

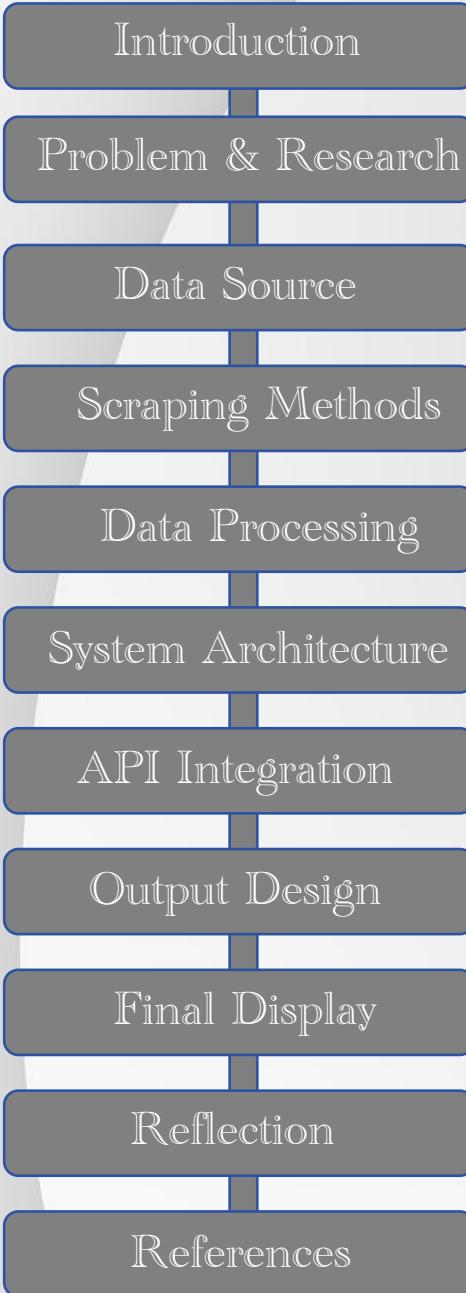
# Wear Your Mood

Big Data, The Self and Social Platforms  
Prepared by Xingyu Pu  
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# Table of Content

**GitHub:** <https://github.com/XingyuPu925/wear-your-mood-XingyuPu.git>



# Introduction

With the rapid growth of Internet technology and rising living standards, personalized fashion recommendation systems have become a popular research topic. Color, as a key element of fashion, can directly reflect and influence emotions. However, traditional color recommendation systems often focus on objective factors like season and skin tone, while overlooking users' emotional states.

This project presents an emotion-based fashion color recommendation system. It analyzes user-input emotional keywords, crawls matching color schemes from professional color websites, and uses deep learning to generate personalized outfit suggestions.

The system addresses three main challenges:

- How to find emotion-related color combinations online
- How to present these color palettes with interactive features
- How to turn color palettes into practical fashion advice

Built with Python Flask, the system combines web crawling (from sites like Colors and ColorHunt) with DeepSeek API for fashion suggestion generation. A responsive front-end displays the results, making the system useful both for everyday users and fashion designers seeking color inspiration.

# Introduction

## User Group

- Emotion-sensitive youth: who are aware of their mental states and use clothing as self expression.
  - Fashion-forward users: interested in trying color-based outfit suggestions tied to moods.
  - Creative technologists: seeking interactive digital artworks merging data with aesthetics.
- Especially relevant for Gen-Z, this platform combines fashion psychology, color theory, and interaction.

The primary users for “Wear Your Mood” are young, digital-native individuals—primarily GenZ—who are highly self-aware and accustomed to expressing their emotions through visual mediums. These users are fluent in digital aesthetics, fashion culture, and emotional language.

In an era of mood trackers, social filters, and Instagram aesthetics, fashion has become a key medium of emotional storytelling. Many users find comfort and empowerment by dressing in a way that reflects their mental state. However, there's currently a gap between emotional data and fashion recommendations in an interactive, visual form.

