



User Interface

使用済介面

Note-page

筆記頁面

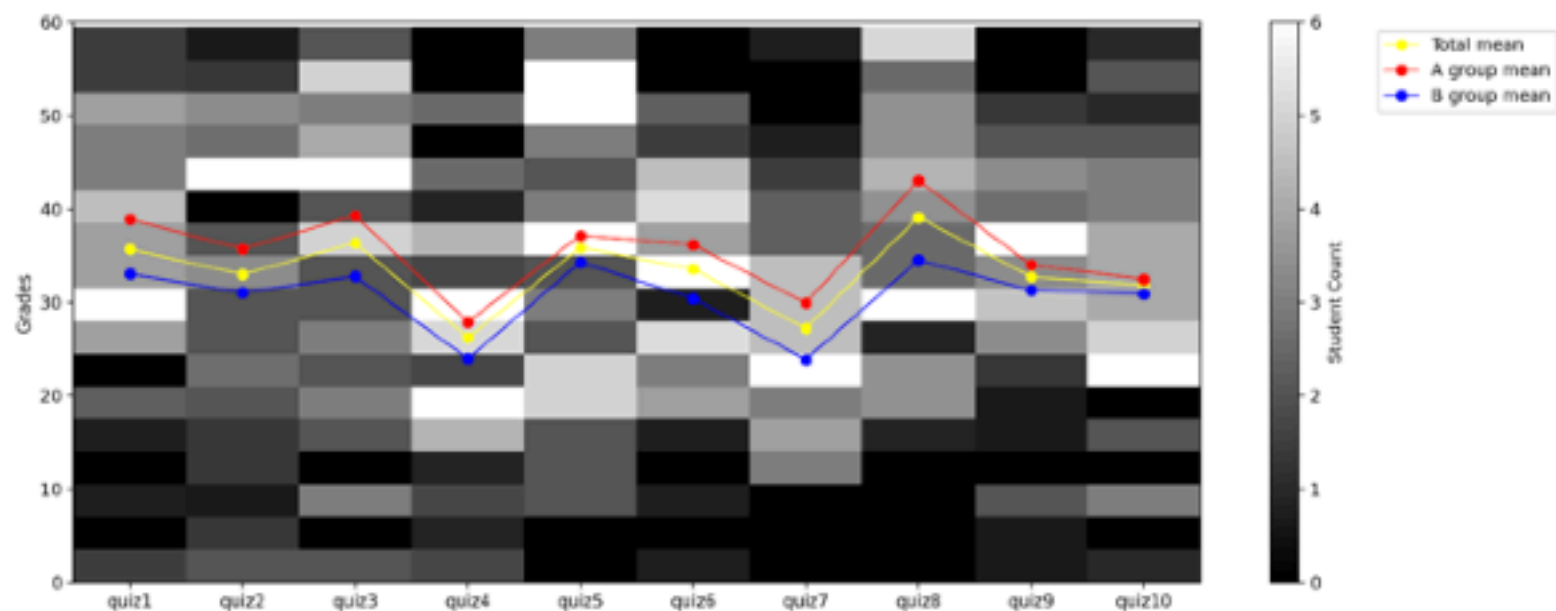
筆記頁面當中顯示的內容是可以點擊展開顯示檔案，如圖示，左邊為圖片、右邊為 PDF 檔案。

目前此頁面還沒有做其他的的互動設計，未來有機會可以再做更近一步的延伸。

py #

Untitled.ipynb

class_histogram.png



.ipynb_checkpoints #

Untitled-checkpoint.ipynb

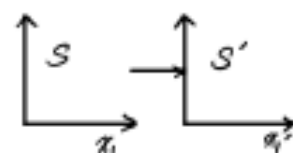
note

EP-merge-note2.pdf

EP-merge-note.pdf

EP Ch. 3 - Relativistic Kinematic .pdf

Consider a frame S' moving along x_1 -axis in the S frame with velocity v_1



condition: The origin O' of S' : $(x_1'=0, t')$
 O of S : $(x_1=vt, t)$

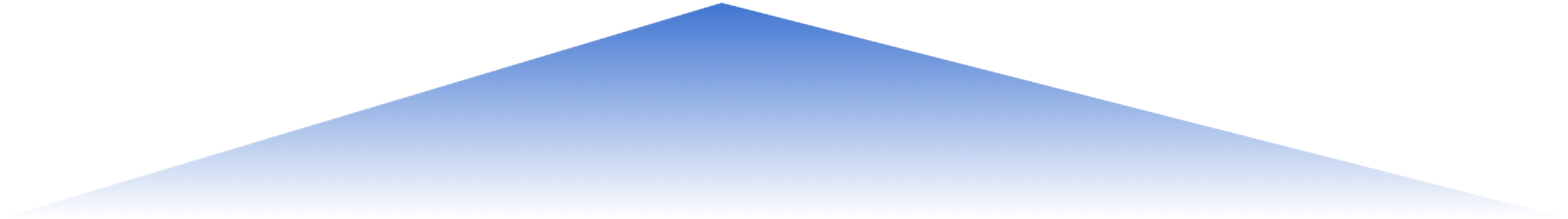
using the relation

$$\begin{pmatrix} x_1 \\ ct \end{pmatrix} = \begin{pmatrix} \cos\theta & -i\sin\theta \\ -i\sin\theta & \cos\theta \end{pmatrix} \begin{pmatrix} x_1' \\ ct' \end{pmatrix}$$

let $x_1'=0$

$$\Rightarrow \begin{cases} x_1 = -i\sin\theta \cdot ct' \\ ct = \cos\theta \cdot ct' \end{cases} \Rightarrow \frac{x_1}{ct} = -i\tan\theta \Rightarrow \frac{v_1}{c} = \beta = -i\tan\theta$$

$$\cos\theta = \frac{1}{\sqrt{1-\beta^2}} = \gamma$$





黑點擊後可跳展開圖片並顯示



黑點車擊後可此展開ID檔案並顯示



Technology Stack

技術雄覇