專屬訂製兒童學習型影片

爸媽的 瑪卡 巴卡 和陌生人的 瑪卡 巴卡 對孩子來說很不一樣!



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發想動機:

將心理學知識結合過去生活經驗



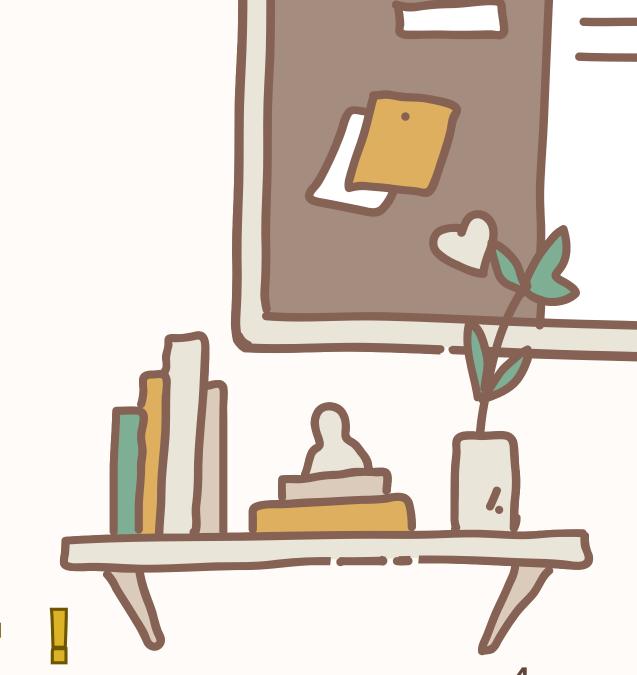
想讓孩童能更幸福且有效的學習~



產品設計:

打造一系列模擬家長語音和臉部的

兒童教學影片



我們能幫家長自由置換自己的臉或聲音

知識基礎:

嬰兒/小孩在聽到熟悉的聲音時較 容易辨認其語句的內容。

因此我們將小孩觀看的學習影片 或卡通透過語音和臉部置換的方 式,將主角替換為父母/熟悉親人 的配音&臉

我們發想了兩種特製版本:

