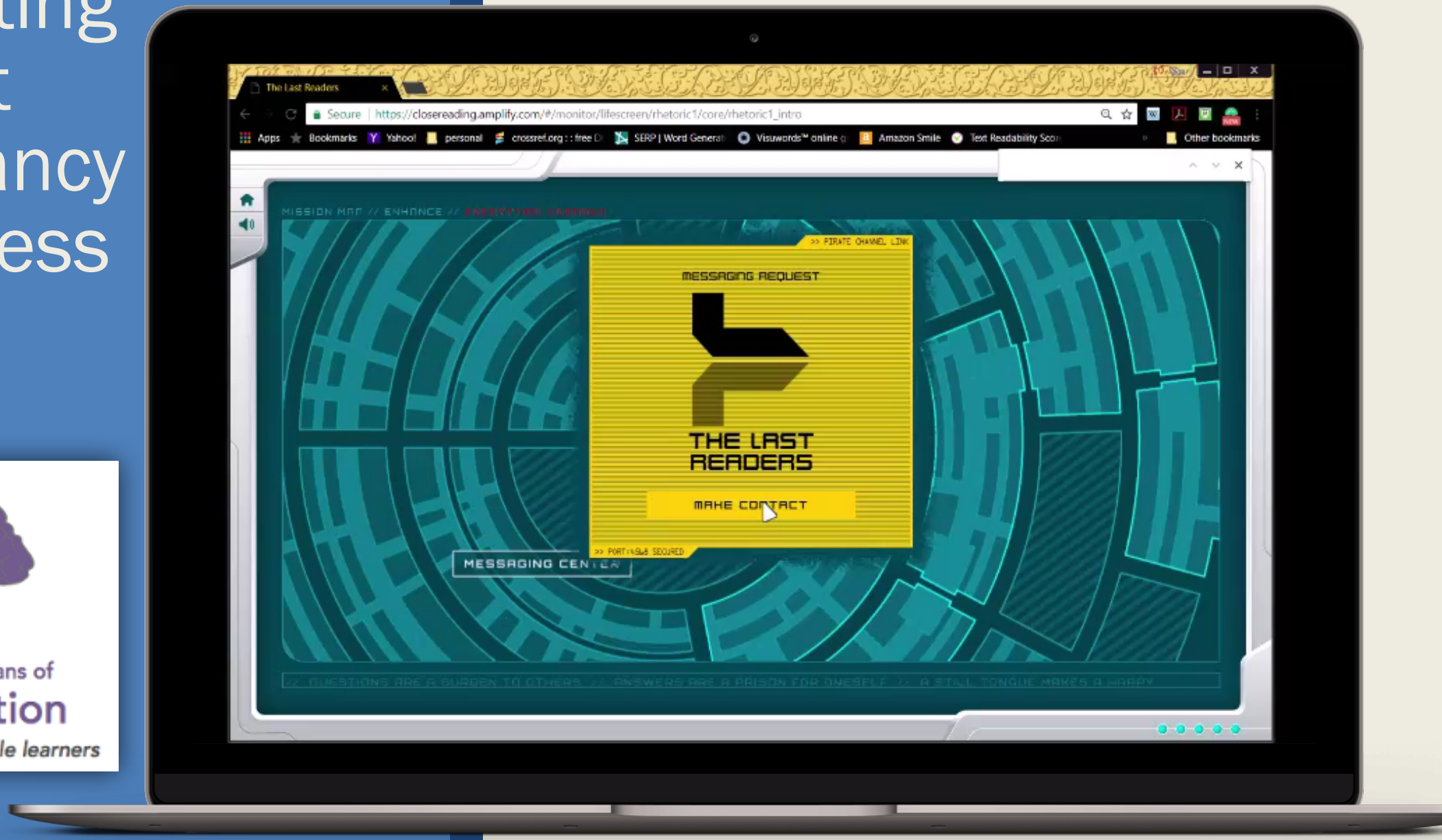
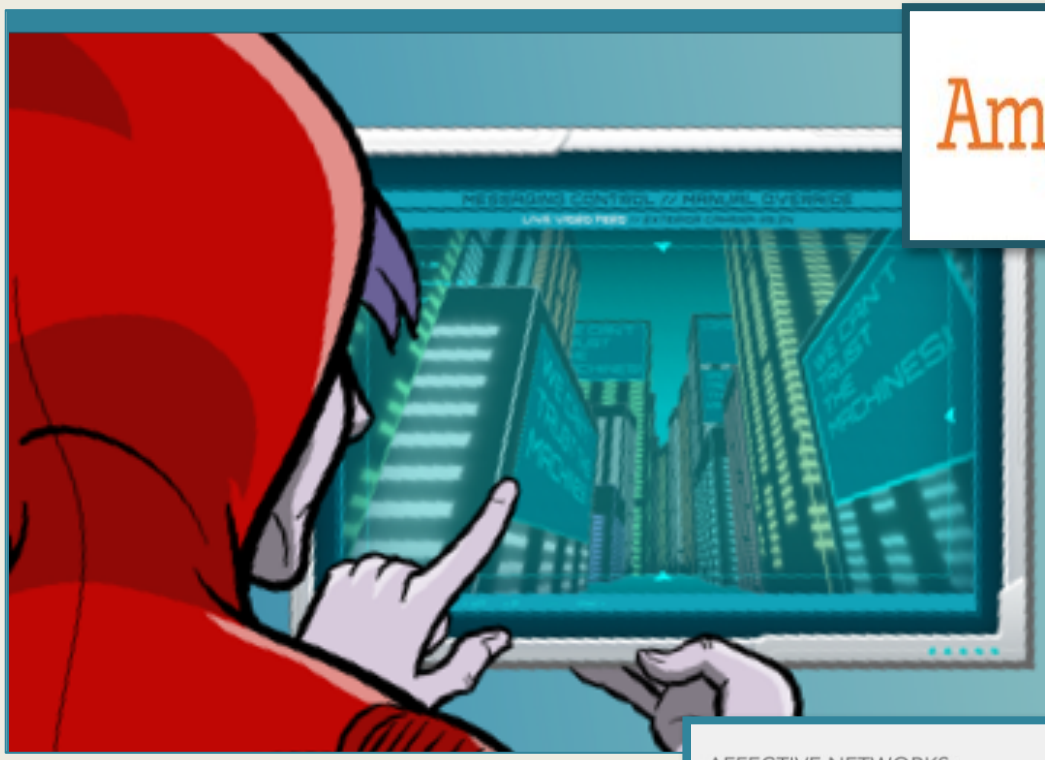


