




Who's More/Less Alike? 



### Genotype and Phenotype: What You Get Isn't Always What You See

 Quick Check: What is the difference between **genotype** and **phenotype**? 

Did you use *genotype* or *phenotype* to draw a conclusion and make an assertion about likeness, or differentness? 

What do people *generally* use to determine skin color?

What actually determines skin color?

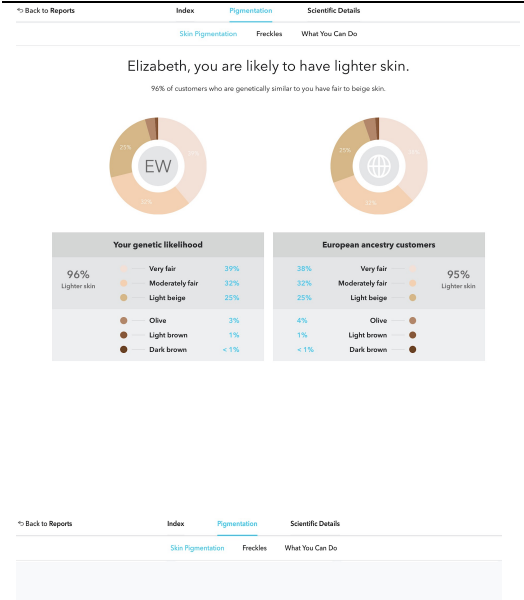
Notes:

**Let's take another look at your report for traits:**

You should be able to find them under the categories of → Skin → Pigmentation → Freckles

Note: sometimes freckles are hard to see on dark-skinned individuals, but give it a try!

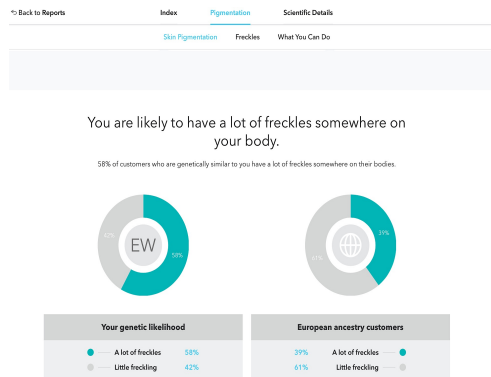
What Elizabeth saw:



What you saw:

Surprised by anything?

Does your genotype match your phenotype?



Surprised by anything?

Does your genotype match your phenotype?

**What do you see when you look at all of the data together?**



How do <i>you</i> describe your skin color?	
How does one of your friends/classmates describe your skin color?	
What did your report predict about your skin color?	

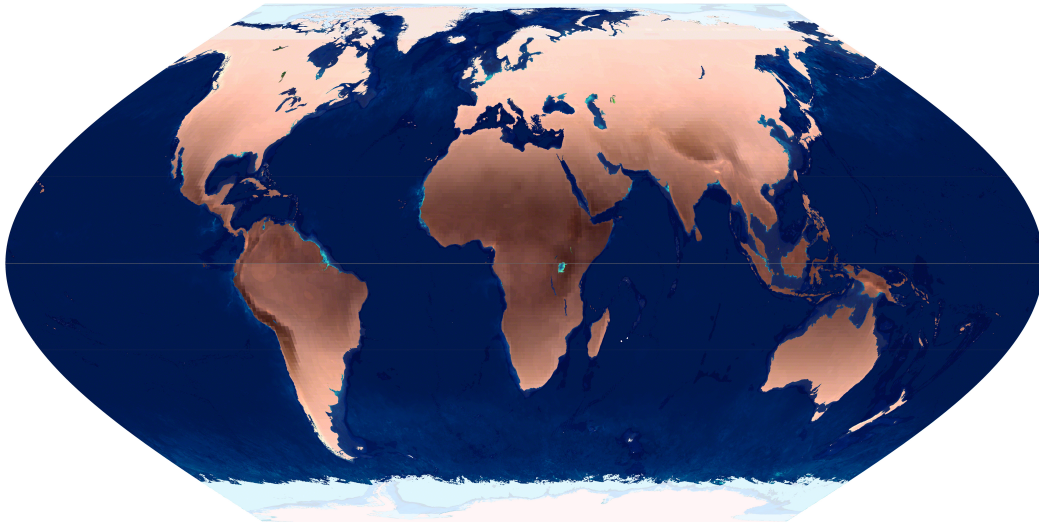
**Skin color and geographic placement** (someone pass the sunscreen, vitamin D, and folate)

👋 Quick Check: What do you know about skin color and where people live on the Earth?

How has skin color evolved over time?

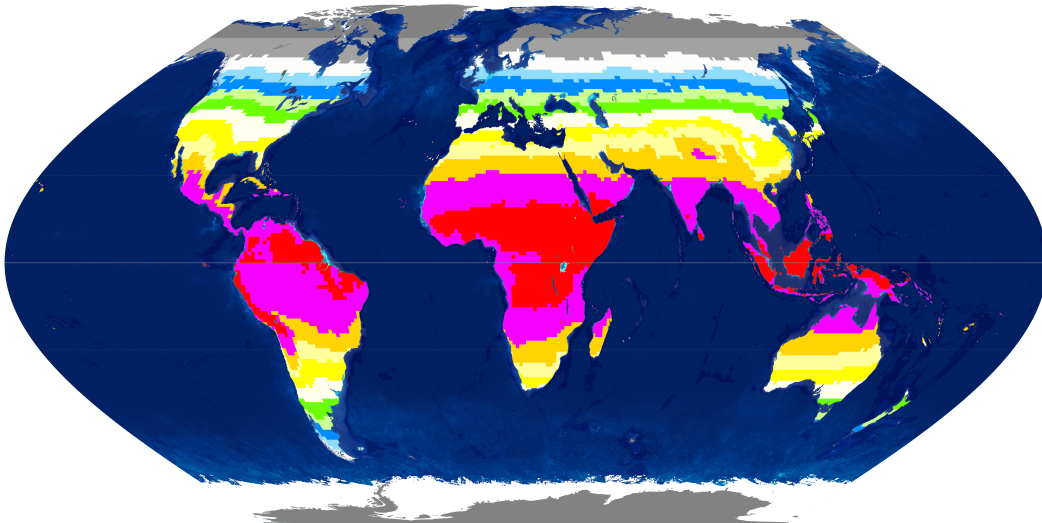
★ What does “evolve” mean?

Take a guess: do you think geography (where you live) plays a role in the evolution of skin color?



This image represents the distribution of skin color across the globe.

What do you notice?



This image represents the distribution of UV-B radiation across the globe.

What do you notice?

Think About It: What's the connection between these two images?