- 1. 專屬配音卡通
- 2. 配音+換臉的真人教學影片



增進小孩觀看這類影片

時的學習效果。



產品一:專屬配音卡通

用組員們的聲音重製了佩佩豬卡通



產品核心理念







以熟悉的聲音 播放的影片 比較容易 鞏固相關記憶

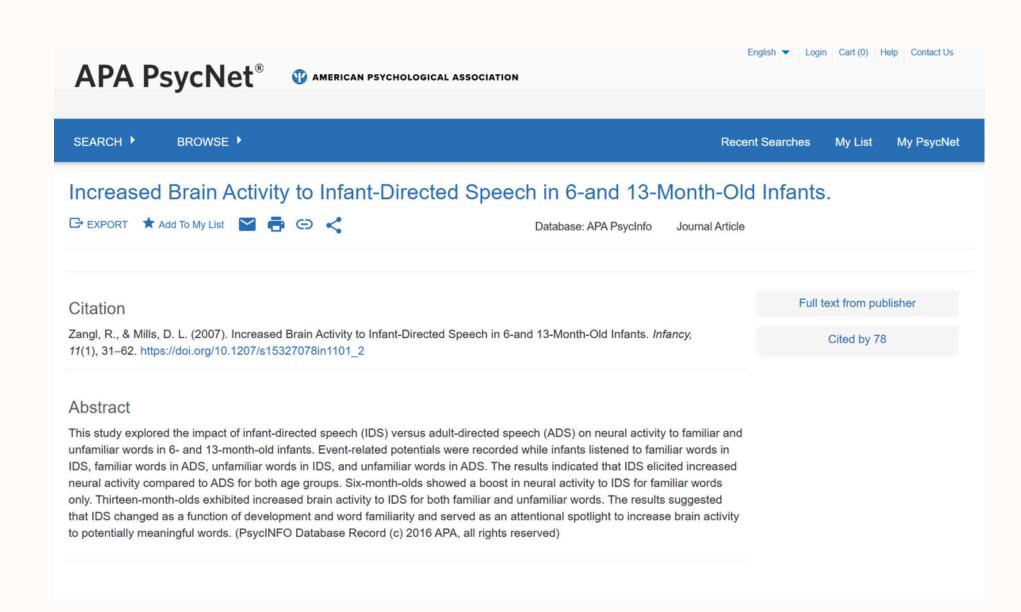


學習成效提升

學習型影片的功效來源-1

通常以IDS呈現

能幫助嬰幼兒提高對語音的注意力、並有助於區分單字。



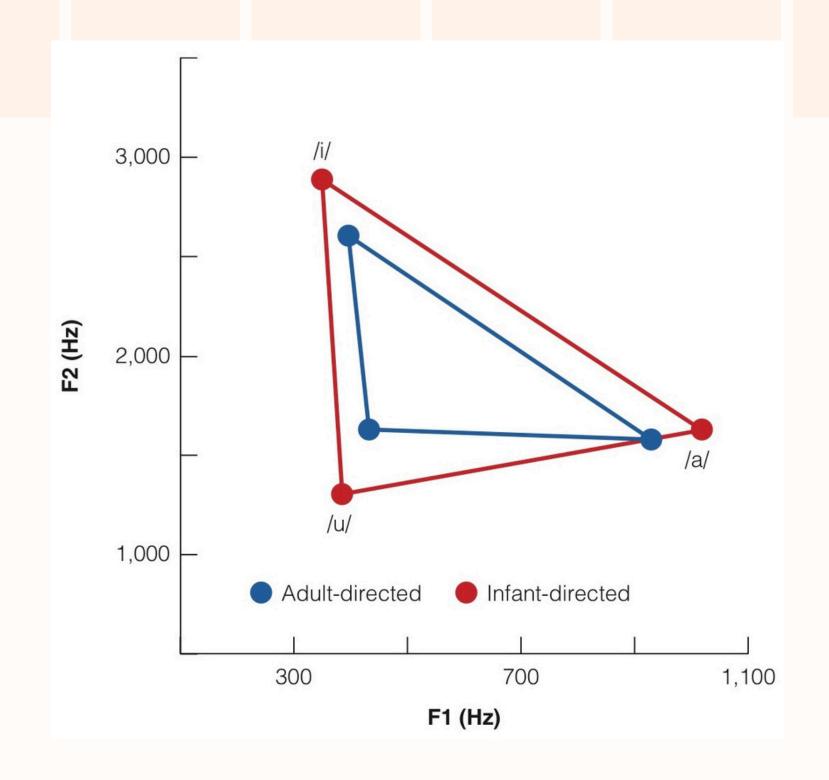