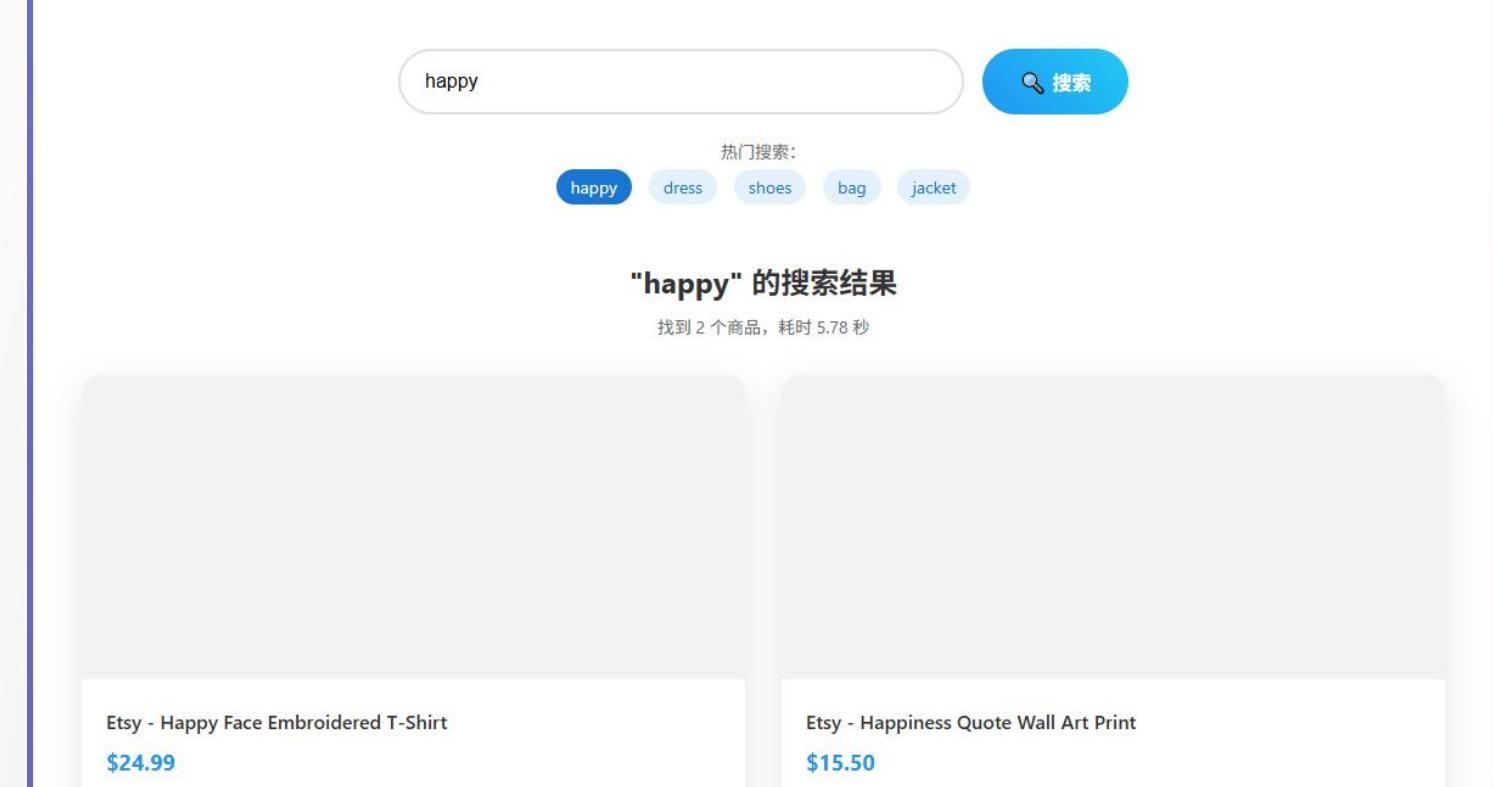
This project bridges that gap—offering an intuitive, playful way for users to translate their inner feelings into wearable color combinations and artistic visuals. It enhances emotional awareness, supports mental wellness, and inspires creative dressing based on mood



# Problem & Research

Initially, my idea was to collect product images from fashion websites based on users' emotional input. I targeted platforms such as ASOS.com and Pinterest, hoping to directly crawl fashion-related visuals linked to specific emotions. However, during implementation, I discovered that most of these websites actively block bots, preventing automated data collection.

