

Compare the Color palette of Instagram Image depending on Emotion

2022.02.11 Lab Seminar

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Theme

Emotional Expression

Satisfaction

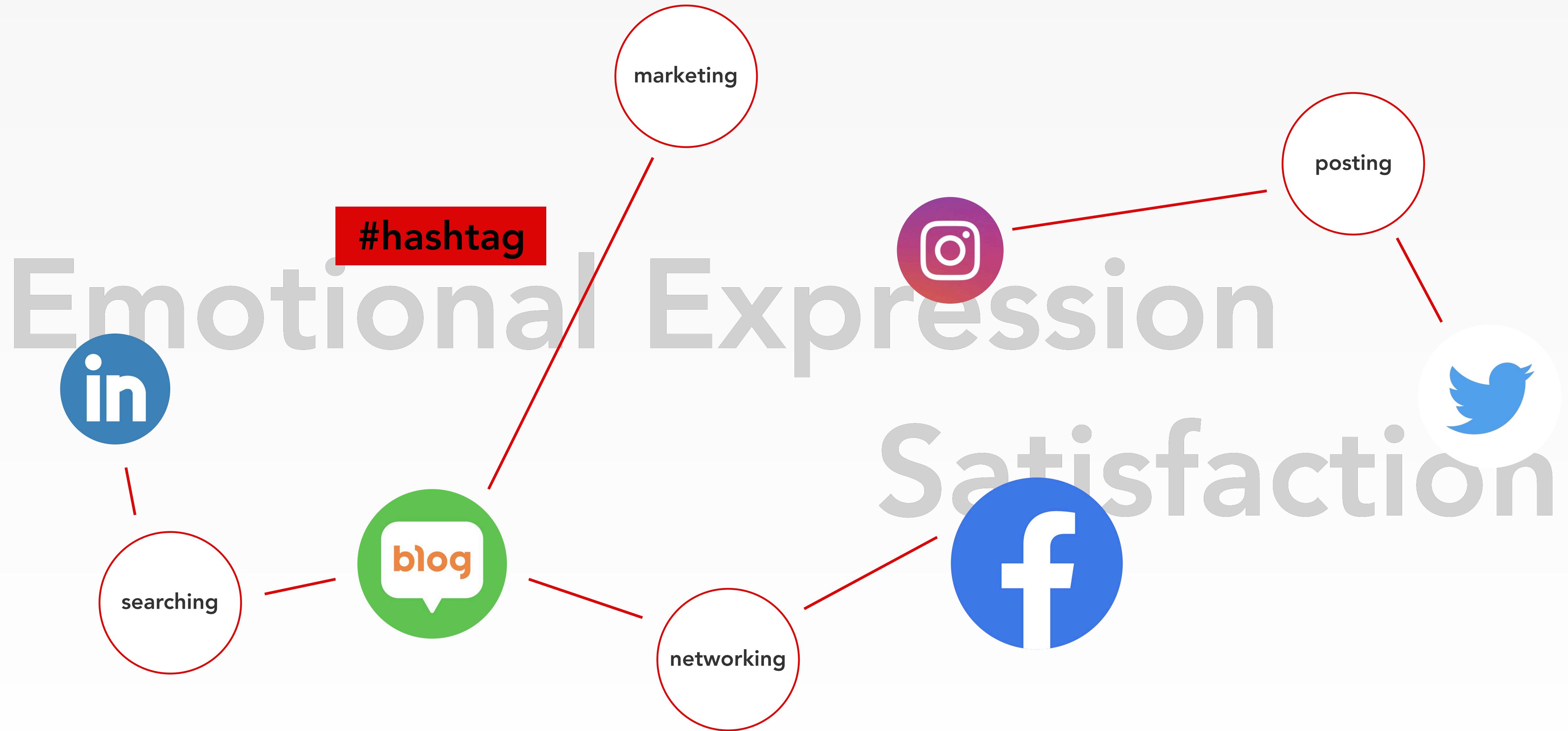
Theme

#hashtag

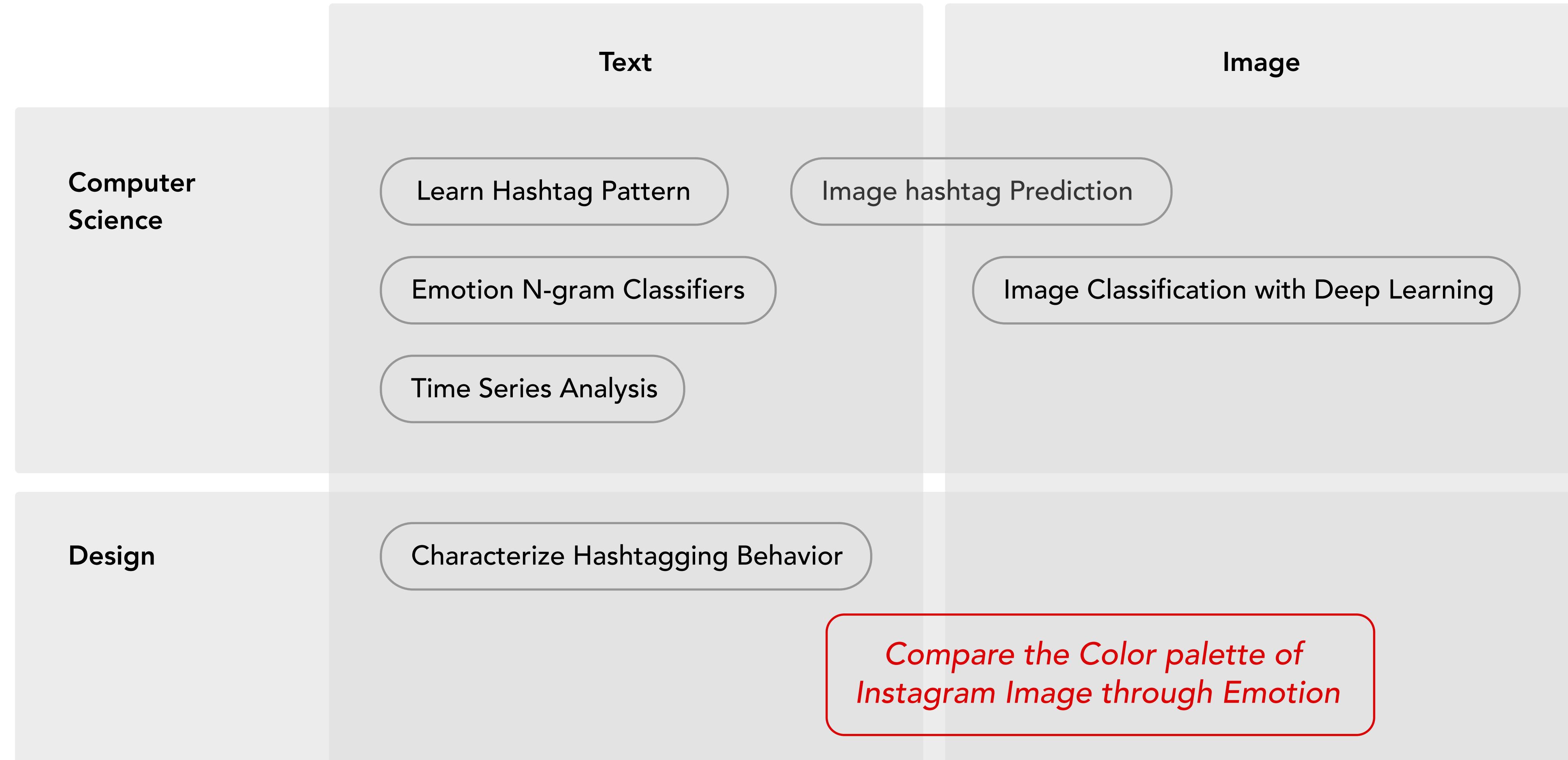
Emotional Expression

Satisfaction

Theme



Study Theme



Approach

1

Emotion Category에 대응되는 hashtag 탐색

Literature
Review

2

hashtag에 대응하는 게시물 크롤링

Crawling

3

해당 게시물의 image 다운로드

Image
Download

4

Image의 Color 추출

Adobe

5가지의 감정 category에 대한 선행 해쉬태그 추출 및 분석

learning emotion indicators from tweets : hashtags, hashtag patterns, and Phrases.

citation : 53

- 트위터 기반의 hashtag들을 통해 진행한 연구.
- hashtag를 hashtag, hashtag pattern, hashtag phrase 세가지 카테고리로 분류하여 5가지 감정에 대한 선행 tag를 알아보고자함.
- Paul Ekman의 7가지 기본감정을 preliminary work로 하여 5가지 감정(affection, anger&rage, fear&anxiety, joy, sadness&disappointment)에 대한 emotion indication 탐색.
- n-gram의 과정에서 #angry에 대해서는 화남. #angrybird는 게임 캐릭터라는 특징을 이해할 수 있도록 구체적인 learned hashtag process를 구축하려고 노력함.
- #loveyou라는 동일한 선행 hashtag에 대해서도 #loveyoumom은 affection, #loveyoulife는 joy에 분류될 수 있도록n-gram후 엄밀한 classifier labeled tweets 과정을 추가함.
- CMU's tokenizer, Twitter's streaming API, bootstrapped learning emotino hashtag등의 기존 연구를 레퍼로 하여 classification에 대한 분류/learned 과정 포함함.

