

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

Name(s)	Project Number
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	\land
	38644
Project Title	
Meloread	
Objectives/Goals Abstract	
In the US, 32 million adults are illiterate and although new educational te	echniques are being developed,
the literacy rate is not increasing by much. According to Time Magazine get older, with "45% of 17-year-olds saying they only read twice a form"	kids read less and less as they
by 2014 which is also reflected by poorer scoring on reading completenes	sion testeras reported by research
from Common Sense Media.	
Thus, the literacy rates in the US are stagnant, leaving a large group of p pace society. Evidently, those who fail to become literate have difficulty	copic struggling in today's faster
relationships and simply navigating the streets.	
How can we combat the declining literacy and better educate the people	in the US? Make reading more
How can we combat the declining literacy and better educate the people is entertaining. Nowadays, teenagers are drawn to watch the latest tv shows	s for hours due to the immersive
experience complete with colorful graphics and dramatic music instead of or article. Thus, we created Meloread to provide students with an immerse music that matches the tone of their reading material, motivating more st	sive reading experience by adding
music that matches the tone of their reading matchel, motivating more st increasing literacy rates.	udents to read and ultimately
Methods/Materials	
2 laptop computers with text editor as well as JavaScrip, testing suite. W the Chrome App Store and having 500 users download it and fill out a su	as tested by submitting the app to urvey
App is written in HTML, CSS, JavaScript and JQuery and connects to th use neural networks to determine the tone of the artive text, then plays m	nusic from YouTube with the
relevant mood	
Over 400 of the 500 users ages 13/9 surveyed reported that they would in the future as a reading aid in order to make the reading experience more	be happy to use Meloread again
in the future as a reading art in offer to make the reading experience more Conclusions/Discussion	re enjoyable and interesting.
In the future, Meloread found make use of iteration in order to improve u	pon itself and take into account
user feedback, including consistent crashing of the Chrome extension as background playback. In this sample it was determined that it is indeed n	nore enjoyable to use Meloread
Summary Statement	
Meloreact is a computer software that matches music to the tone of one#s enhanced reading experience.	s reading material to provide an
Help Received	
We designed and programmed the app ourselves using internet searches on API usage and received suggestions from mentors at a hackathon.	
suggestions from memors at a nackation.	