

COLORLY

CSCI 201 FINAL PROJECT PRESENTATION

----- Shop. but. with. colors. -----

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PROJECT DESCRIPTION

- Brief introduction
- Source of inspiration
- User flow
 - Login & Sign-up
 - Choose your own color palette
 - Search!
 - Submit privately / publicly

Shop. but. with. colors.

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Colorly

Shop. but. with. colors.

Don't have an account? [Sign Up!](#)

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Create Your Colorly Account

WALK THROUGH OF PAGES - HOME

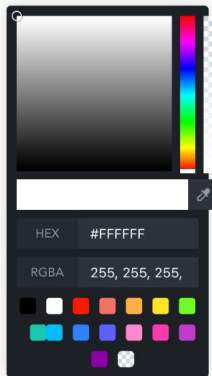
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Colorly

Color Boxes:



Change Color Box:



510™ Skinny Fit
Levi's® Flex Men's
Jeans

Description:
510™ Skinny
Jeans are a sharp
essential.

Price: \$69.50

Source: [Levi's](#)



George Men's
Baseball Hat

Description:
George Men's
Baseball Hat

Price: \$3.72

Source: [Walmart](#)



Fine-knit Sweater

Description: Fine-
knit sweater in
soft cotton fabric
with a round neck,
long sleeves, and
ribbing at cuffs
and hem.

Price: \$19.99

Source: [H&M](#)



Cropped Hooded
Sweatshirt

Description: Short
sweatshirt with
adjustable
drawstring hood
and long sleeves.
Rib trim.

Price: \$25.90

Source: [Zara](#)





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My Shopping Cart

[Share My Cart](#)

Item	Price
 <p>Name: Cropped Hooded Sweatshirt Description: Short sweatshirt with adjustable drawstring hood and long sleeves. Rib trim. Price: \$25.90 Source: Zara</p>	\$25.90
REMOVE	
 <p>Name: George Men's Baseball Hat Description: George Men's Baseball Hat Price: \$3.72 Source: Walmart</p>	\$3.72
REMOVE	

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Community



[karim's](#)
[Cart](#)

Unlike



[william's](#)
[Cart](#)

Like

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Outfit Leaderboard

Rank	Author	Link	Likes
1	karim	Outfit	1
2	william	Outfit	0

BACK-END FUNCTIONS - COLOR-COMPARING ALGORITHM

1. Take palette_1 (the user's input) and palette_2 (the stored palette)
2. For each color in palette_2:
 1. Compare the color with each color in palette_1 and store the minimum distance
 2. If that minimum distance is less or equal to a constant maximum distance (50), we return True
3. Return False

BACK-END FUNCTIONS - DATABASE

```
[mysql> show tables;
```

```
+-----+
| Tables_in_colorly_db |
+-----+
```

```
| cart
| cart_items
| hibernate_sequence
| item
| outfit
| outfit_items
| outfit_likers
| user
```

```
+-----+
8 rows in set (0.00 sec)
```

```
mysql> |
```

```
mysql> DESCRIBE cart;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
owner_id	int	YES	MUL	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE cart_items;
```

Field	Type	Null	Key	Default	Extra
cart_id	int	NO	PRI	NULL	
items_id	int	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE item;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
brand	varchar(255)	YES		NULL	
description	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
picture	longtext	YES		NULL	
price	varchar(255)	YES		NULL	
source	longtext	YES		NULL	
color1	varchar(255)	YES		NULL	
color2	varchar(255)	YES		NULL	
color3	varchar(255)	YES		NULL	

```
10 rows in set (0.00 sec)
```

```
mysql> |
```

```
mysql> DESCRIBE outfit;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
owner_id	int	YES	MUL	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE outfit_items;
```

Field	Type	Null	Key	Default	Extra
outfit_id	int	NO	PRI	NULL	
items_id	int	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE outfit_likers;
```

Field	Type	Null	Key	Default	Extra
outfit_id	int	NO	PRI	NULL	
likers_id	int	NO	PRI	NULL	

```
2 rows in set (0.00 sec)
```

```
mysql> DESCRIBE user;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	
email	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
username	varchar(255)	YES		NULL	
cart_id	int	YES	MUL	NULL	

```
5 rows in set (0.01 sec)
```

```
mysql> |
```

AUTHENTICATED / GUEST USER: DIFFERENCES

- A guest user cannot have a cart
- A guest user cannot add to cart
- A guest user cannot share an outfit
- A guest user cannot like outfits (on the community page)

MULTI-THREADING FUNCTION

- Our community and ranking pages support multi-threading through their like/dislike features
- In particular, we allow multiple users to like an outfit at once
- Because every request is **safely** treated as a thread, the like registration and count are kept accurate

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DEMO!

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