For example, when scraping ASOS or Etsy, the responses only included product names and prices, but no valid image URLs. I tested many similar platforms, and all presented the same issue. On the other hand, websites without anti-scraping measures often lacked emotional keyword coverage, making the available images too limited or irrelevant.



So I decided to get some color matching website color, because most of the color can get text, numbers, symbols (such as #334455 or rgb (255,255,255), etc.) can be generated in the front-end, compared to the picture crawling will be a little simpler, but in practice found that some of the site also has an anti-crawl mechanism, I decided to use a mixed collection strategy, combined with direct access to the target website and Google search in two ways, has enhanced the scope of crawling, and finally let most of the emotional keywords are able to get the corresponding color matching suggestions

# Color Psychology

<https://www.verywellmind.com/color-psychology-2795824>

Color psychology suggests that colors have a significant impact on human emotions and behavior. Warm colors such as red, orange, and yellow are often associated with feelings of energy, excitement, and urgency, while cool colors like blue, green, and purple tend to evoke calmness, relaxation, or sometimes sadness. Although cultural background and personal experiences can influence individual responses to color, many of these associations are widely recognized. The theory is frequently applied in real-world settings—from hospital walls painted blue to reduce anxiety, to retail environments using red to stimulate action. While the scientific basis for color–emotion links is still evolving, color psychology remains a practical and intuitive framework for designing mood–based systems. This research directly informs the foundation of ‘Wear Your Mood’, where users are recommended outfits and color palettes based on emotional input.

## Color Psychology: Does It Affect How You Feel?

How color impacts moods, feelings, and behaviors

By Kendra Cherry, MSEd | Updated on February 20, 2024

✓ Reviewed by Steven Gans, MD



Advertisement

### CHILDHOOD TRAUMA WHAT MAKES YOU PROCRASTINATE

Ever wonder why you can't seem to start tasks, even when you know they're important? It might not be laziness – it could be rooted in childhood trauma. This hidden cause can create deep mental blocks that lead to

WIKIPEDIA  
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Search Wikipedia

Search

Photo contest Wiki Loves Earth:  
An international photography competition where you can showcase England's unique natural environment and potentially win a prize.

## Emotion classification

6 languages

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Emotions as discrete categories

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Cultural considerations

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Basic emotions

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Emotion dynamics

HUMAINE's proposal for EARL

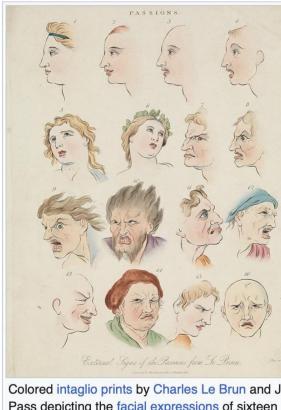
Parrot's emotions by

**Emotion classification**, the means by which one may distinguish or contrast one **emotion** from another, is a contested issue in emotion research and in **affective science**. Researchers have approached the classification of emotions from one of two fundamental viewpoints:[[citation needed](#)]

1. that emotions are discrete and fundamentally different constructs
2. that emotions can be characterized on a dimensional basis in groupings

**Emotions as discrete categories** [edit]

In **discrete emotion theory**, all humans are thought to have an innate set of basic emotions that are cross-culturally recognizable. These basic emotions are described as "discrete" because they are believed to be distinguishable by an individual's facial expression and biological processes.<sup>[1]</sup> Theorists have conducted studies to determine which emotions are basic. A popular example is [Paul Ekman](#) and his colleagues' cross-cultural study of 1992, in which they

  
Extracted 'Types of the Emotions' from L. Brun.  
Colored intaglio prints by Charles Le Brun and J. Pass depicting the facial expressions of sixteen emotions

Text

Small

Standard

Large

Width

Standard

Wide

Color (beta)