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補充:什麼是IDS

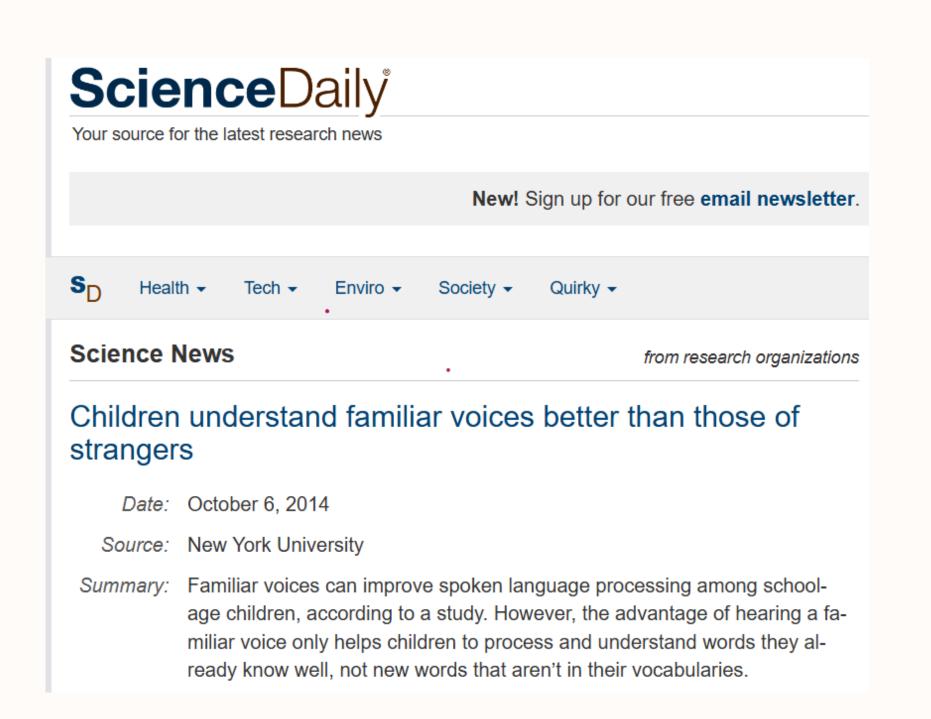
infant-directed-speech

- 1.音調較高
- 2.音調範圍較廣
- 3.語速較慢
- 4.字詞間的分隔更加明顯
- 5.經常重複詞彙 ex:喝水水



學習型影片的功效來源-2

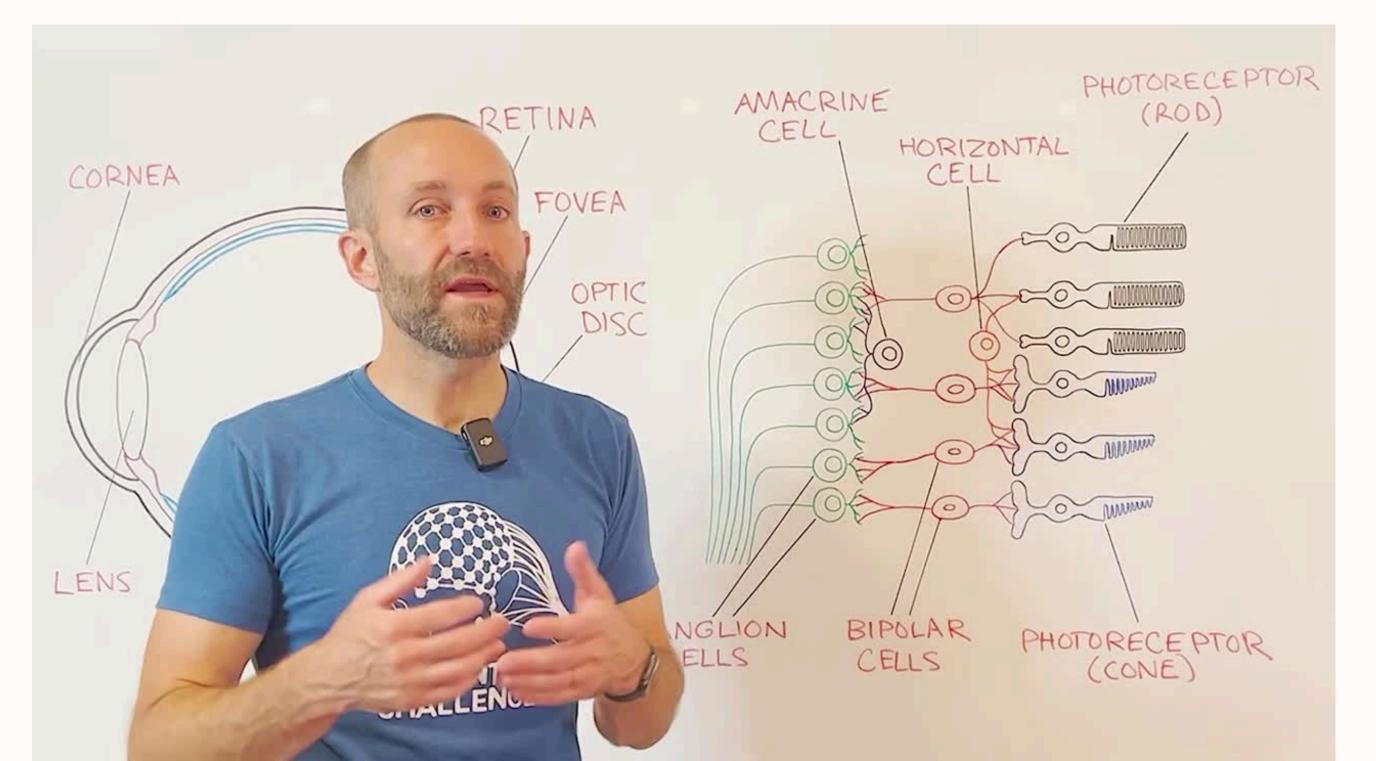