Supporting Student Expectancy of Success

Provide Multiple Means of

Action & Expression

Strategic, goal-directed learners



Amplify Close Reading

AFFECTIVE NETWORKS:
THE **WHY** OF LEARNING

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THE **WHAT** OF LEARNING

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For strategic, goal-directed learners, differentiate the ways that students can express what they know.

DIGITAL TOOLS

Universal Design for Learning to Support Reading, Research and Writing

Supporting Student Beliefs About Value

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THE WHY OF LEARNING

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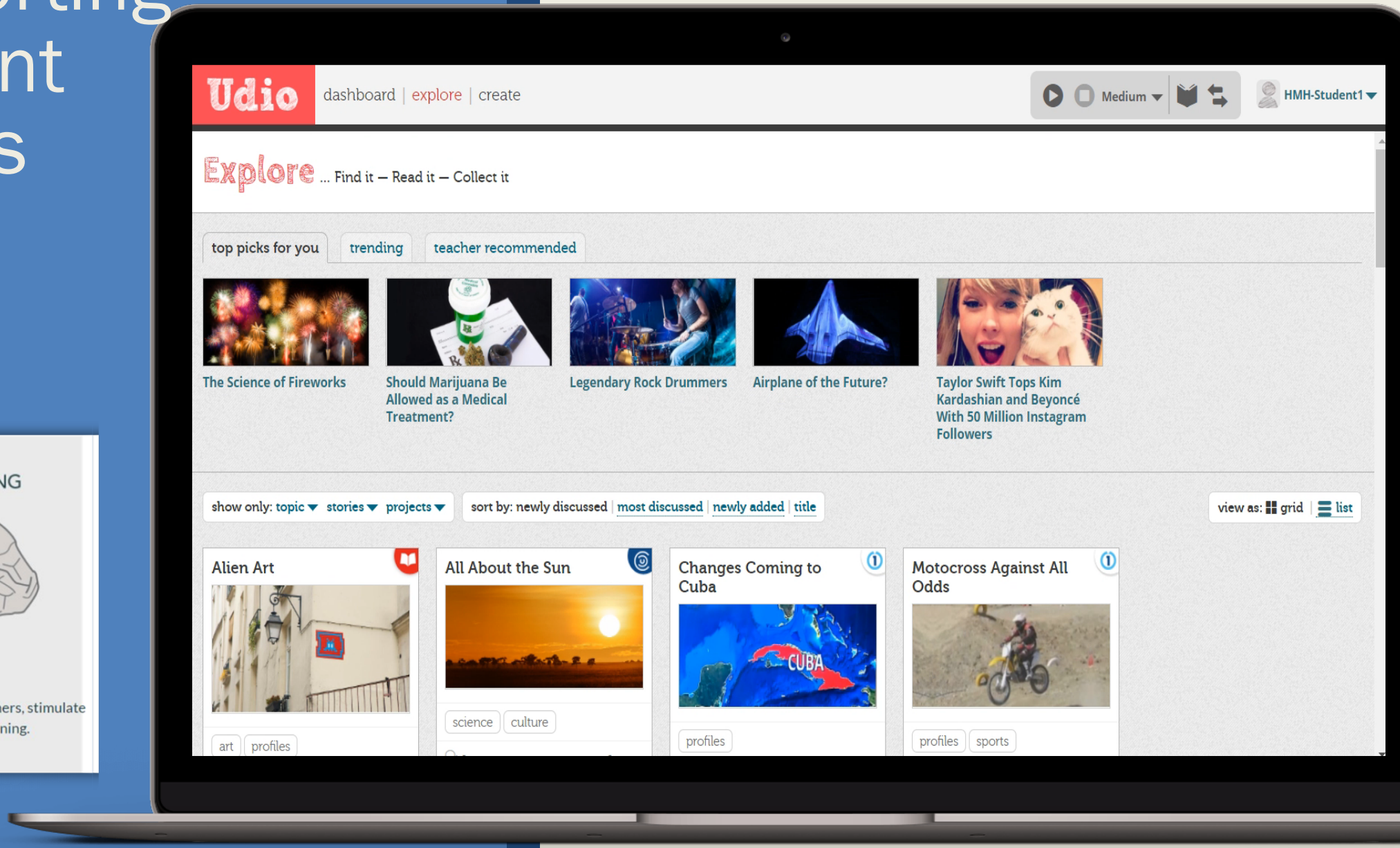

