



# Fashion Colors Prediction

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# Problem Statement

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- The United States apparel market was valued at approximately **368 billion** U.S. dollars as of **2019**.
- **Top clothing companies** lead the global fashion industry.
- Many stores and brands **use data** to predict the rise and fall of trends.
- **Fashion show** is one of the way leading brand showcase their new products.

## Data Source



- **Vogue Runway**
- Two collections a year: **spring/summer** and **fall/winter**
- **50** leading brands
- **2,000+** Fashion pictures

## Scrape Data

Scrape the picture from  
Vogue.com

## YOLO v5

YOLOv5 is a family of  
compound-scaled object detection  
models trained on the COCO dataset

## Crop Object

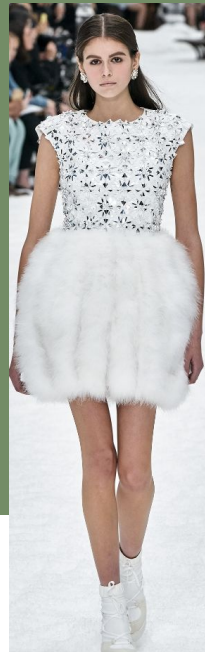
Crop and save the model

## Remove Background

Remove background  
using rembg library

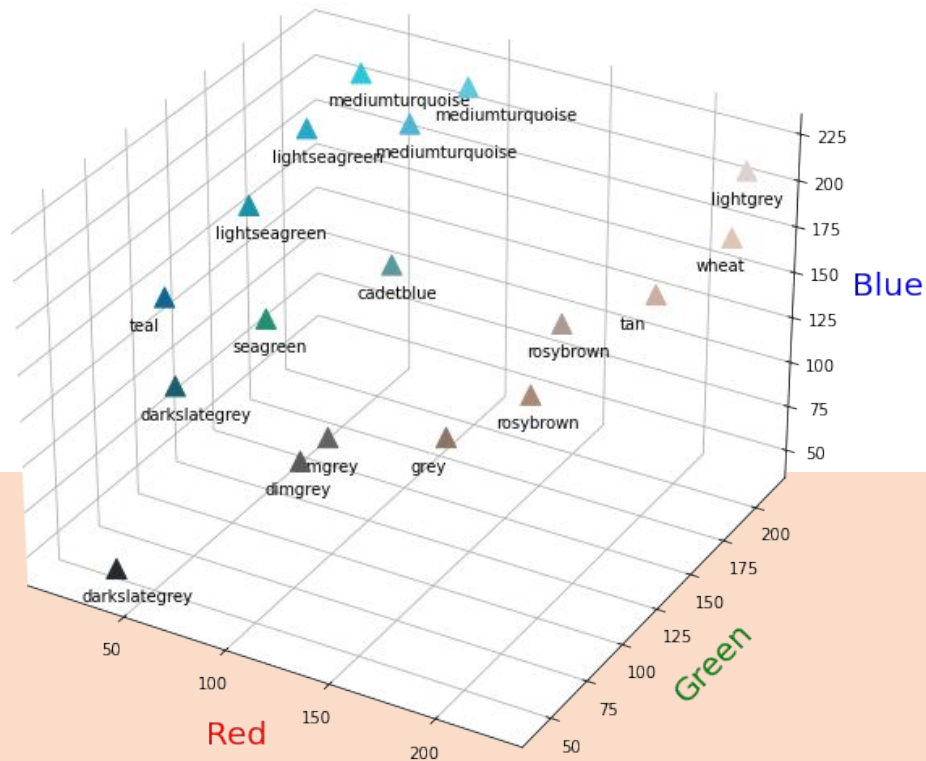
## Resize

Resize each image to save  
computation power later

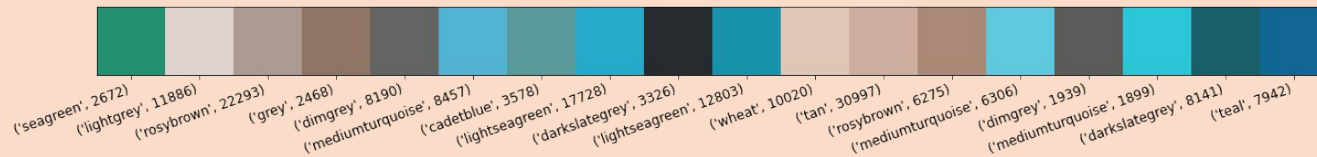




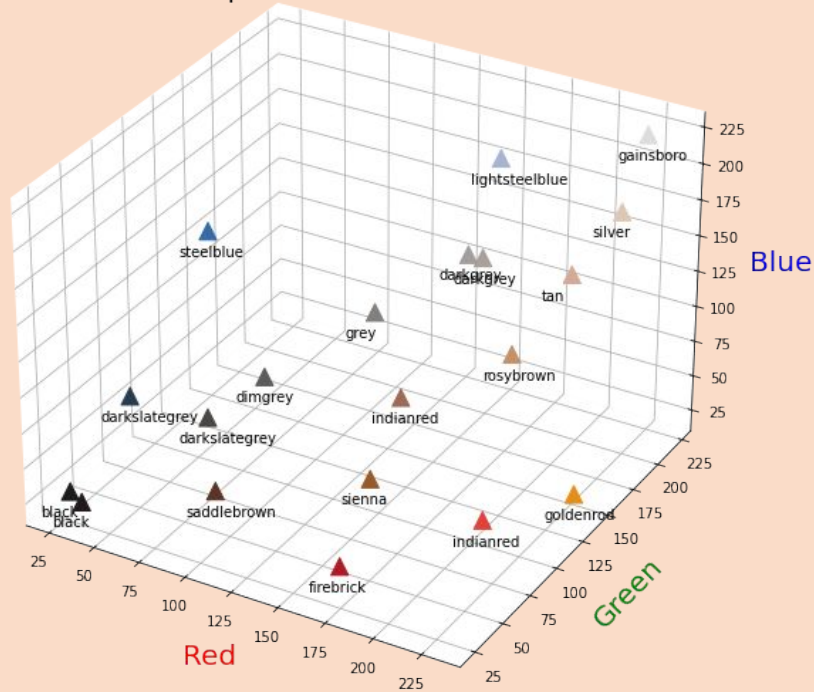
## Popular Colors



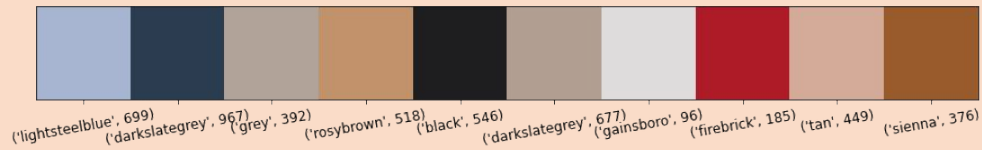
## Popular Colors (with frequency)



Popular Colors in 2021



Popular Colors in 2021 (with frequency)

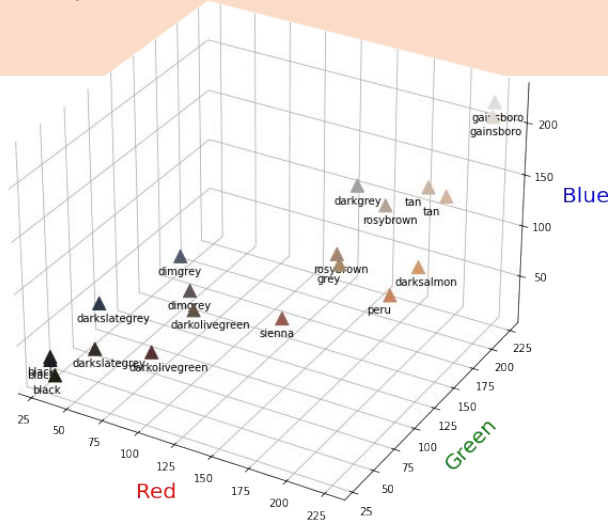


## Popular Colors in 2021

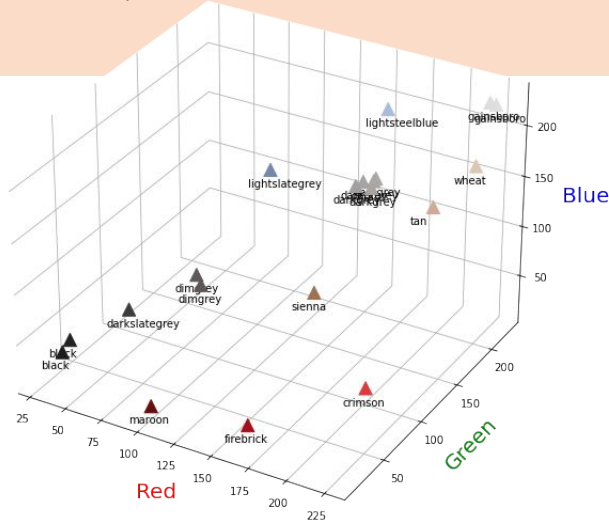
- Popular Color for 2021, including fall and spring season
- There is more coming up for fall season

# Popular Colors for Different Brands

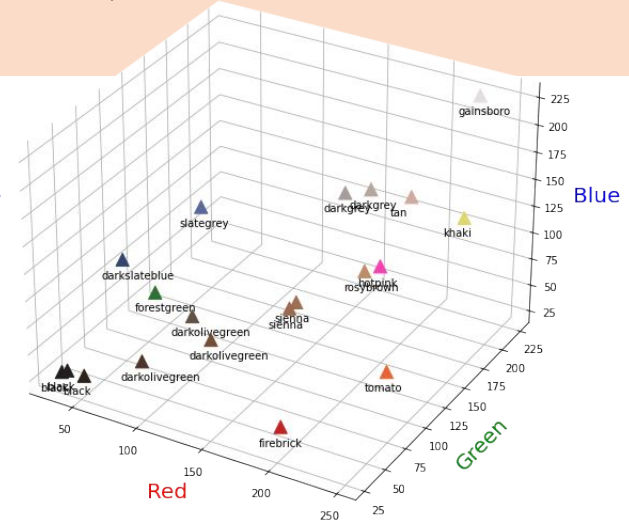
Popular Colors for Christian Dior in 2021