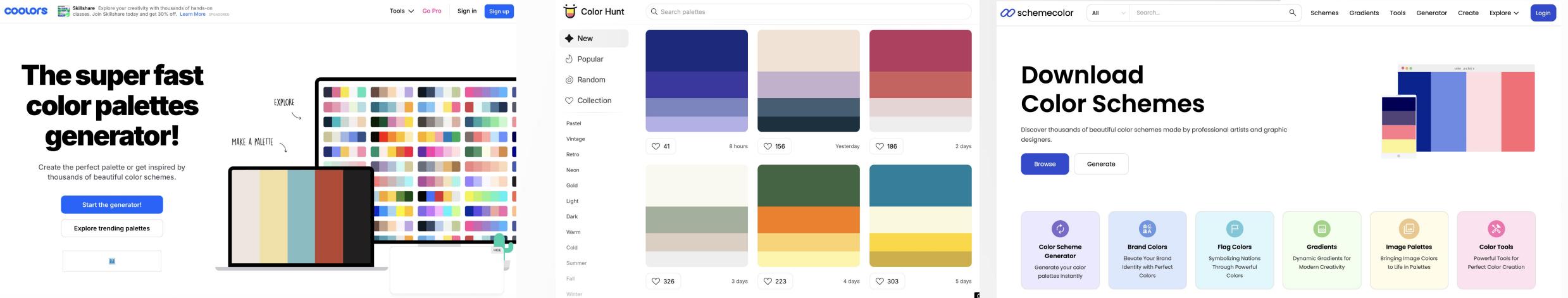
Automatic

Light

Dark

Psychological models like Plutchik's Wheel link emotions to colors—yellow for joy, red for anger, blue for sadness, and green for fear. Warm colors often represent high-energy emotions, while cool tones suggest calm or introspection. These associations help visualize emotional states and are widely used in mood-based design.

# Data Source



**The system primarily sources color palette data from the following professional color websites:**

- Coolors.co – Offers a wide range of designer-created color palettes and supports keyword-based search.
- ColorHunt.co – A popular color scheme platform featuring daily curated palettes.
- SchemeColor.com – A professional site with a broad variety of categorized color schemes.
- ColorHexa.com – Provides detailed color information along with related palette suggestions.
- Design-Seeds.com – Extracts color inspiration from nature and everyday life scenes.
- ColorCombos.com – Focuses on commonly used color combinations in commercial design.

In addition, the system uses Google search to retrieve more relevant resources, ensuring a diverse and comprehensive data source.

# Scraping Methods

## Direct Crawling from Target Websites:

- Construct specific URLs based on emotional keywords (e.g., [coolors.co/palettes/search/happy](https://coolors.co/palettes/search/happy))
- Use random User-Agent headers to simulate browser access
- Parse HTML pages to extract color palette data

## Google Search Enhancement:

- Build search queries including the target website domain (e.g., happy color palette site:[coolors.co](https://coolors.co))
- Parse search results to obtain relevant links
- Perform secondary crawling on the retrieved URLs

This hybrid strategy leverages structured data from professional color websites while using search engines to expand data coverage, enhancing both the scope and accuracy of the system.

## 1. Set User-Agent

Code lines: 13–18

Screenshot suggestion: Show the USER\_AGENTS list and get\_random\_user\_agent() function

Description:

Simulates requests from real browsers to avoid being blocked by target websites.

```
12 # User Agent List
13 USER_AGENTS = [
14     "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36",
15     "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36",
16     "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:89.0) Gecko/20100101 Firefox/89.0",
17     "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Version/14.1.1 Safari/605.1.15"
18 ]
```

## 2. Extract Colors from Text

Code lines: 20–31

Screenshot suggestion: Show the entire extract\_colors\_from\_text() function

Description:

Uses regular expressions to extract hex codes, rgba values, and common color names from text.

```
20 def get_random_user_agent():
21     return random.choice(USER_AGENTS)
22
23 def extract_colors_from_text(text):
24     """Extract color code from text"""
25     # Match hexadecimal color code
26     hex_colors = re.findall(r'#[0-9a-fA-F]{3}{1,2}\b', text)
27     # Match rgb/rgba color
28     rgb_colors = re.findall(r'rgba?\(\s*\d+\s*,\s*\d+\s*,\s*\d+\s*(?:,\s*[\d.]+\s*)?\)', text)
29     # Match color names
30     color_names = re.findall(r'\b(?:red|green|blue|yellow|orange|purple|pink|brown|black|white|gray|grey|cyan|magenta|violet|gold|silver|lavender|lime|teal|in
```

### 3. Extract Color Values from HTML Structure

Code lines: 33–74

Screenshot suggestion: Show the entire extract\_color\_palettes() function

Description:

Parses the HTML structure to locate elements that contain color data using multiple methods like style attributes, data-color, or inner text.

```
33
34 def extract_color_palettes(soup):
35     """Extract a color scheme from a page"""
36     palettes = []
37
38     # Find possible color scheme containers
39     palette_containers = soup.find_all(class_=re.compile(r'palette|color-group|swatches|colors|scheme|combination'))
40
41     for container in palette_containers:
42         # Extract color elements
43         color_elements = container.find_all(class_=re.compile(r'color|swatch|chip|sample'))
44
45         # If there is no specific class, try to find elements with background color
46         if not color_elements:
47             color_elements = container.find_all(style=re.compile(r'background-color|color'))
48
49         colors = []
50         for element in color_elements:
51             # Get color from style attribute
52             if 'style' in element.attrs:
53                 bg_match = re.search(r'background-color:\s*(.*?)[;]', element['style'])
54                 if bg_match:
55                     colors.append(bg_match.group(1).strip())
56                 else:
57                     color_match = re.search(r'color:\s*(.*?)[;]', element['style'])
58                     if color_match:
59                         colors.append(color_match.group(1).strip())
60
61             # Get color from data attribute
62             elif 'data-color' in element.attrs:
63                 colors.append(element['data-color'])
64
65             # Get color from text
66             else:
67                 text_colors = extract_colors_from_text(element.get_text())
68                 if text_colors:
69                     colors.extend(text_colors)
70
71         # If 3–8 colors are found, it is considered as an effective color scheme
72         if 3 <= len(colors) <= 8:
73             palettes.append(colors)
```

## 4. Search for Palette URLs Using Google

Code lines: 76–101

Screenshot suggestion: Show the entire search\_google\_for\_palettes() function

Description:

Builds Google search queries using emotional keywords to find relevant color palette pages from known websites.

```
76
77  def search_google_for_palettes(keyword):
78      """Using Google to search for color schemes"""
79      try:
80          query = f"{keyword} color palette site:coolors.co OR site:colorhunt.co OR site:colordesigner.io OR site:schecolor.com"
81          url = f"https://www.google.com/search?q={quote(query)}"
82
83          headers = {
84              'User-Agent': get_random_user_agent(),
85              'Accept-Language': 'en-US,en;q=0.9'
86          }
87
88          response = requests.get(url, headers=headers, timeout=15)
89          response.raise_for_status()
90
91          soup = BeautifulSoup(response.text, 'html.parser')
92          links = []
93
94          # Extract the first 5 related links
95          for result in soup.select('.tF2Cxc')[5:]:
96              link = result.a['href']
97              if link.startswith('http'):
98                  links.append(link)
99
100         return links
101     except Exception as e:
```

## 5A. Build Target Website List

Code lines: 106–133

Screenshot suggestion: Show the sites list and the loop appending google\_links in crawl\_palette\_sites()

Description:

Defines target URLs for direct crawling and dynamically adds Google search results for wider coverage.

```
105 def crawl_palette_sites(keyword):
106     """Crawling color scheme website"""
107     sites = [
108         {
109             'url': f'https://coolors.co/palettes/search/{keyword}',
110             'type': 'coolors'
111         },
112         {
113             'url': f'https://colorhunt.co/palettes/{keyword}',
114             'type': 'colorhunt'
115         },
116         {
117             'url': f'https://www.colorhexa.com/color-{keyword}',
118             'type': 'colorhexa'
119         },
120         {
121             'url': f'https://www.color-name.com/{keyword}-color',
122             'type': 'colorname'
123         },
124         {
125             'url': f'https://www.design-seeds.com/search/{keyword}/',
126             'type': 'designseeds'
127         },
128         {
129             'url': f'https://www.schemecolor.com/s/{keyword}',
130             'type': 'schemecolor'
131         },
132         {
133             'url': f'https://www.colorcombos.com/color-schemes.html?search={keyword}',
134             'type': 'colorcombos'
```

## 5B. Fetch and Parse Web Pages

Code lines: 148–161

Screenshot suggestion: Show the for site in sites: block with requests.get() and BeautifulSoup

Description:

Sends HTTP requests to each site and parses the HTML using BeautifulSoup to extract palette containers.

```
148     for site in sites:
149         try:
150             headers = {
151                 'User-Agent': get_random_user_agent(),
152                 'Accept-Language': 'en-US,en;q=0.9',
153                 'Referer': 'https://www.google.com/'
154             }
155
156             print(f"Fetching: {site['url']}")
157             response = requests.get(site['url'], headers=headers, timeout=15)
158             response.raise_for_status()
159
160             soup = BeautifulSoup(response.text, 'html.parser')
161
```

## 6. Extract Palettes by Site Type

Code lines: 166–212

Screenshot suggestion: Show the different if site['type'] blocks (e.g., for colors, colorhunt, colorhexa, etc.)