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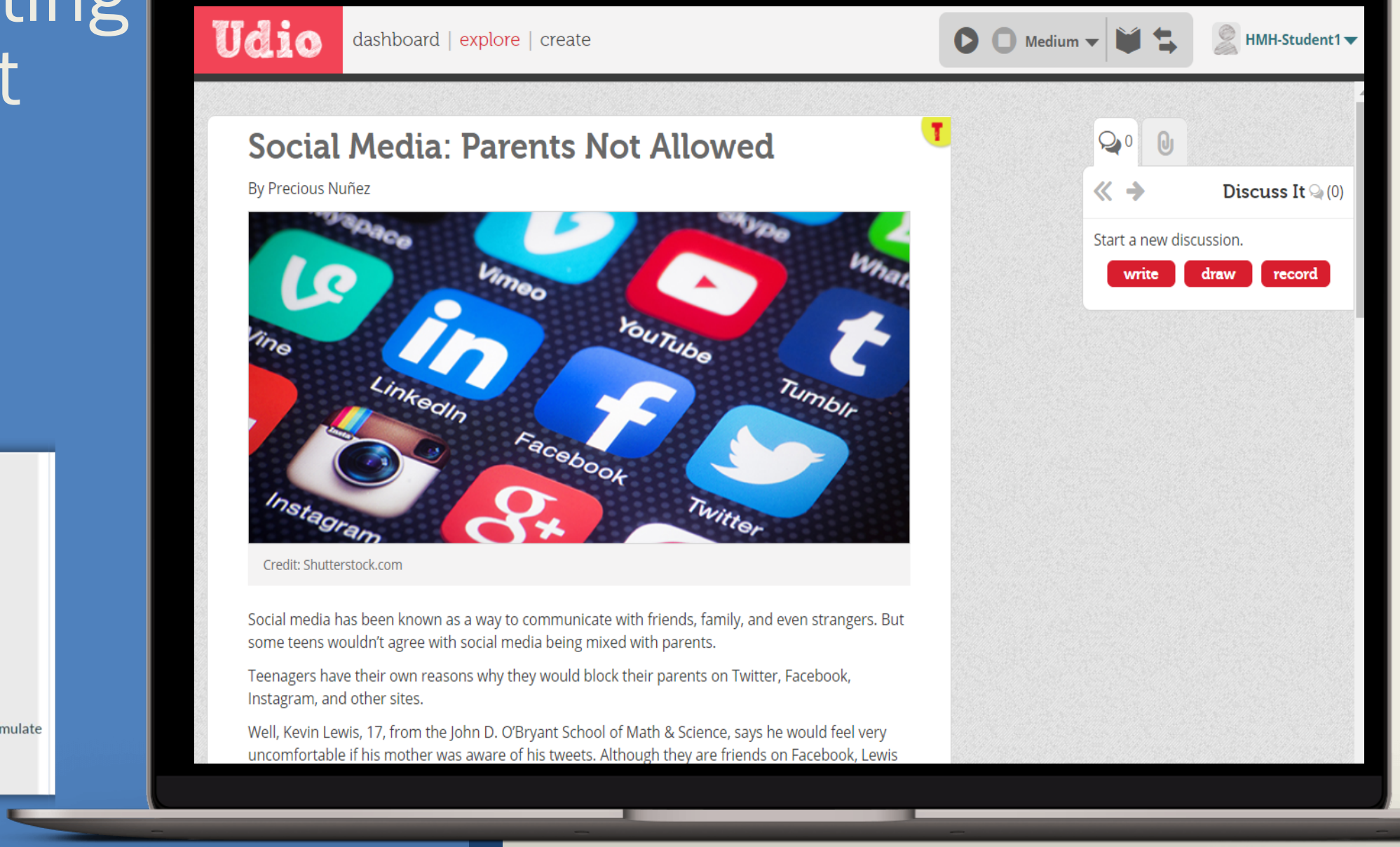