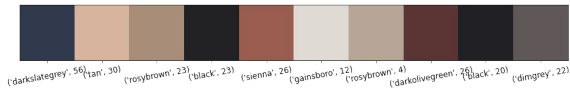
Popular Color for Fendi in 2021



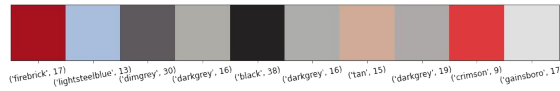
Popular Colors for Valentino in 2021



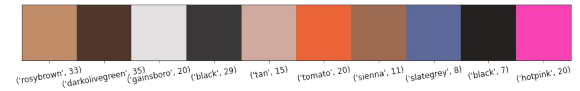
Popular Colors for Christina Dior in 2021 (with frequency)



Popular Colors for Fendi in 2021 (with frequency)

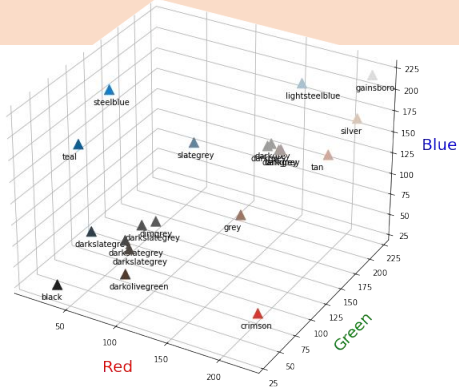


Popular Colors for Valentina in 2021 (with frequency)

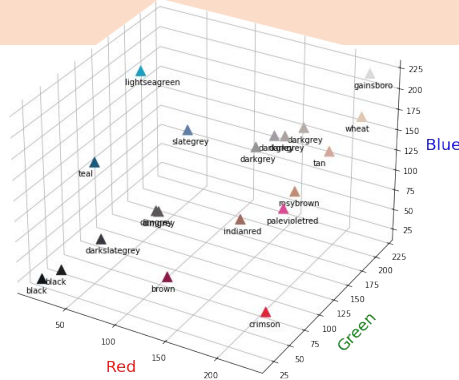


# Popular Colors for Different Years

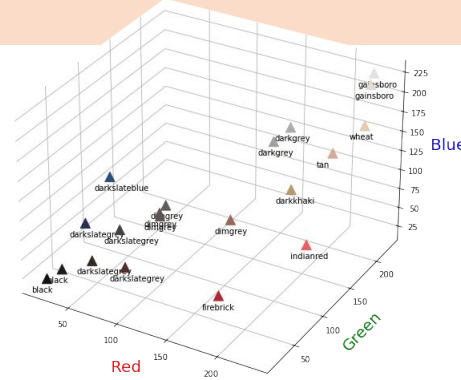
Popular Colors for Channel in 2018



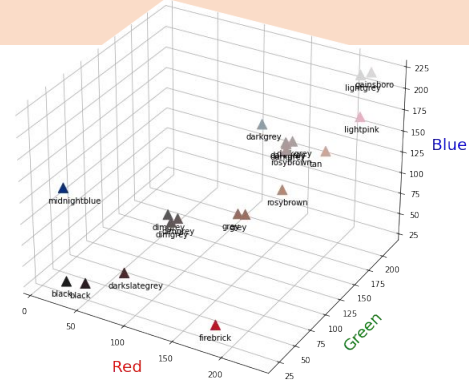
Popular Colors for Channel in 2019



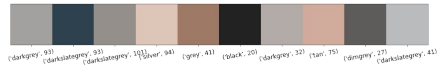
Popular Colors for Channel in 2020



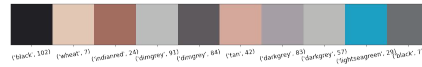
Popular Colors for Channel in 2021



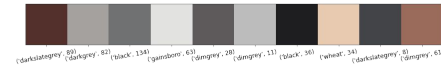
Popular Colors for Channel in 2018 (with frequency)



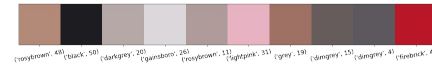
Popular Colors for Channel in 2019 (with frequency)



Popular Colors for Channel in 2020 (with frequency)



Popular Colors for Channel in 2021 (with frequency)





# What's Next?

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- Exclude models' skin color
- Big Data
- Deployment
- Fashion consultant



# Thanks!

Does anyone have any questions?

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