學齡前兒童聽熟悉的聲音 可對於已學過字彙有較好的處理和認識





產品二:配音+換臉的真人教學影片

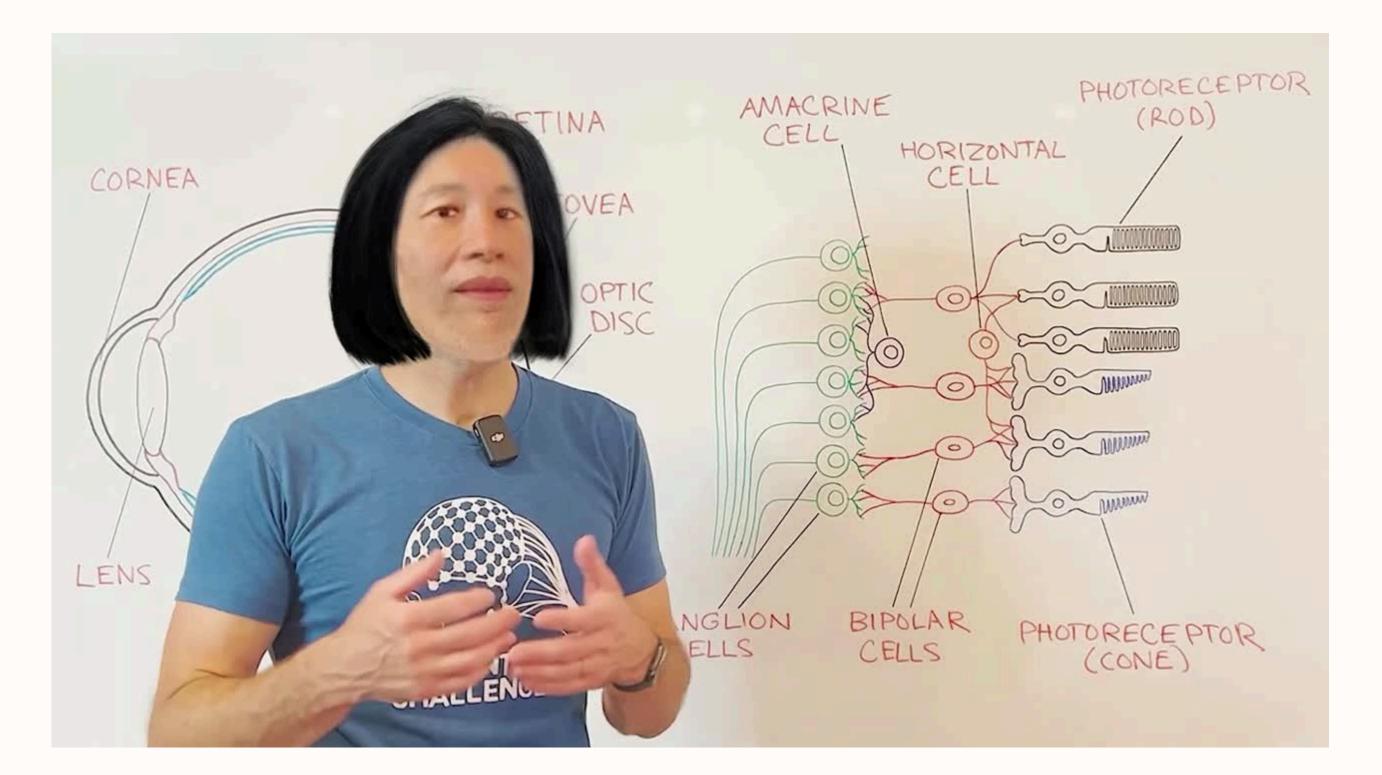
原始影片

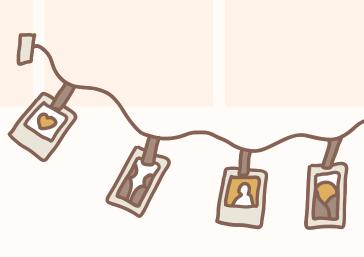




產品二:配音+換臉的真人教學影片

我們置換了素玲老師的聲音來製作講解 visual pathway 的影片



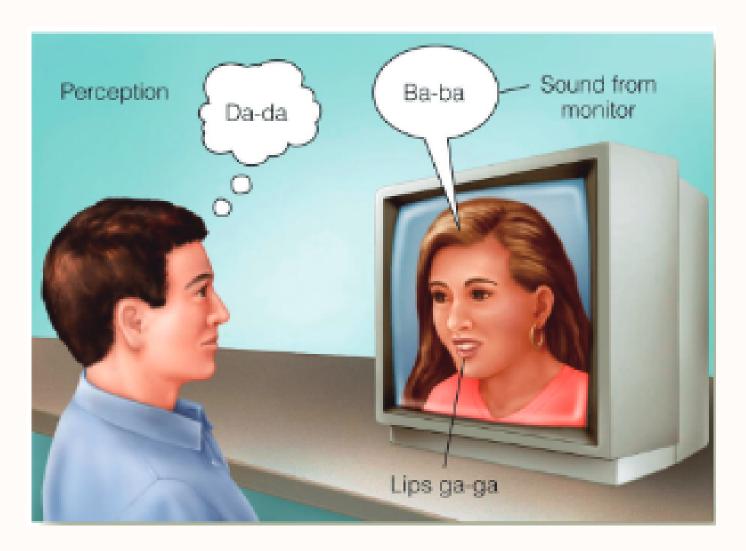