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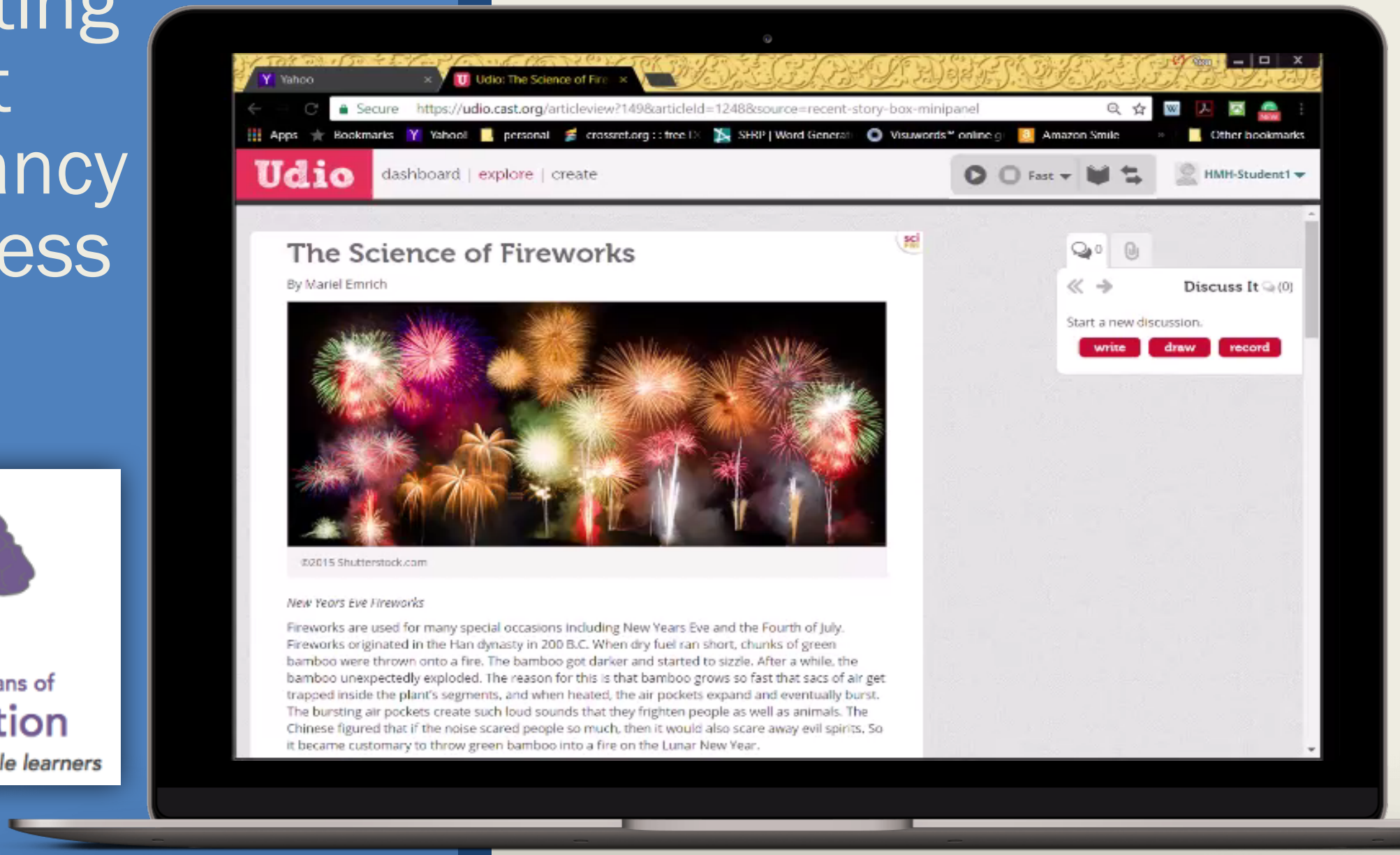

