Color Universal De

Take a look at these with Variantor

DANGER!! keep out

Why do we need color universal design?

Perceived color

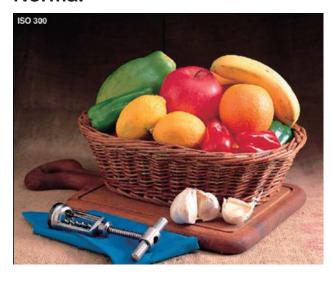


For color vision deficient people, it is difficult to distinguish colors between, for example, red and green with similar intensity. Color vision deficiency affects a significant number of people. It occurs in about 6-8 % of males in Europe and about 200 million people worldwide.

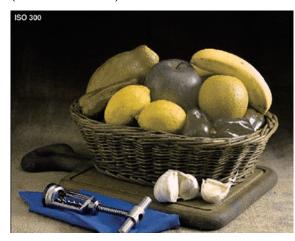
Color Universal Design

Dichromatism and anomalous trichromatism

Normal



Protanopia (no red cones)



Deutanopia (no green cones)



Protanomaly (anomalous red cones)



Deutanomaly (anomalous green cones)



Color Universal Design Coloration examples around us



Textured paving blocks

Gray tiles and pink textured paving blocks are difficult to distinguish.



Road sign

Texts are emphasized in red, but unfortunately they are difficult to read against a black background.

Color Universal Design

Before and after color universal design 1

BEFORE

Red texts and black texts look similar. It is difficult to realize that the red texts are particularly important.

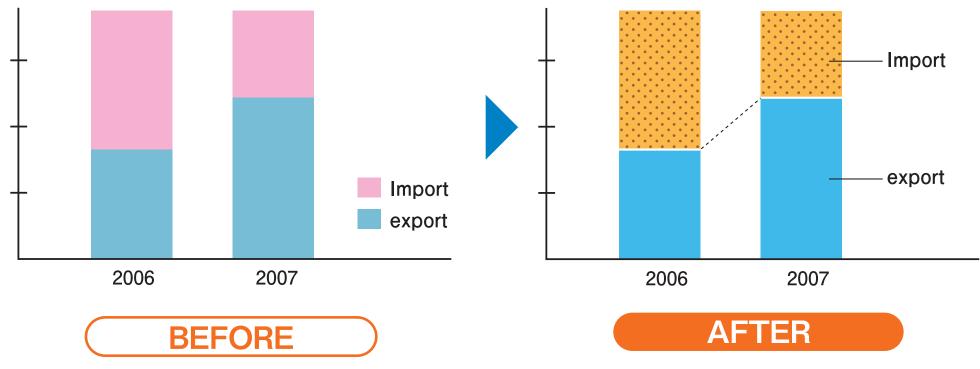
Please do not cut corners on something as important as this project.



AFTER

Red color is changed to orange. The font is also changed to give greater emphasis. Please do not cut corners on something as important as this project.

6 Before and after color universal design 2



- Pink and light blue are hard to differentiate.
- Color legends are also confusing.

- The color is changed so that the two colors are easily recognizable.
- Pattern is added to the graph.
- Border lines are added to separate the two colors.
- Legends are directly written in the graph.