

Shop lighting and Colour preference

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About your customer...



- Do you really know your customer?
 - Why they enter your store, instead of the one next to you?
 - Why they buy product from you?
- Honestly, most shop owners don't. They did their best in the shop decoration and keep fingers crossed.
- A story about how light influence the attractive of people, would be shown.



Background

- There is a fashion shop located at the center of a small city. With multiple brands, they sell men/women clothes.
- The shop opened before lunch, and the people flow get crowed at after 1800 (after supper).
- There are 4 kind of light we are talking:
 - External light: daylight or artificial light (4000K)
 - Window lighting: in side display window
 - Spot light: on top of the model
 - Ambient light: uniform light inside the shop
- To keep the confidential, all picture/number are illustrated but with realistic reflection.



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How the local people sense the colour?

- We model the preference of the lighting.
 - Correlation of the **window lighting** and **the number of people** who enter the shop by PCP* method.
 - PCP of visibility vectors shows how people sensitive to certain colour, in average.





*PCP=Preference colour probe



What colour that people would buy?

- Again, we correlated the **product sale record** and the colour of **the nearest model**
- PCP of buying vectors **together with*** the visibility vectors, shows how people like to certain colour, in average.

Colour of model	Visit	Buy
Red	25	15
Green	20	12
Blue	13	10

*A reasonable buying should be happened from visibility to purchasing.







Strong P (purple), G (green), RP(red-purple): local people's preference Weak B (blue) and Y (yellow): local people dislike them

How to improve?

- Increase the window's lighting will increase the incoming people.
- We suggested 3000K at 800 Lux.

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- It is not so wise to modify the ambient lighting unless the illuminance level of spot light increases simultaneously or a low-price shop (model is less relevant).



Other recommendations



- There should be purple, green and red in the display window to attract people's eyes and their passions to buy.
- Be careful of yellow colour in the display model, especially under warm white spot.
- Keep monitor the PCP diagram as the change of the season and fashion interest.



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For more information, please contract to the inventor of PCP method: Dr. Cadmus Yuan cayuan@Ichijouriki.com www.Ichijouriki.com