

「校際傑出學術論文授權暨發表會」

論文摘要表

研究生(中文姓名)	鄧國豐
研究生(英文姓名)	Kuo- Feng Teng
論文名稱	初探視障者使用簡便食品包裝之行為
英文論文名稱	A Research on Explore Visually Impairment Use Convenience Food Package of Behavior
指導教授	丁知強
指導教授(英文姓名)	Chih-Chiang Ting
學位類別	碩士
校院名稱	台南應用科技大學
系所名稱	視覺傳達設計系 (原應用設計研究所) 碩士班
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中文摘要	<p>由研究中得知視障者近年來成因、人口成長與現今各地高齡化社會或逐漸邁入超高齡社會有關，由於高齡者的本身因老化，自身的身體機能逐漸衰弱，</p>

導致易患上眼疾，而其中與年齡有關的眼疾於文獻提到主要是白內障、青光眼、黃斑變性、糖尿病性視網膜病變，其中因老化而患有白內障占全球41.8%(B.Thylefors,1992)，老化與視覺障礙有著相當程度上的關係。

就人類的基本日常生活為「食、衣、住、行、育、樂」該點觀之，「食」這一部分鮮少有研究者針對視障者進行相關研究與論述，本研究即以爲此對於視障者與簡便食品包裝上的使用行爲進行初步的研究，透過先期研究與實體樣本觸摸實驗兩階段進行，所得之資料希望能提供基礎助於日後該方面相關研究與設計。

其將本研究成果之資料與結論歸納如下：

- 一、視障者對於基礎造型(四方型、桶狀)與較常使用的材質(如紙、塑膠膜)的辨識較無問題，袋包裝則較難辨別。
- 二、內容物可被觸摸的包裝，更可辨識何種食品品項。
- 三、包裝撕口的探索上多以紙盒接合處、包裝邊緣的塑膠膜或銳利的刺激點爲主，但不建議以塑膠膜完全包覆食品作爲外包裝，該點使視障者約多花一倍時間進行探索與拆封。
- 四、以製袋充填包裝(三邊密封)的袋包狀，因三角形撕口設計，容易造成撕取一小部分而無法完整開啓包裝；而中間密封處撕口，有內向外拉扯開啓則更加費時與費力。
- 五、馬口鐵(三片罐)包裝，罐蓋雖以易開罐方式開啓，減少傳統開罐器上的時間與使用上的危險，但拉拔的方式仍然費力，而易開罐與罐蓋的接觸面積小，視障者由於無法確定施力的方向，可能將拉環拉斷，仍有不便與危險存在。
- 六、熱封塑膠膜包裝，緊包覆著外包裝造成視障者無法立即辨別撕口處，並且由於塑膠膜韌性與延伸性良好，不易將塑膠膜褪去，拆封上也相當費力。
- 七、紙盒包裝，目前雖在盒面以齒型刀模切出開口處，以按壓的方式幾可將包裝打開，但本實驗中視障者皆是循著紙盒的黏封處邊緣，以手指摳取撕開，原因在於紙盒上的齒型切口於觸摸上不如紙盒的黏封處來的明確與辨識。
- 八、各樣本內的個包裝，多爲調味使用包，包材上採以塑膠製成居多，撕口設計多爲直線型。由於調理包體積較小，採直線型撕口設計使視障者不易辨識，更不容易撕開。
- 九、撕口設計於本實驗樣本中，目前以五角形撕口最易受到辨識與輕易撕開。
- 十、簡便食品中以調理食品包最受視障者青睞，雖形狀上辨識不易，但於主觀評量上對於該項包裝則有著相當好的評比。其原由符合視障者對於簡便食品的需求，即是簡便食用與調理、輕易且易辨識的撕口設計。

英文摘要

From this study knows the cause of visual impairment relate with aging society

or super-aging society in recent years. According to human aging, so susceptible to eye diseases. The literature of age-related eyes diseases present as Cataract, Glaucoma, macular degeneration and Diabetic retinopathy. And one of eye diseases cause age-related to infect to Cataract, it causes 41.8% of global blindness(15829 000 persons).

Human's life includes food, clothing, living, transportation, education and entertainment. But in "food" this field with visual impairment to discuss or research is not much. So this study toward the issue to discuss the visual impairment use convenience food package of behavior analysis.

And the conclusions and recommendations of this study as follow:

1. The visual impairment on the basic of shape (square, barrel) and more commonly use materials (Carton, Plastic film), those without identification of the problem, but the bag packaging is more difficult to identify.
2. The contents of the packaging can be touched, it can be identified more clearly what food category is.
3. The notch exploration more are on junction of package, package edge of plastic film or sharp stimulus points on package. But do recommend completely cover all food package with plastic film, this may cause visual impairment to spent double time to explore and unpack.
4. The bag package of fill and packing (trilateral seal). Because triangle notch design is easy only tear a part of package, cannot open the package totally; the middle seal on the bag package, pull open from the inside out is more time-consuming and laborious.
5. Package of tin can, even though the lid to open the cans to reduce the time and dangerous of using. But lid to open is still laborious, and it easy to pull off the ring-pull, because visual impairment can not make sure about the direction of pull.
6. Using hot and plastic film to package, it may cause plastic film cover on food outside package tightly, and made visual impairment can not find the notch. Further because plastic film is good extension, so it is difficult to tear, and unpack is laborious.
7. Carton Box package, even though now use Die-cut to make a notch, but in this study, all visual impairment are follow the junction of carton box to unpack with their finger. The reason is the Die-cut not obvious on carton box with touch.
8. Item package of each sample almost is seasoning packets, the package material is plastic, and the notch most is straight. But seasoning packets always is small, the straight notch may made visual impairment can not identify and difficult to tear.
9. The notch design in these convenience food package samples, the pentagon notch is most vulnerable to identify and easy tear.
10. Visual impairment consider that the prepare meal package is most popular

in Convenience food package, even though it is hard to identify the shape. Because it matches visual impairment's needs, it is convenient to eat and use, easy to find the notch and it can be store more than one year.