天主教輔仁大學英國語文學系學士班畢業成果 ENGLISH DEPARTMENT, FU JEN CATHOLIC UNIVERSITY GRADUATION PROJECT 2020



Technology Assisted Instruction and Presentation

Project Title: Plastic Straw

Li Sin Cheng (Allen Li)

405110600

2019/6/24

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Google Site Links ----

1. Group Site Homepage: VERITAB https://sites.google.com/view/plasticstraw/home?authuser=0

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2. My self-created subpages:

https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-containingflavoring?authuser=0 https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-containingflavoring/the-concept-of-this-straw?authuser=0

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https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-containing-

flavoring/how-does-it-work?authuser=0

https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-containing-

flavoring/some-limitations?authuser=0

https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-containing-

 $flavoring/decomposable-tableware-to-use-or-not-to-use?authuser{=}0$

Project Oral Presentation Link --- https://youtu.be/w9ljWL41iuk



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Plastic Straw Allen Li 405110600

Plastic Straw

I. Introduction of Group Project

A. Motivation and Background Information

Government departments, public and private schools, department stores,

shopping centers, fast food chains and other 8,000 businesses are not allowed

to use disposable plastic straws after July 1, 2019. This regulation draws our

group's attention. Facing this new policy, some people support it, but others

think it will be inconvenient. After deeply understanding this issue, our group

decide to share the information about plastic straws to the public, and we also

have several purposes in our project.

1. Through our project, we want to raise public awareness of how plastic straws can cause damage to our planet.

2. Through our project, we'd like to share what other countries and Taiwan have planned or done.

3. Through our project, we'd like to share some unique alternatives to plastic straw, including the one came up with by us.

B. Short Introduction

"Of the 9 billion tons of plastic we make every year, only 9 percent is recycled.

About 13 million tons of plastic waste goes into the ocean every year."

Gruesome images of whales or sea turtles stuffed with plastic waste are

becoming more common. It is time for people to understand the negative impacts

of plastic straws and to dispel concerns about environmental straws.

II. Project Content Explanations

Minor Focus: A. Group Project Framework: **Plastic Strav** Related Statistics Current Situation Our Solution 1 Our Solution 2 Editors Pollution Problems Environmental Pollution Usage Nicole Huang Taiwan Concept Concept Impacts on Marine Wildlife Waste EU Internal Texture Limitation Nina Tong Companies External Texture How Does it Work? Irene Hsu PULCHRITU Alternatives Limitations Andrea Luo Allen Li

The issue of plastic straws is getting more and more popular. When we decided on this topic as the subject of our project, we thought together about what important information we could bring to our readers from this project or what we could inspire them. At the beginning, we intended to let readers understand the harm caused by plastic straws, including its environmental damage. At the same time, we also provided research data to support our arguments. We then went on to introduce a series of solutions that were being proposed today. Finally, we came up with two creative alternatives for people to adopt.



Fig. 1

In this section, we introduce some plastic straw pollution problems, including

environmental pollution and the impact on marine creatures.

Fig. 2

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In this section, we provide related statistics to show our usage and waste of

plastic straws.

Fig. 3



In this section, we introduce current regulations about plastic straws and some

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current alternatives of plastic straws.

Fig. 4



Internal Texture

External Texture

Limitations





In these two sections, we provide two unique straws that may replace plastic

straws. The first one is a sugar cane straw and the second one is a straw

containing flavoring.



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B. My Focus

Table 1. List of Links to My Google Site Production of the Apps/Software

Adopted

Apps/Software	Xmind
Google Site	https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-contain
	ing-flavoring/some-limitations?authuser=0
Apps/Software	Powtoon/iMovie/QuickTime Player/Audacity
Google Site	https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-contain ing-flavoring/how-does-it-work?authuser=0 https://sites.google.com/view/plasticstraw/our-solution-2-a-straw-contain ing-flavoring?authuser=0

Fig. 6 : The Homepage of Solution 2

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Fig. 7 : The Homepage of Solution 2

I use Powtoon animation and several pictures to describe some situations that people may encounter when they use plastic straws to have a drink.





This part briefly shows the advantages of the new-designed straw.



1.1

Fig. 9 : The Concept of This Straw

Fig. 10 : The Concept of This Straw



This page introduces the concept of this new-designed straw, including its special ingredient and flavouring.