Description:

Applies different parsing rules depending on the site structure to extract hex color codes accurately.

```
162     # Different extraction strategies are adopted according to different website types
163     if site['type'] == 'colors':
164         palette_divs = soup.select('.palette_container')
165         for div in palette_divs:
166             colors = []
167             color_divs = div.select('.palette_color')
168             for color_div in color_divs:
169                 hex_code = color_div.get('data-hex')
170                 if hex_code:
171                     colors.append(f'#{hex_code}')
172             if colors:
173                 all_palettes.append(colors)
174
175     elif site['type'] == 'colorhunt':
176         palette_divs = soup.select('.palette')
177         for div in palette_divs:
178             colors = []
179             color_divs = div.select('.color')
180             for color_div in color_divs:
181                 if 'style' in color_div.attrs:
182                     bg_color = re.search(r'background-color:\s*(.*?)[;]', color_div['style'])
183                     if bg_color:
184                         colors.append(bg_color.group(1).strip())
185             if colors:
186                 all_palettes.append(colors)
187
188     elif site['type'] == 'colorhexa':
189         color_table = soup.select('.color-table tbody tr')
190         if color_table:
191             palette = []
192             for row in color_table[:8]: # Take up to 8 colors
193                 hex_code = row.select_one('td:nth-child(2)').get_text(strip=True)
194                 if hex_code:
195                     palette.append(f'#{hex_code}')
196             if palette:
197                 all_palettes.append(palette)
198
199     elif site['type'] == 'schemecolor':
200         palette_divs = soup.select('.palette-container')
201         for div in palette_divs:
202             colors = []
203             color_divs = div.select('.palette-color')
204             for color_div in color_divs:
205                 hex_code = color_div.find(class_='hexcode').get_text(strip=True)
206                 if hex_code:
207                     colors.append(f'#{hex_code}')
208             if colors:
209                 all_palettes.append(colors)
210
211     # General extraction method
212     extracted = extract_color_palettes(soup)
213     all_palettes.extend(extracted)
214
215     time.sleep(random.uniform(1, 3)) # random latency
216
217     except Exception as e:
218         print(f"Error crawling {site['url']}: {str(e)}")
219         continue
```

# Data Processing

## Color Data Extraction Process

The system adopts a multi-layered approach to color extraction:

### Page Structure Analysis:

- Identify common color palette containers (e.g., elements with classes like "palette" or "color-group")
- Extract HTML elements that contain background color or inline color styles

### Color Value Extraction:

- Extract background-color or color values from the style attribute
- Retrieve color codes (e.g., data-hex) from data attributes
- Parse color names or hexadecimal codes from the element's text content

```
# Match hexadecimal color code
hex_colors = re.findall(r'#[0-9a-fA-F]{3}{1,2}\b', text)
# Match rgb/rgba color
rgb_colors = re.findall(r'rgba?\(\s*\d+\s*,\s*\d+\s*,\s*\d+\s*(?:,\s*[\d.]+\s*)?\)', text)
# Match color names
color_names = re.findall(r'\b(?:red|green|blue|yellow|orange|purple|pink|brown|black|white|gray|grey|cyan|magenta|violet|gold|silver|lavender|lime|teal|in\b', text)
```

## Data Deduplication and Validation

To ensure data quality, the system applies the following processing steps to the collected color palettes:

### Deduplication:

- Convert each color list into a tuple
- Use a set to remove duplicate entries

```
unique_palettes = []
seen = set()
for palette in palettes:
    palette_tuple = tuple(palette)
    if palette_tuple not in seen:
        seen.add(palette_tuple)
        unique_palettes.append(palette)
```

# System Architecture

## Backend Implementation

The system's backend is built using the Python Flask framework, with the following core modules:

### 1. Route Controller:

- / — Returns the front-end HTML page
- /get\_palettes — Handles requests for color palette generation

### 2. Crawler Scheduler:

- Manages crawling tasks across multiple websites
- Controls request frequency and timeout settings
- Handles exceptions during the crawling process

### 3. Data Processor:

- Cleans raw data
- Validates color formats
- Removes duplicate palettes

### 4. API interface:

Receive front-end requests

Return JSON format data

```
@app.route('/get_palettes', methods=['POST'])
def get_palettes():
    keyword = request.form.get('keyword', '').strip().lower()
    if not keyword:
        return jsonify({'error': 'Please enter a keyword'})
    try:
        palettes = crawl_palette_sites(keyword)
        if not palettes:
            return jsonify({'error': f'No color palettes found for "{keyword}"'})
        return jsonify({
            'keyword': keyword,
            'palettes': unique_palettes[:5]
        })
    except Exception as e:
        return jsonify({'error': str(e)})
```

# API Integration

## Integration with DeepSeek API

Considering the need for logical, expressive, and stylistically coherent fashion suggestions, I initially explored both ChatGPT and DeepSeek. After comparing factors such as performance and pricing, I ultimately chose the DeepSeek API to generate personalized fashion recommendations for users.

With the API integrated, the system can still provide outfit suggestions even when the input color values cannot be retrieved through web scraping.

### 1. Request construction

```
const response = await fetch(DEEPEEK_API_URL, {
  method: 'POST',
  headers: {
    'Content-Type': 'application/json',
    'Authorization': `Bearer ${DEEPEEK_API_KEY}`
  },
  body: JSON.stringify({
    model: 'deepseek-chat',
    messages: [{role: 'user', content: prompt}],
    temperature: 0.7,
    max_tokens: 1000
  })
});
```

### 2. Cue word design

```
let prompt;
if (colors.length > 0) {
  prompt = `Provide a detailed fashion advice based on the emotion "${emotion}" and these color palette: ${colorList}. Suggest what color to use for tops, what colors would work well for bottoms, and what accessories would complement this look. Also suggest suitable styles and materials...`;
} else {
  prompt = `Provide a detailed fashion advice based on the emotion "${emotion}". Suggest color combinations, styles, and materials that would best represent...`;
}
-----
```

# Output Design

Front-end technical implementation

## 1. Responsive design:

Using CSS Flexbox and Grid layouts  
Adapting to different screen sizes

```
@media (max-width: 768px) {  
    .palettes {  
        grid-template-columns: 1fr;  
    }  
}
```

## 2. Interactive function, color click to copy

```
colorElement.addEventListener('click', () => {  
    navigator.clipboard.writeText(color).then(() => {  
        colorElement.textContent = 'Copied!';  
        setTimeout(() => {  
            colorElement.textContent = color;  
        }, 1000);  
    });  
});
```

## Technology Stack and Dependencies

The system is developed using Python 3.x as the programming language. The main dependencies are as follows:

- **beautifulsoup4==4.12.3**
- **requests==2.31.0**
- **flask==3.0.2**

All dependencies are managed through a requirements.txt file.

## Key Technical Implementations

### Web Parsing Technology

The system uses the BeautifulSoup4 library to perform multi-mode HTML parsing.

```
def extract_colors_palettes(soup):
    palettes = []
    for container in soup.select('.palette_container'):
        colors = [f"#{color['data-hex']}" for color in container.select('.palette_color')]
        if len(colors) >= 3: # A valid palette should contain at least 3 colors
            palettes.append(colors)
    return palettes
```

## Web Request Optimization

Anti-crawl strategy via Requests library:

```
# List of possible User-Agent headers
USER_AGENTS = [
    "Mozilla/5.0 (Windows NT 10.0; Win64; x64)...",
    "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7)..."
]

def get_with_retry(url, max_retries=3):
    for attempt in range(max_retries):
        try:
            response = requests.get(
                url,
                headers={'User-Agent': random.choice(USER_AGENTS)},
                timeout=10
            )
            response.raise_for_status()
            return response
        except Exception as e:
            if attempt == max_retries - 1:
                raise
            time.sleep(2 ** attempt)
```

