Software Studio 軟體設計與實驗

Assignment 01 Web Canvas

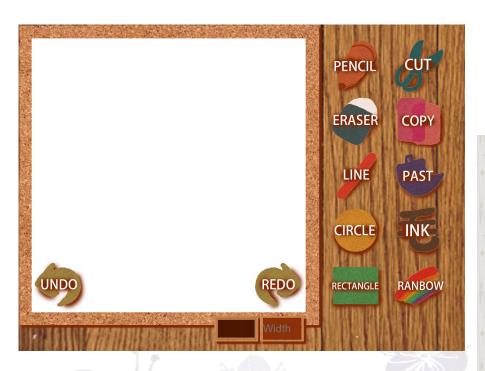
Hung-Kuo Chu

Department of Computer Science
National Tsing Hua University



Web Canvas









Goal

- Create your own web page with HTML5 canvas element where we can draw somethings.(HTML)
- Beautify appearance (CSS).
- Design user interaction widgets and control tools for custom setting or editing (JavaScript).
- Describing the functions of your canvas in README.md by HackMD (you can reference the template by TAs)
- You ought to explain how to operate your web, if TAs can't find the function, you won't get the points.

Basic components

- Basic control tools (30%)
 - Brush and Eraser (You can not use white color as eraser!)
 - Color selector (<input type="color"> is not acceptable)
 - Simple menu (brush size)
- Text input (10%)
 - User can type texts on canvas
 - Font menu (typeface and size)
- Cursor icon (10%)
 - The image should change according to the currently used tool
- Refresh button (5%)
 - Reset canvas



Advanced tools

- Different brush shapes (15%)
 - Circle, rectangle and triangle (5% for each shape)
 - Drag the cursor to make circles, rectangles, and triangles of different size (Please refer to the example)
 - Flickering canvas is not acceptable
- Un/Re-do button (10%)
- Image tool (5%)
 - User can upload image and paste it
- Download (5%)
 - Download current canvas as an image file