Fig. 10 : How does it work?



Subsequently, I once again use Powtoon animation to explain how to make this

.



Fig. 11 : Some Limitations



However, this type of straw still has some limitations. I then use X-mind to present possible concerns of using "the straw containing flavouring."

Fig. 12 : Compare and Contrast of Different Straws

COMPARE AND CONTRAST OF DIFFERENT TYPES OF STRAWS

Material	Advantage	Disadvantage
Stainless Steel	• Resistant to fall and oxidation.	 Avoid acidic drinks such as lemonade. Using a steel brush or scouring pads to clean it may cause scratches and bacteria breeding.
Glass	• Resistant to high temperature and acid corrosion.	• Fragile.
Bamboo	 The burden on the environment is relatively small. It can be decomposed directly in the natural environment. 	• If not completely dry after cleaning, it will be moldy.
Silica gel	 It is the only material that can be bent and stored. Easy to carry. There won't be any broken pieces. It won't scratch your tongue. Resistance to acid and alkali. 	 Easy to adsorb dander, need to wash before use. Easy to absorb the taste and the pigment in the drink. It also yellows easily when used for a long time.
Paper	• It creates a lighter environmental burden than plastic straws.	 Unreusable. After being thrown away, it is still a piece of garbage.
Sugar cane	 Reusable. It decomposes within six to eight months of being buried in the soil, with a slight carbon footprint 	 The heat resistance is only between 50 and 60 degrees. Not suitable for drinking hot drinks and edible fats. The taste of drinks may be

I also use Pages to create a table to show the advantages or disadvantages of different

types of straw.

Fig. 13 : Decomposable Tableware



Fig. 14 : Decomposable Tableware

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	IS IT REALLY WORTH USING?
J	The most basic element of tableware is heat resistance.
Poly (lactic a	cid) is an environmentally friendly material because it can be decomposed at high temperature.
So why do you th	ink it's heat-resistant? What makes you think this kind of cutlery is suitable for use?
-	lactic acid is not a good choice for tableware, as it starts to often and deform at just over 60 degrees Celsius.
-	
So Problem	often and deform at just over 60 degrees Celsius. If you take a Pure Polylactic acid cup and you microwave it
Problem 😖	often and deform at just over 60 degrees Celsius. If you take a Pure Polylactic acid cup and you microwave it you go in with a cup, and you come out with a liquid.
Problem 😖	often and deform at just over 60 degrees Celsius. If you take a Pure Polylactic acid cup and you microwave it you go in with a cup, and you come out with a liquid. In change the problem that polylactic acid tableware canno ost manufacturers will mix polylactic acid and traditional



FORTUNATELY, IN RECENT YEARS, THERE HAVE BEEN "HEAT-RESISTANT AND NATURAL" POLYLACTIC ACID.

 Solution 1

 Improve the crystallinity of polylactic acid so as to increase its melting point, becoming another material known as Crystalline PLA (CPLA).

 Solution 2

 Look for other additives to replace the traditional plastic PP used to improve the quality.

In this page, I especially introduce popular decomposable tableware. This tableware is made up of polylactic acid. I still use Pages to create several tables to explain the

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concept of the decomposable tableware.



PULCHRITUDO

In our group project, the part I contributed the most was providing advice on solutions. At first, we couldn't think of an alternative to plastic straws. Thankfully, one of our group members mentioned Starbuck's edible straw, which inspired me to come up with the new-designed straw that contain flavouring. That is also why I am in charge of edit and build the solution page in our Google site. One obstacle I encountered was that I would worry that my own finished product would not be able to faithfully convey the concept I wanted to convey, because I was not really good at using Powtoon. However, I still tried my best to finish it. Basically, I thought our group cooperated successfully. All of us finished our own part on time.

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III. Apps and Software Adopted in the Group Project

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- 1. Powtoon (https://www.powtoon.com/home/?)
- 2. Audacity (https://sourceforge.net/projects/audacity/)
- 3. QuickTime Player

(https://support.apple.com/zh_TW/downloads/quicktime)

4. iMovie

(https://apps.apple.com/tw/app/imovie/id408981434?l=zh&ls=1&mt=12&v0

=www-tw-mac-imovie-app-imovie)

- PowToon is a combination of animation and graphics and is made in a similar way to Power Point. As a result, you can easily add text, images. characters, props, shapes, and backgrounds, transition effects, and other content from the template, and create animated movies based on special effects settings. PowToon also offers free access to music without copyright infringement.
- Audacity is a free and powerful audio editing software. It can be used to clip music, merge music, record music remove voice, remove noise, etc.
- QuickTime Player can be used to play, record, and edit videos. QuickTime

Player also has on-screen recording function.