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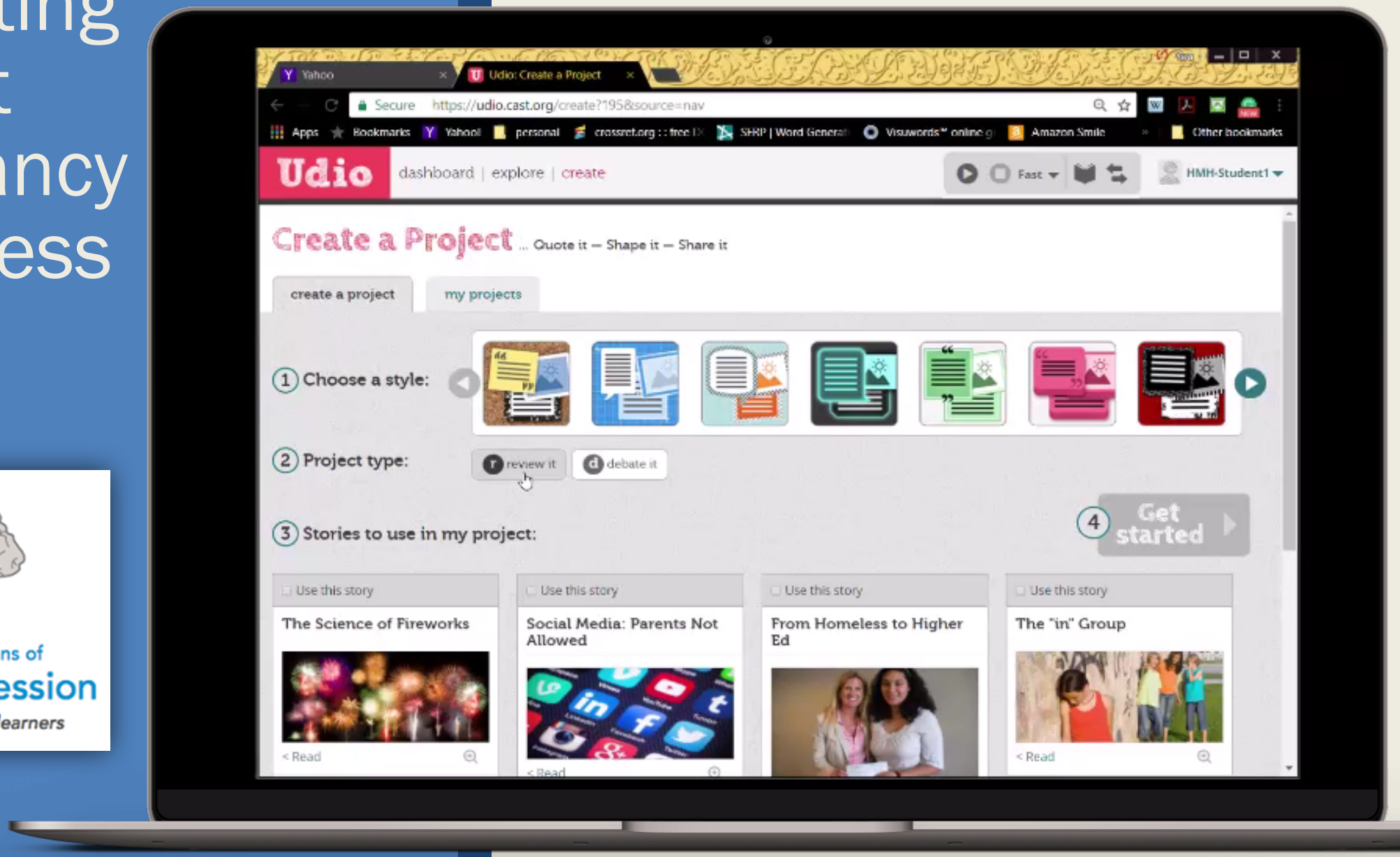

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