Emotion	Hashtag Pattern	Examples of Matching Hashtags
AFFECTION	#bestie* #missedyou*	#bestiefolyfe, #bestienight, #bestielove #missedyoutoomuch, #missedyouguys, #missedyoubabies
ANGER & RAGE	#godie* #pisseedoff*	#godieoldman, #godieyou, #godieinahole #pisseedofffather, #pisseedoffnow, #pisseedoffmood
FEAR & ANXIETY	#tooscared* #nightmares*	#tooscaredtogoalone, #tooscaredformama, #tooscaredtomove #nightmaresfordays, #nightmaresforlife, #nightmarestonight
JOY	#feelinggood* #goodmood*	#feelinggoodnow, #feelinggoodforme, #feelinggoodabout #goodmooditsgameday, #goodmoodmode, #goodmoodnight
SADNESS & DISAPPOINTMENT	#bummed* #singlelife*	#bummedout, #bummedaf, #bummednow #singlelifeblows, #singlelifeforme, #singlelifesucks

Algorithm & Code



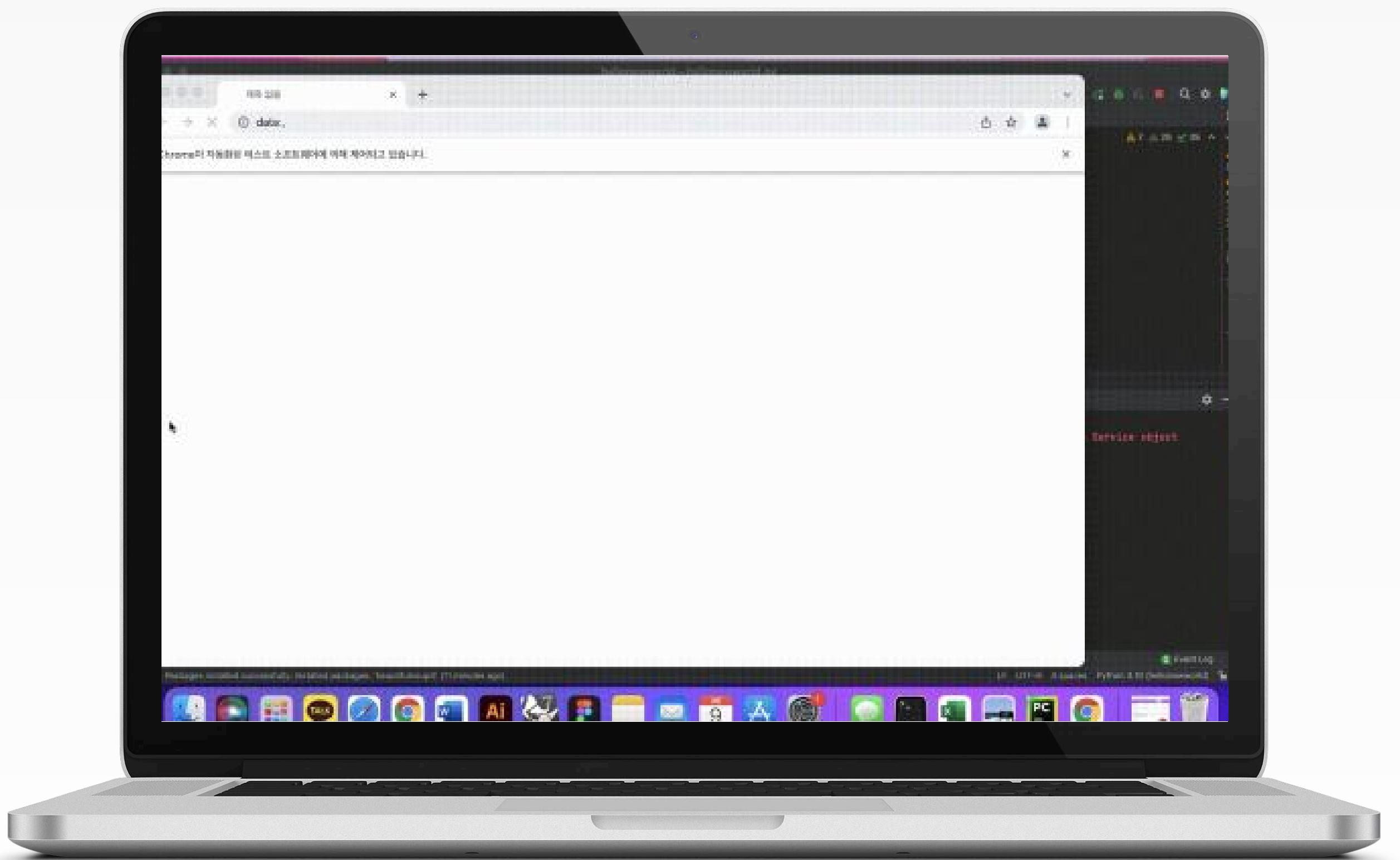