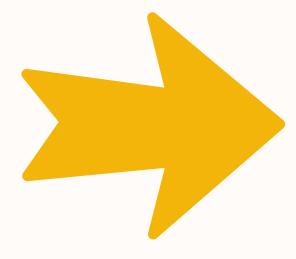


產品核心理念

對語音的知覺不僅仰賴語音刺激 也會受視覺訊息所影響

McGurk & MacDonald (1976)







McGurk effect

學習型影片的功效來源

關於語言學習 熟悉的臉和熟悉的聲音一樣重要

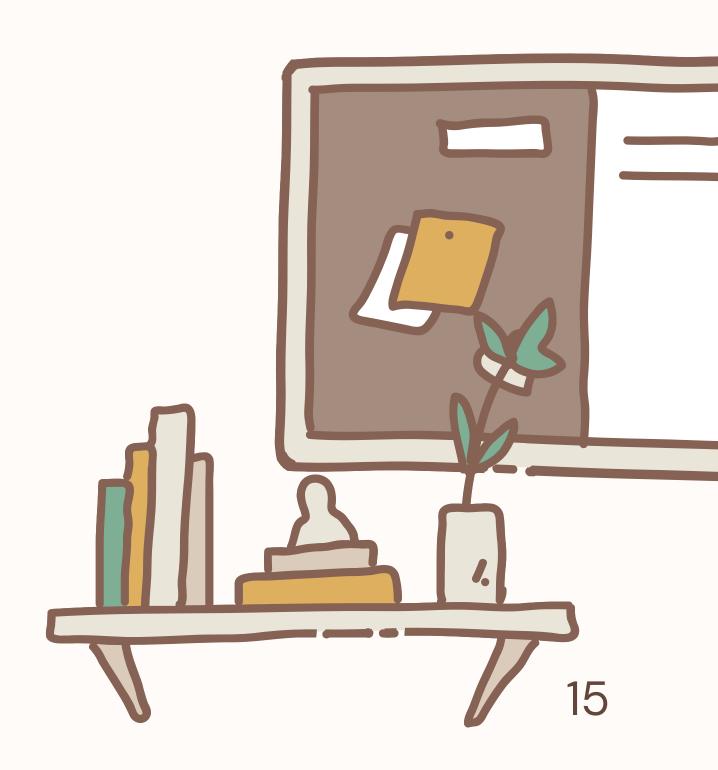
Supporting Communication for Infants and Toddlers