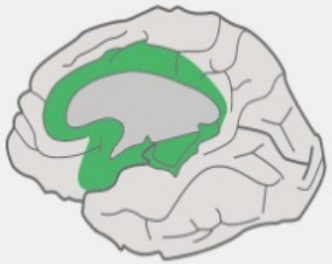

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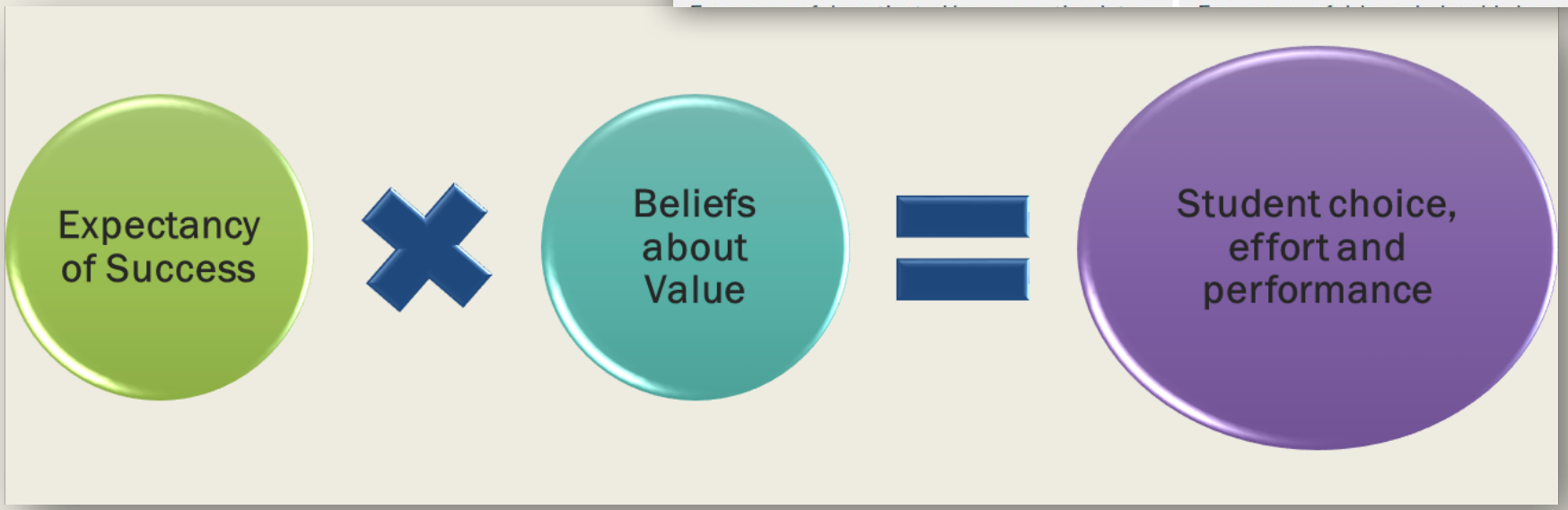