Algorithm & Code



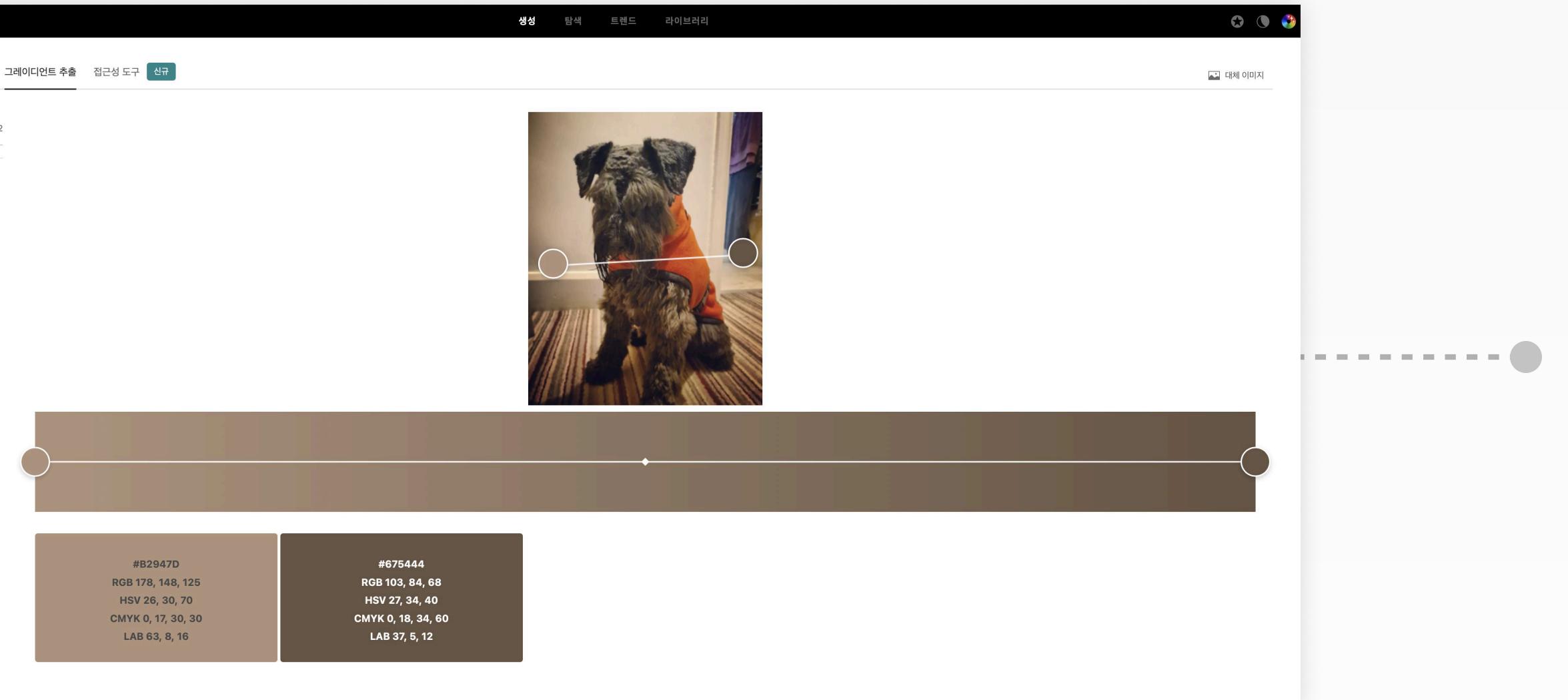
Algorithm & Code



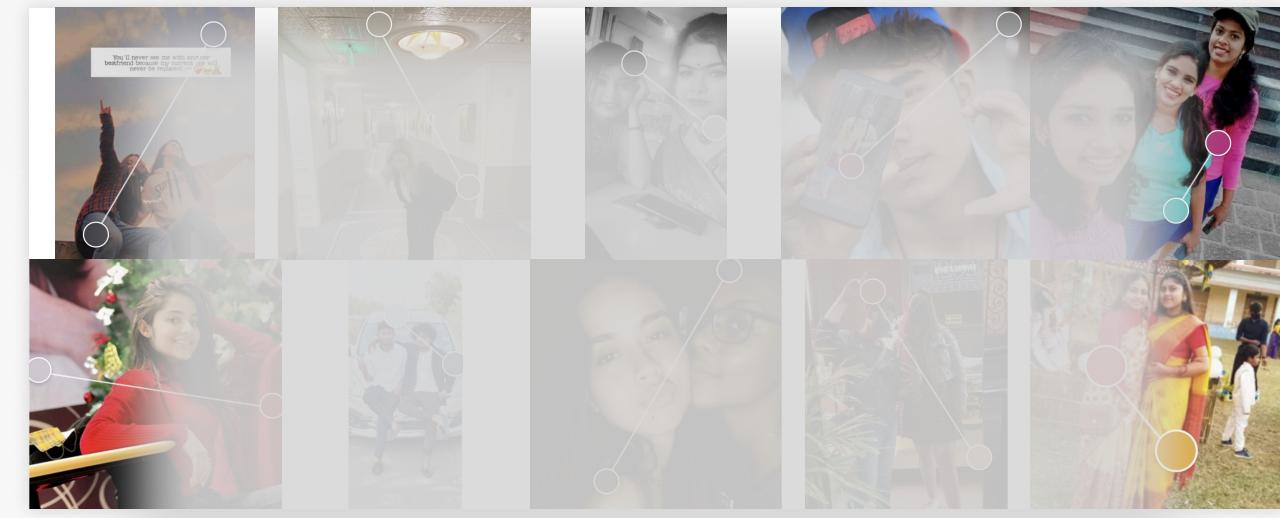
Result



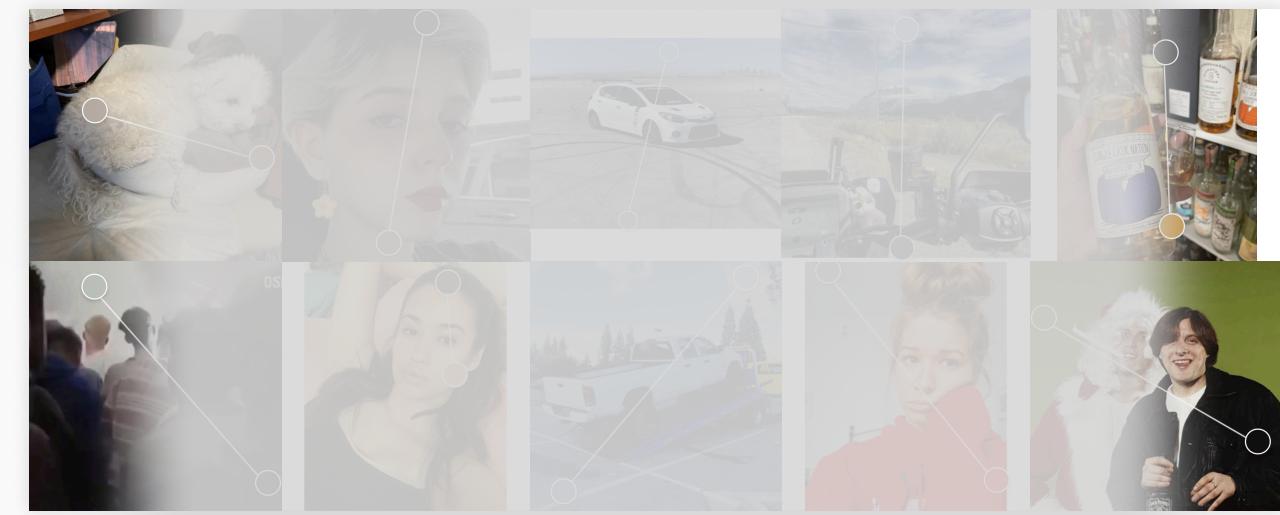
Result



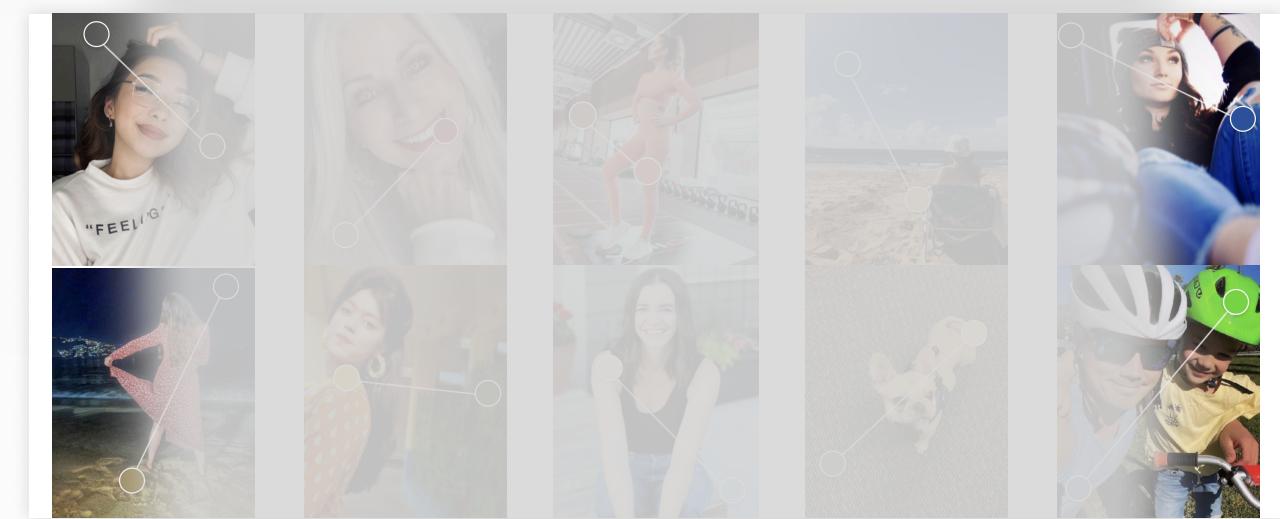
#bestie