As an infant and toddler caregiver, you also become an infant's and toddler's language and communication partner. Infants grow from turning their heads and responding to familiar faces and voices to being able to express their thoughts, feelings and experiences in wor as toddlers. This amazing development occurs primarily through the interactions and experiences created by adult caregivers who use communication and language with infants and toddlers in responsive and meaningful ways throughout the day. Take a moment to thin about the responsive care you provide and the ways it affects infants' and toddlers' language and communication development.

The handout, *More Than Baby Talk*, outlines ten practices that support language and communication skills of infants and toddlers. The table below highlights the practices that are presented and defined within the handout. In addition, you will find the research evidence supports the use of each practice along with strategies and ideas for using the practice with infants and toddlers.

Kriegstein (2005)

發現聽到熟悉的人的語音 會同時活化 STS 與 FFA 陌生人的語音則不會活化 FFA 顯示語音與臉孔知覺是互有連結的。



產品的SWOT分析



• 親密感提升:父母的聲音能帶來情感連結,讓孩子更有安全感和興趣。

• 個人化體驗:以熟悉的聲音進行教學,更能滿足個別需求。

• 學習投入度高、學習效果好:熟悉的聲音能有效吸引孩子的注意力, 提升學習效果。



優勢

- **家長教育重視程度上升**:隨著少子化,家長更加重視孩子學習,希望孩子贏在起跑點
- **AI迅速發展**: AI未來能更精確處理 和改良父母聲音的表現。
- 市場同類競品少:搶占市場先機





劣勢

- **製作成本增加**:錄製和處理父母聲音的流程較繁瑣
- 技術要求高:需精準同步 聲音和內容,確保教學效果

威脅

- 市場競爭:教育市場充滿其他創新產品的挑戰
- **用戶接受度**:部分家長可 能對技術應用於教育有疑慮

未來展望

前期:



後續:



再開發我們獨家設計的教學影片

Al建模技術提升人臉置換精確性!



The End

Thank You for Listening







參考資料

5.Keffer, N. (2023, April 24). How getting face to face helps young children learn to talk — Toddler Talk. Toddler Talk. https://toddlertalk.com/blog/getting-face-to-face

- 1. LEVI, S. V. (2015). Talker familiarity and spoken word recognition in school-age children. Journal of Child Language, 42(4), 843–872. doi:10.1017/S0305000914000506
- 2.New York University. (2014, October 6). Children understand familiar voices better than those of strangers. ScienceDaily. Retrieved November 29, 2024 from www.sciencedaily.com/releases/2014/10/141006132958.html
- 3.Thiessen, E. D., Hill, E. A., & Saffran, J. R. (2005). Infant-Directed Speech Facilitates Word Segmentation. Infancy: the official journal of the International Society on Infant Studies, 7(1), 53–71. https://doi.org/10.1207/s15327078in0701_5
- 4.Zangl, R., & Mills, D. L. (2007). Increased Brain Activity to Infant-Directed Speech in 6-and 13-Month-Old Infants. Infancy, 11(1), 31–62. https://doi.org/10.1207/s15327078in1101_2