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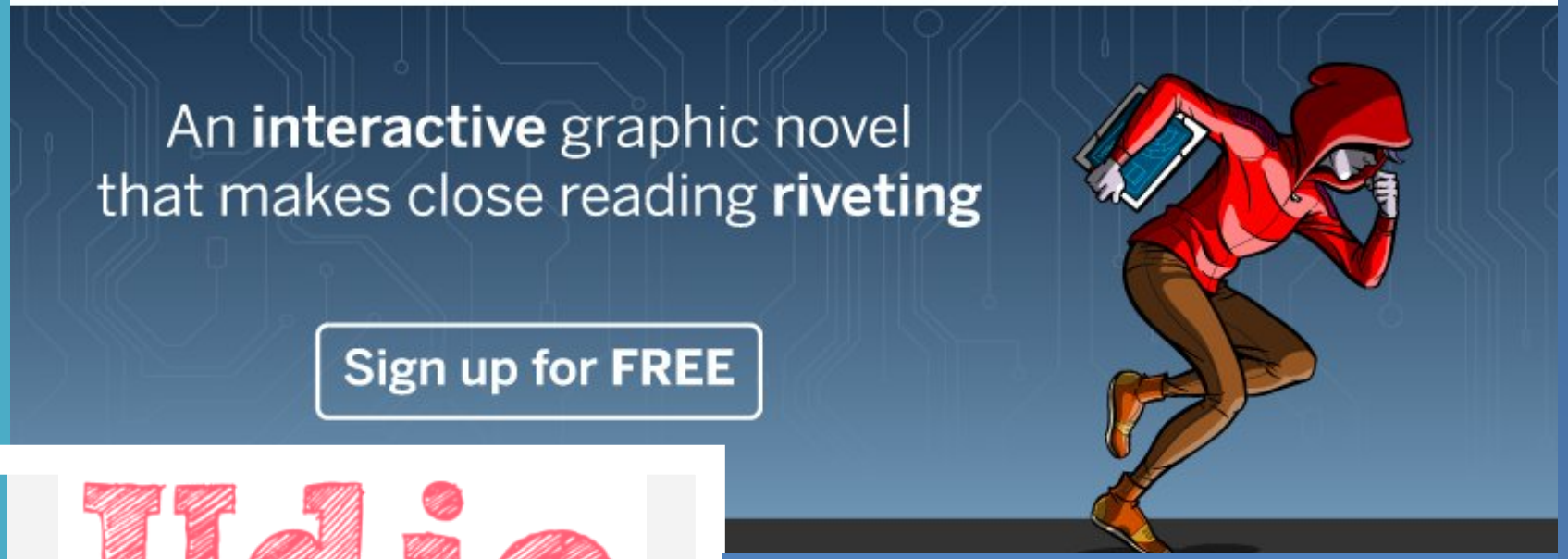
Amplify Close Reading



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Thank you.

For more information:

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p.collins@uci.edu

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