Basic Control Tools





Text Input



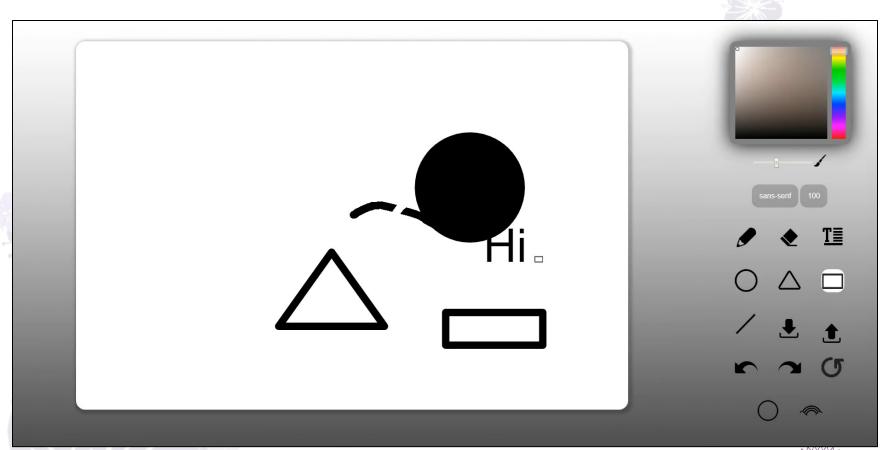


Cursor Icon



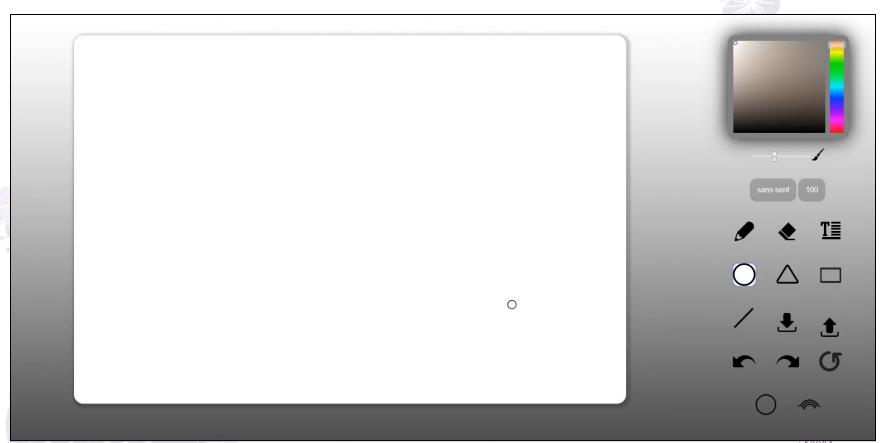


Refresh Button





Different Brush Shape





Un/Re-do button





Image Tool



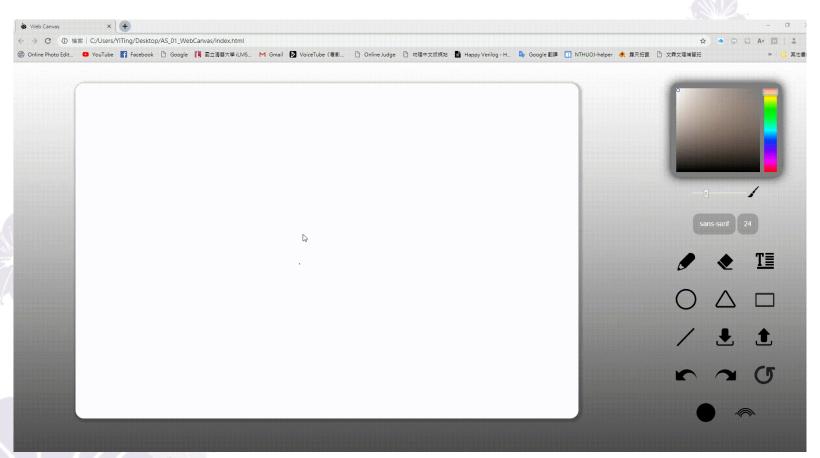


Download





All Functions





Scoring

Item	Score	
Basic components	55%	
Advance tools	35%	
Appearance (subjective)	10%	
Other useful widgets (describe on README.md)	1~5%	



Reminder

- Deploy your web page to Firebase page, and ensure it works correctly. Add TA's account to your firebase project.
 - Your main page should be named as "index.html"
- Upload all source code to FTP. (reference eeclass)
 - Compress all files into Assignment01_學號.zip then upload:
 - Assignment01_111062000.zip
 - /Assignment01_111062000
 - index.html
 - style.css
 - app.js
 - README.md
 - other source files
 - if you didn't follow the structure → -10%
 - If you upload the files again, please change the filename become Assignment01_學號_v?.zip (v? -> which version)
- MD5 checksum (if you didn't do this → -10%)
- FIRM deadline: 2024/04/02 23:59 (commit time)
- Upload your MD5 and web link to eeclass



Add permission to TA's account

 Go project setting and select "Users and permissions"



Add permission to TA's account

 Add cgvlab711839@gmail.com as editor to your project.





作業規則

程式碼嚴禁抄襲,抓到抄襲者,抄襲與被抄 襲者

直接當掉!直接當掉!直接當掉!

直接當掉!直接當掉!直接當掉!

- 抄襲者定義:採用現有資源(線上下載、同學(or 學長姐)的 code)且不經修改直接繳交作業者
- 沒有屍體分數,遲交零分且不得補交或遲交。

作業繳交規則

- 請務必透過 MD5 獲得作業checksum 後填入 google 表單。
- 如遇各種原因無法在作業期限前完成上傳,我們將比對 checksum。若 checksum 一致則不算遲交。
- 繳交作業以MD5為主,若有多個 checksum 則取時間最晚的為主。
- MD5 online generator
- MD5 checksum 登記表單
- MD5 checksum 登記查看
- <u>MD5</u> 使用方法



作業繳交流程

請務必遵守以下規則:

- 1. 將作業打包壓成zip檔,檔名格式以及打包內容以當 次作業公告為主。
- 2. 幫zip檔產生MD5,並填寫google表單。
- 3. 將zip檔上傳ftp。
- 4. 將MD5和網址繳交至eeclass。

若違反任何一項繳交作業SOP, 一律扣作業總分10分!!!

贴心提醒:請同學守護zip檔至作業成績公告或期末。