• **iMovie** is used to edit and produce films, create trailers and 4K movies.

IMovie is popular for the simplicity of its interface, most of which

requires a simple click and drag.

• In my project, I have to explain the process of making a straw. Instead of

using monotonous words, I think images or videos are more effective.

That's why I choose Powtoon to help me convey my ideas. The Powtoon

video not only presents my thoughts in a creative way but also catches

audiences' attention during our presentation.

• One difficulty I encountered was that Powtoon free account was not allowed to download the video. So I used QuickTime Player from Mac to help me record the video. However, the sound in the recorded video version contained some noises. Therefore, I moreover used Audacity to remove ambient noise sand use iMovie to add audio files to the original

video. Finally, I uploaded the video to Google Drive so that I could insert

the video into my Google Site successfully.

Fig. 16 : Powtoon Production



Fig. 17 : Powtoon Production



IV. When I First learned the Apps/Software/Platform

Week 4: Xmind

This week, we learned a new piece of software-Xmind. Its main purpose is to help users capture ideas and organize various reports. It can also be used to do knowledge management, meeting minutes, task management, etc. In the past, we used to use PPT slides or documents to compile information. I am glad that I learn this tool, looking forward to applying it into different fields.

In-class Practice:



Change the color and the font and add an image.



copy bullet points copy paragraph texts



Week 10: Evercam & Google Site Tutorial

Today, we first practiced some Evercam features, including trimming, editing, so on. Moreover, our group started our Google Site tutorial. We first introduced the interface of Google Site, and then taught them how to use Google Site step by step. I was in charge of embed pictures, texts, background images. Luckily, the

whole process was successful.

In-class Practice:



editing the name of import

Li 24 June 2019

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The process of import.



The result of import.

Week 11: Google Site Tutorial

Today, our group first taught everyone the rest of functions on Google Site so that we could our own Google Site. We learned how to embed different items, such as Google Maps, and learned how to set a layer and sub-pages. In addition, I also worked on my tutorial Evercam. I started to trim it and exported it. Lastly, our group discussed our final project with BC. We now realized that we needed to provide a solution.



adding layers





embed URL and YouTube



Week 12: Audacity & Wix



amplify

Li 30 June 2019





Week 13: Powtoon & Cospace

We learned how to use Powtoon to make animation today. One of the big features of Powtoon is its "free" use. Powtoon is a combination of animation and graphics and is made in a similar way to Power Point. I basically love this platform and I will also use it in my final project.

Another platform we learned today was Cospace. Compared to Powtoon, I think it is not that useful for me. Since we use the free version, we can't access the majority of functions. However, the tutorial group did a great job.

I didn't encounter any major difficulties today.

In-class Practice:



Learn basic functions



Create animation by adding characters and setting the routes.

V. Conclusion: Reflections and Thoughts for Creating This Project

Our common form of presentation has always been using PowerPoint slides. This time we presented our project as a website. Generally, most web content consists of text or a few pictures, which does not really attract readers' interest and is monotonous. Sometimes even though the speaker speaks well, the materials he or she uses still can't arouse people's attention. In our project, we tried to use different multimedia materials, software and so on to turn the text into vivid animation or colorful graphics. In this way, we want the listeners to be able to absorb the information we provide in the fastest and effective way, and to be able to get involved in the presentation through the auxiliary multimedia This new experience is valuable to me, for we don't have the opportunity to learn about different applications in other courses. In the process of production, although there were some complaints about some products such as Google Site, I was still very excited when the final result came out. I don't think this project is easy to achieve, especially for beginners. Some software is not very easy to use, but we still have to try to use them in our project. We communicate our ideas in the most effective way through detailed text and multiple images and videos. Overall, I believe that our website can provide a wealth of information to the general public about the problems caused by plastic straws and what alternatives

are available. I also hope that people who browse our website can try not to use

plastic straws in the future. After all, each of us has a responsibility to work

together to protect the earth.

VI. References (Works Cited -Divide your references into categories)

A. Text sources

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