

# Software Studio

## 軟體設計與實驗

# Assignment 01

## Web Canvas

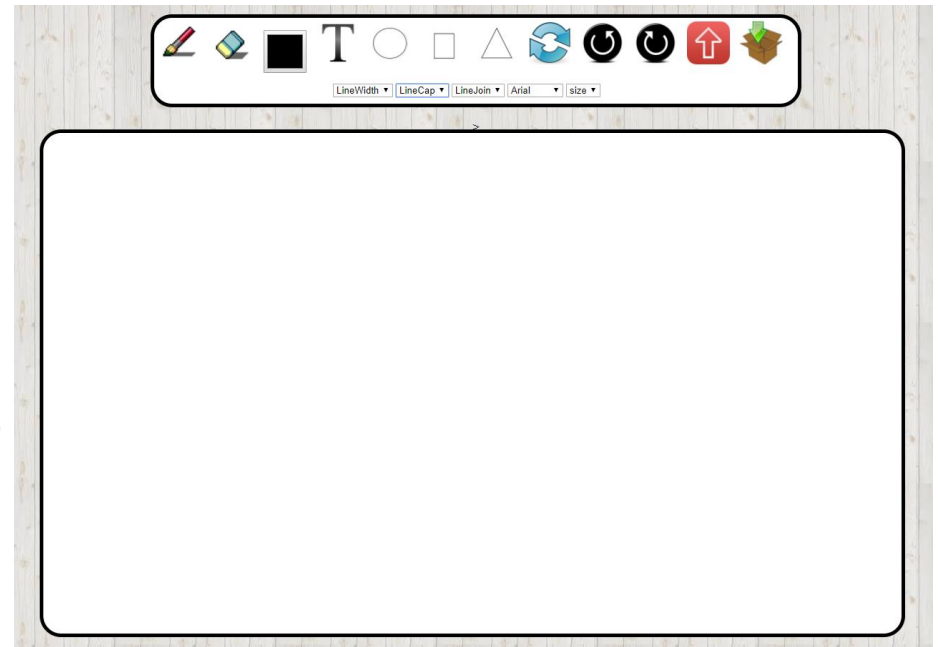
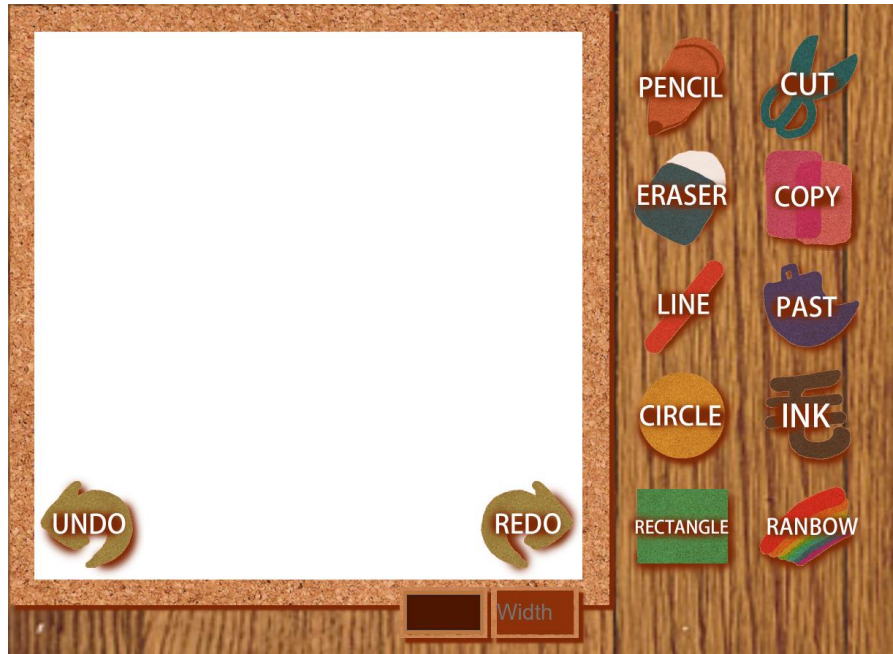
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**CS2410**