# Final Display

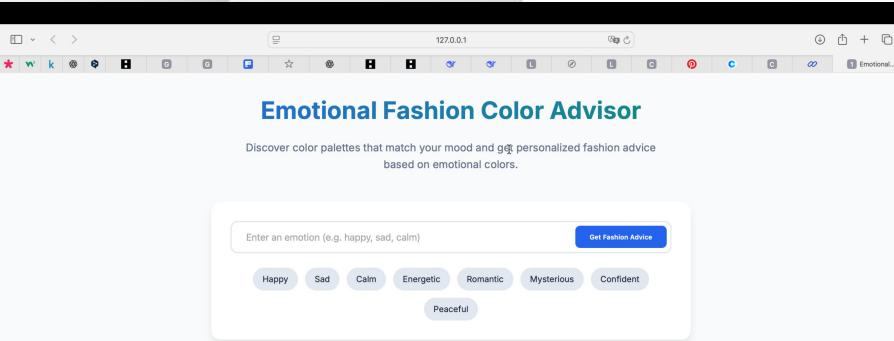


Figure 1. Emotion input interface with keyword buttons and text field.

**The final interface of the system is clean and intuitive, guiding users from emotional input to outfit suggestions with ease.**

On the homepage, users can either type in an emotion (e.g., happy, sad, calm) or select from preset keywords. Once submitted, the system retrieves matching color palettes from various online sources and displays them as color swatches.

Each palette includes its corresponding hex codes for clear visual reference. Below the palettes, personalized fashion advice is generated via the DeepSeek API, offering styling suggestions for tops, bottoms, and accessories based on the selected emotion and color mood.

Since the system fetches data in real-time through web scraping, the results may take a few seconds to load. This ensures the color palettes and recommendations are accurate and up-to-date.

This final display not only provides practical fashion guidance, but also effectively translates abstract emotions into visual and color-driven outfit solutions.

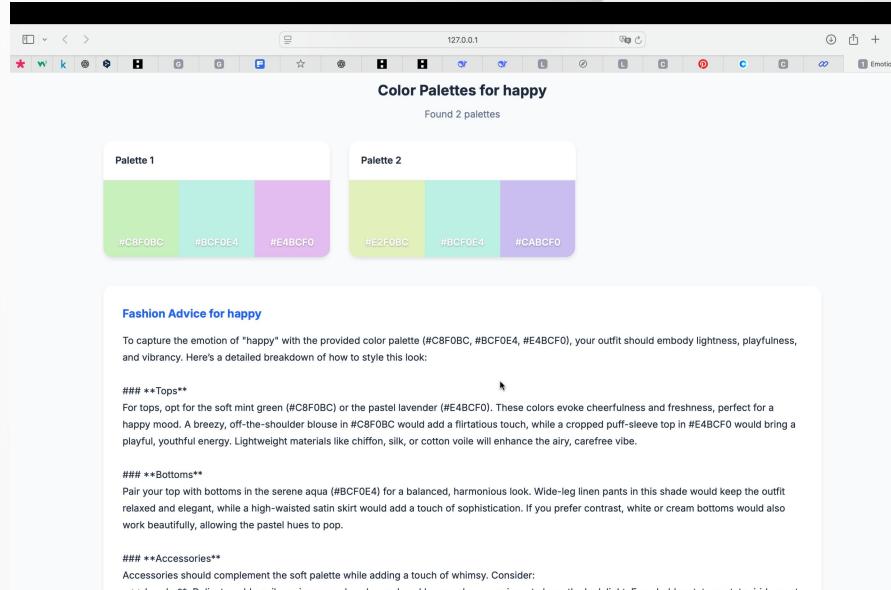


Figure 2. Display of matching color palettes and generated fashion advice.

# Reflection

This project involved several technical and strategic challenges that led to valuable learning outcomes.

At first, I planned to crawl product images from fashion websites like ASOS and Pinterest based on emotional keywords. However, most sites had anti-scraping measures, preventing access to valid image data. To overcome this, I shifted to collecting color palettes from professional color websites and enhanced the process with Google search queries. This hybrid approach improved both coverage and accuracy.

The system was built using Flask for backend logic and DeepSeek API for generating outfit suggestions. The API ensured that even without color data, the system could still provide results.

Overall, this project improved my skills in data collection, system design, and API integration. It also laid a solid foundation for future development, such as adding image generation or emotion recognition features.

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