



DOES YOUR EYE COLOUR AFFECT THE WAY YOU SEE COLOURS?



Aim

Our aim is to see if your eye colour will affect the way you see this image.

Hypothesis

We think that the people with darker eye colours will see different compared to lighter coloured eyes. We think most people with lighter eyes will see the dress as white and gold, and darker coloured eyes will see blue and black.

Method

1. Create a table where we can input results easily.
2. Survey an even amount of people of blue, green, brown and hazel colour of all different age groups.
3. Record their ages and which of the two options they see
4. Turn tally into graphs for lighter and darker.

Limitations

It can be hard to find people of different ages with the exact eye colour that we need. This is because we want to make it a fair test so we are surveying 10 people with each eye colour. This is proven as half the population has brown eyes making it the most common, and a quarter has blue, whereas only 5% have hazel eyes and 2% have green eyes.

Raw Results

Blue eyes	
Ages	Dress
Person 1: 13	Gold & White / Blue & Black
Person 2: 11	Gold & White / Blue & Black
Person 3: 16	Gold & White / Blue & Black
Person 4: 50	Gold & White / Blue & Black
Person 5: 13	Gold & White / Blue & Black

Green eyes	
Ages	Dress
Person 1: 13	Gold & White / Blue & Black
Person 2: 53	Gold & White / Blue & Black
Person 3: 43	Gold & White / Blue & Black
Person 4: 39	Gold & White / Blue & Black
Person 5: 18	Gold & White / Blue & Black

Brown eyes	
Ages	Dress
Person 1: 13	Gold & White / Blue & Black
Person 2: 48	Gold & White / Blue & Black
Person 3: 8	Gold & White / Blue & Black
Person 4: 10	Gold & White / Blue & Black
Person 5: 39	Gold & White / Blue & Black

Hazel eyes	
Ages	Dress
Person 1: 13	Gold & White / Blue & Black
Person 2: 45	Gold & White / Blue & Black
Person 3: 67	Gold & White / Blue & Black
Person 4: 72	Gold & White / Blue & Black
Person 5: 13	Gold & White / Blue & Black

Image

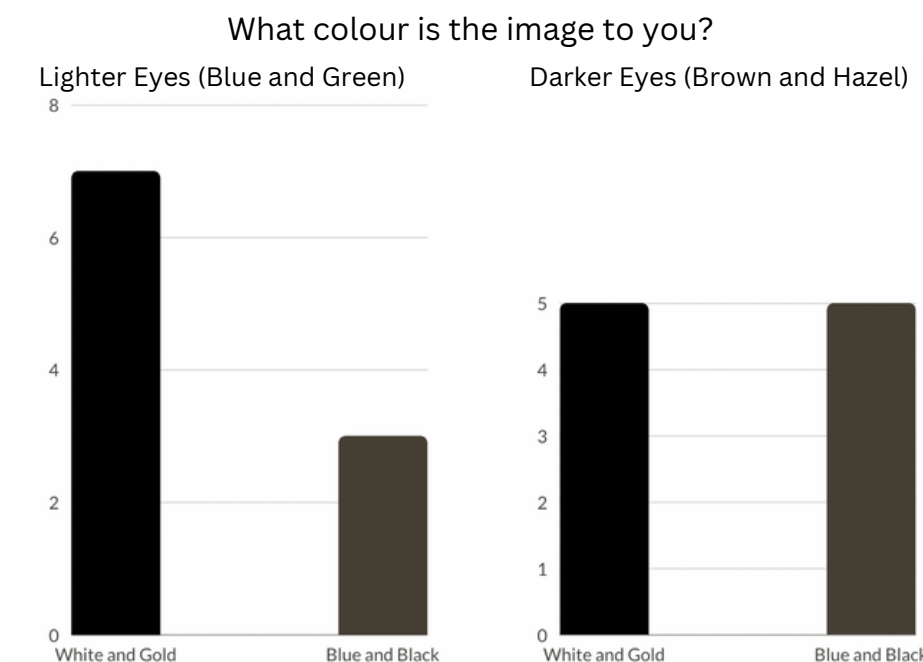


Research

Through some background research we have also discovered that eye colour does make small differences to the way you see. People with lighter eyes are more sensitive to brighter colours because they have less pigment in the iris.

Overall our experiment went well as we achieved our aim in discovering if our eye colour really does affect the way you see. The only problem we encountered was that it was hard to find a lot of people from all different age categories with different eye colours as some are rarer than others

Graphs



Conclusion

In conclusion of our experiment and as seen in the above graphs, we found that lighter eyes (blue and green) are found to see mostly gold and white on the dress whereas darker eyes (brown & hazel) evenly saw both options. We predicted correctly that majority of people with lighter eyes would see white and gold, however we weren't expecting an even amount of people seeing both options for those with darker eyes.

Evaluation