# 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

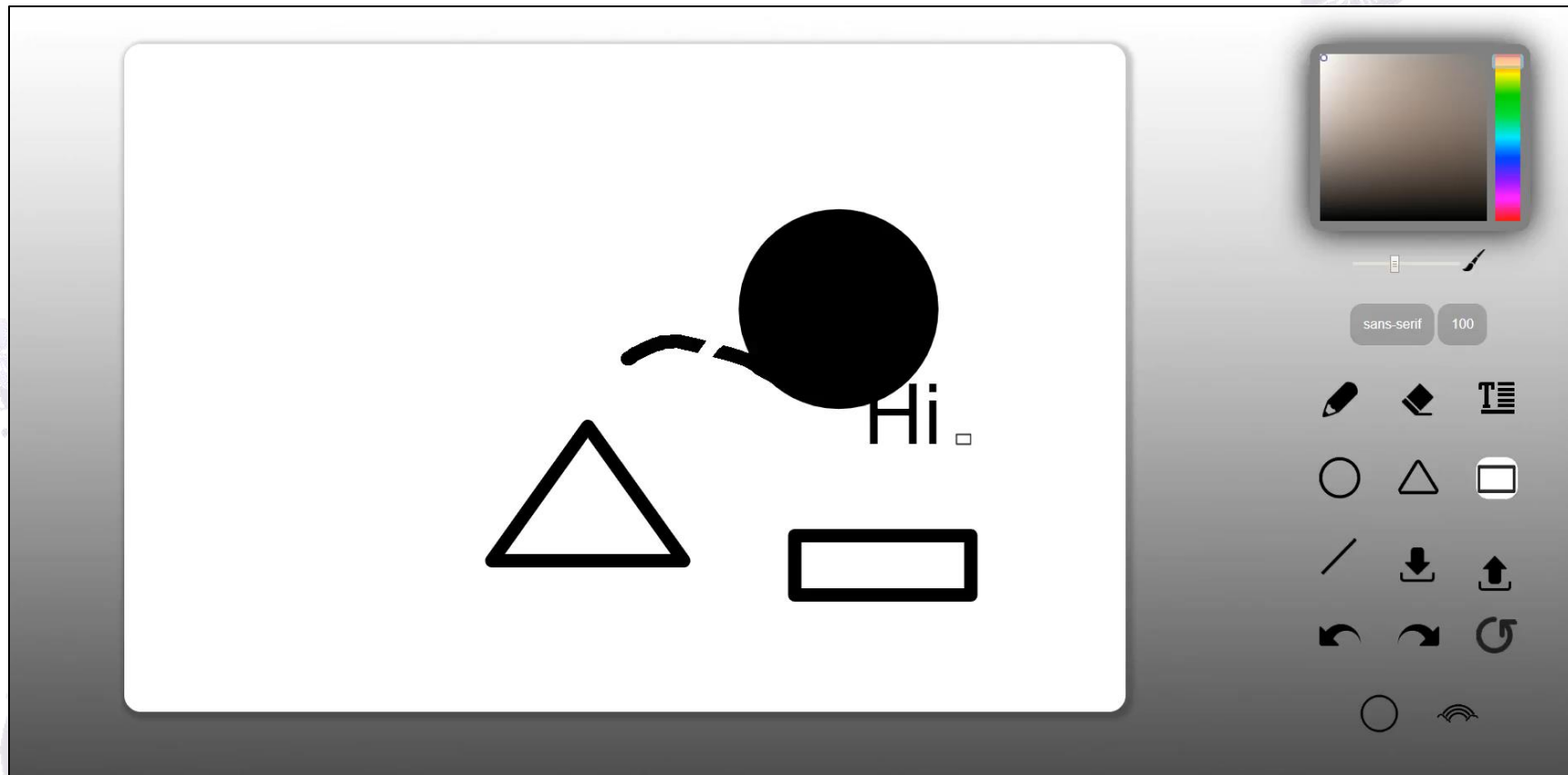


# Cursor Icon





# Refresh Button



# Different Brush Shape



# Un/Re-do button



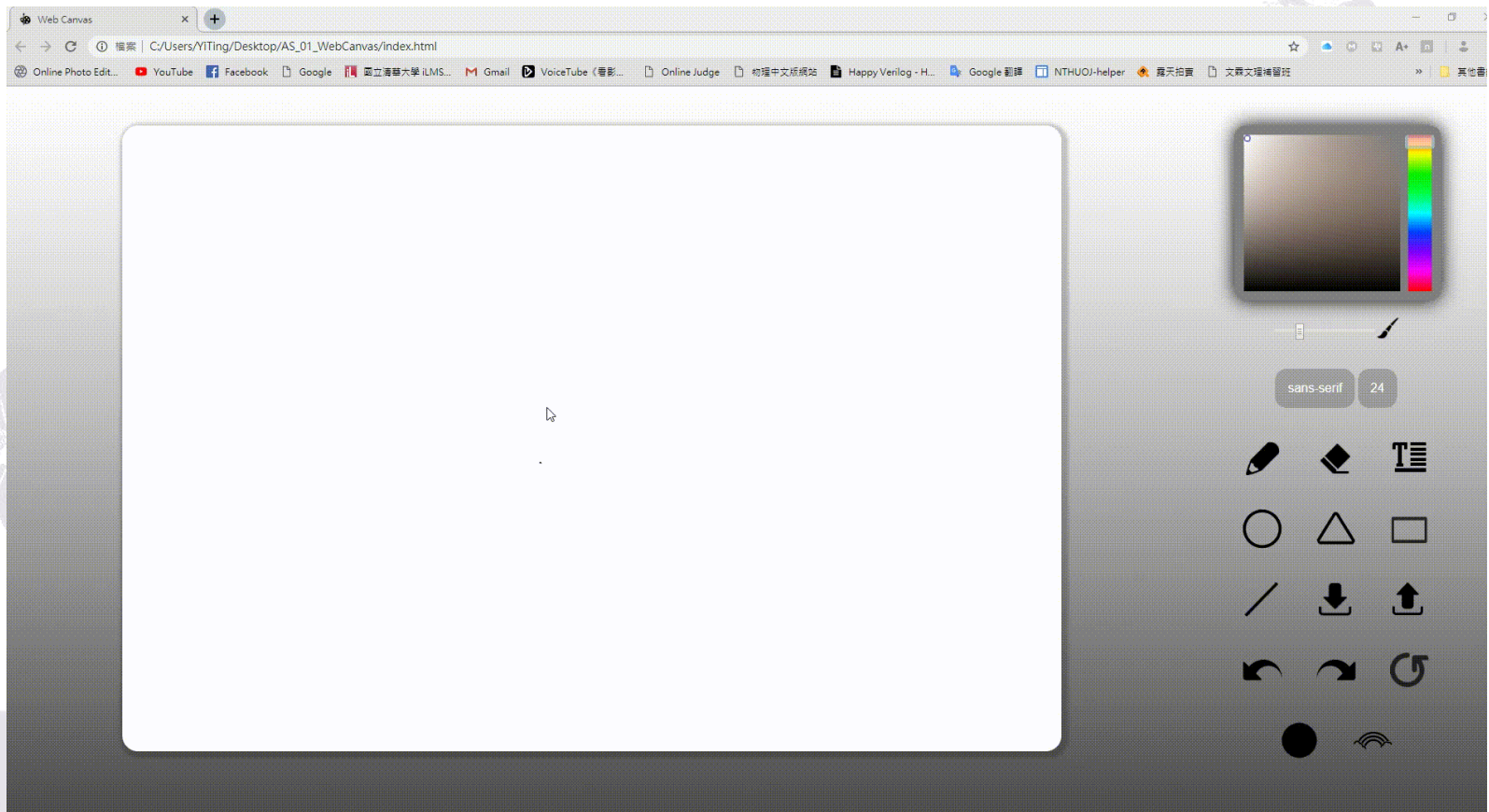
# Image Tool



# 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 **Firestore 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”

資料隱私權 使用者和權限

🔍 搜尋成員

新增成員

成員 ↑

角色



擁有者 ⚙️

[6 個服務帳戶](#) 也可以存取這項專案

[進階權限設定](#)

# Add permission to TA's account

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

電子郵件地址

cgvlab711839@gmail.com

角色

編輯者

取消

新增成員



# 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](#)
- [MD5 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！！！！**

**貼心提醒：**請同學守護zip檔至作業成績公告或期末。