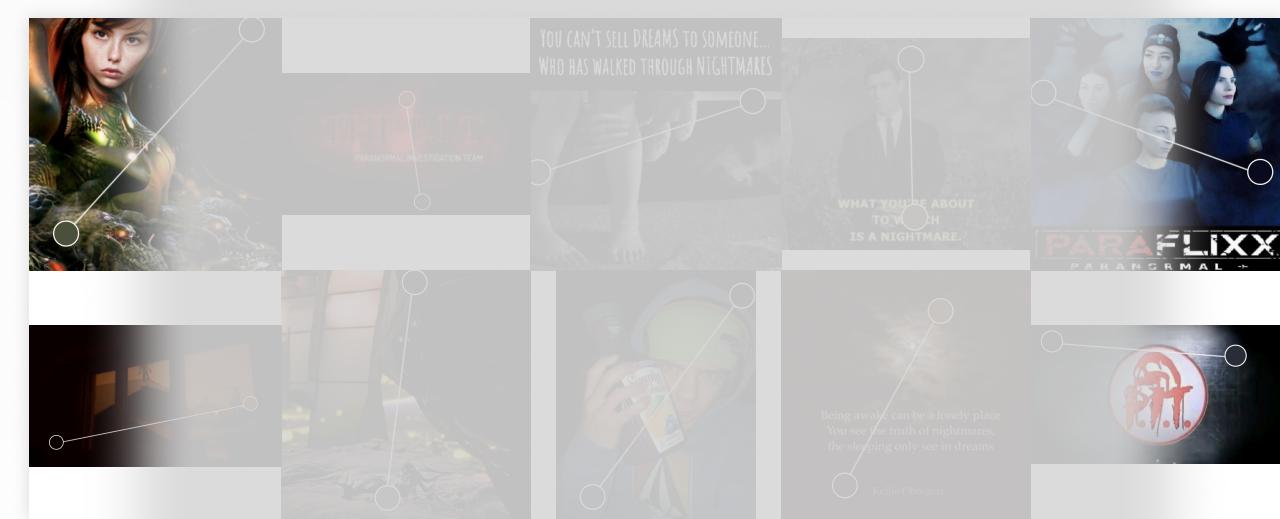
#bummed



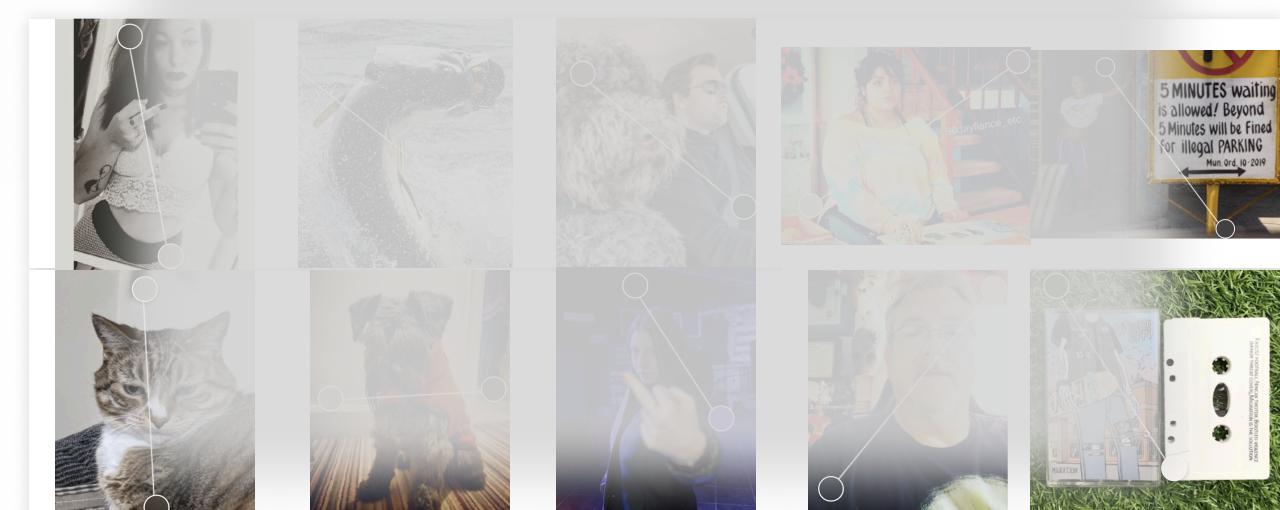
#feelinggood



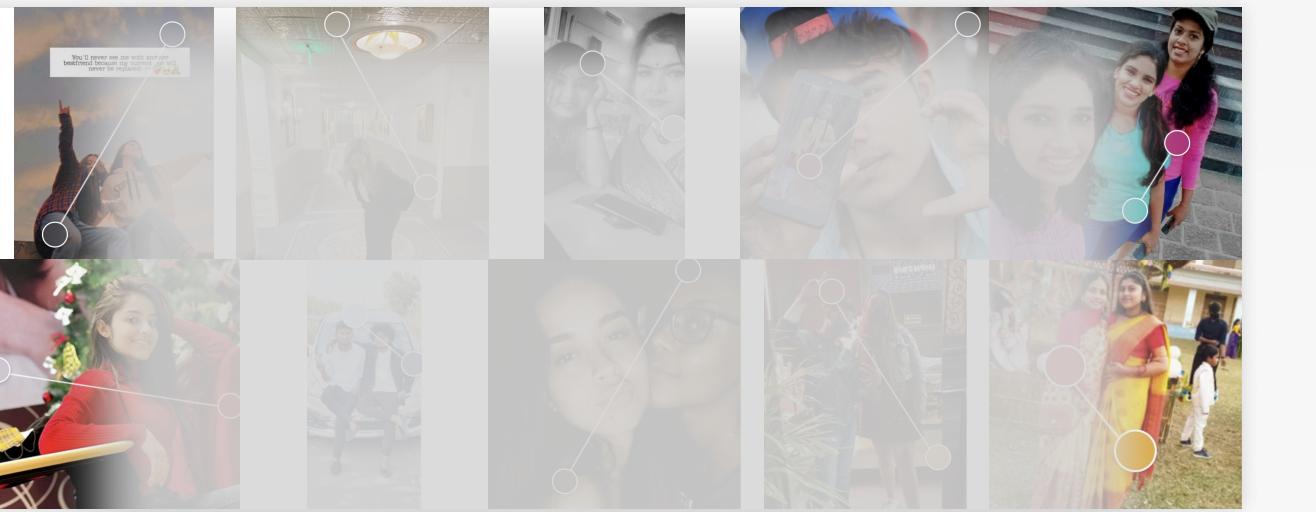
#nightmares



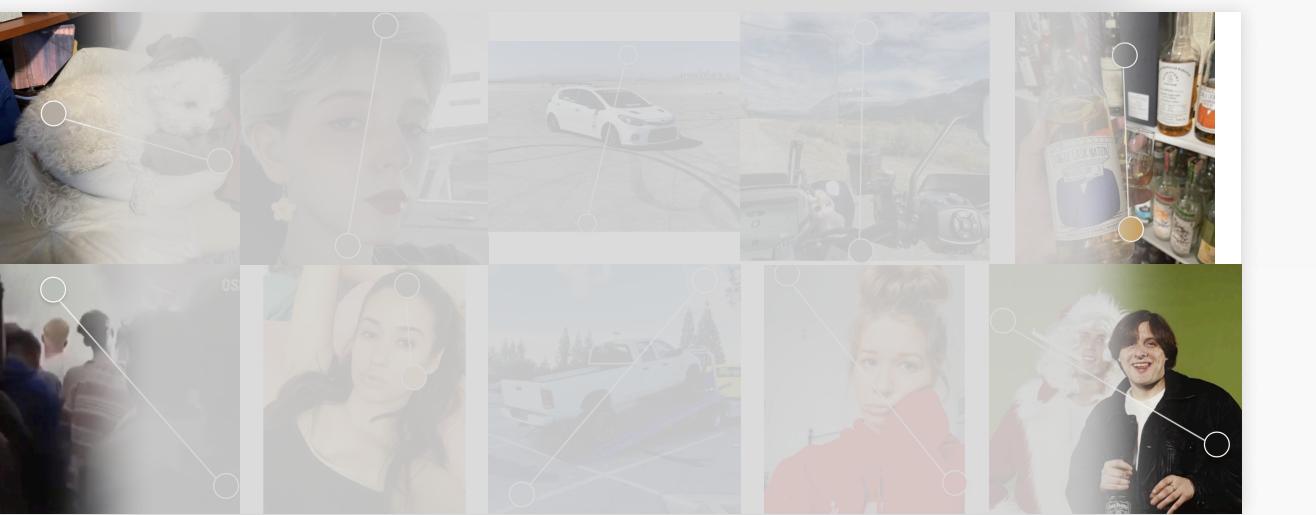
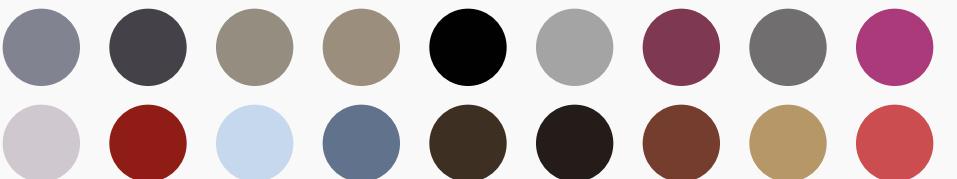
#pissedoff



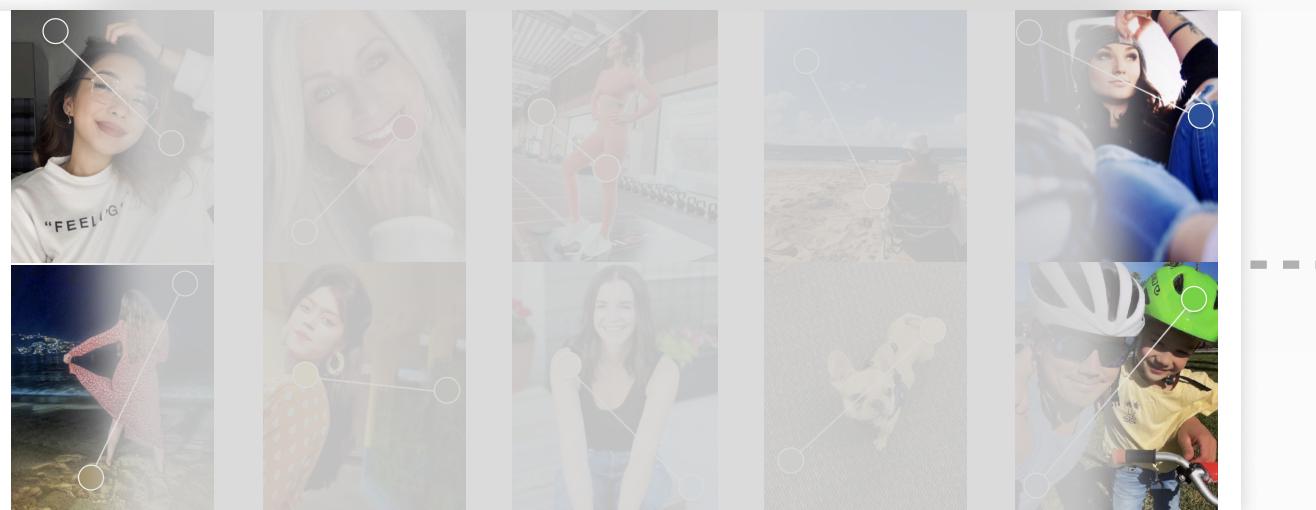
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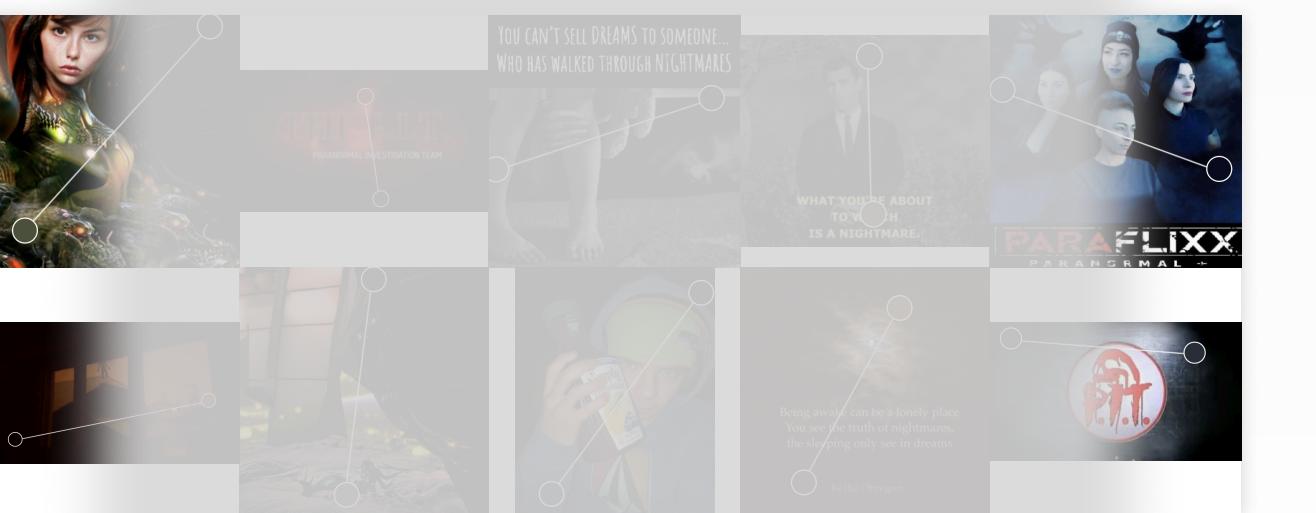
Affection



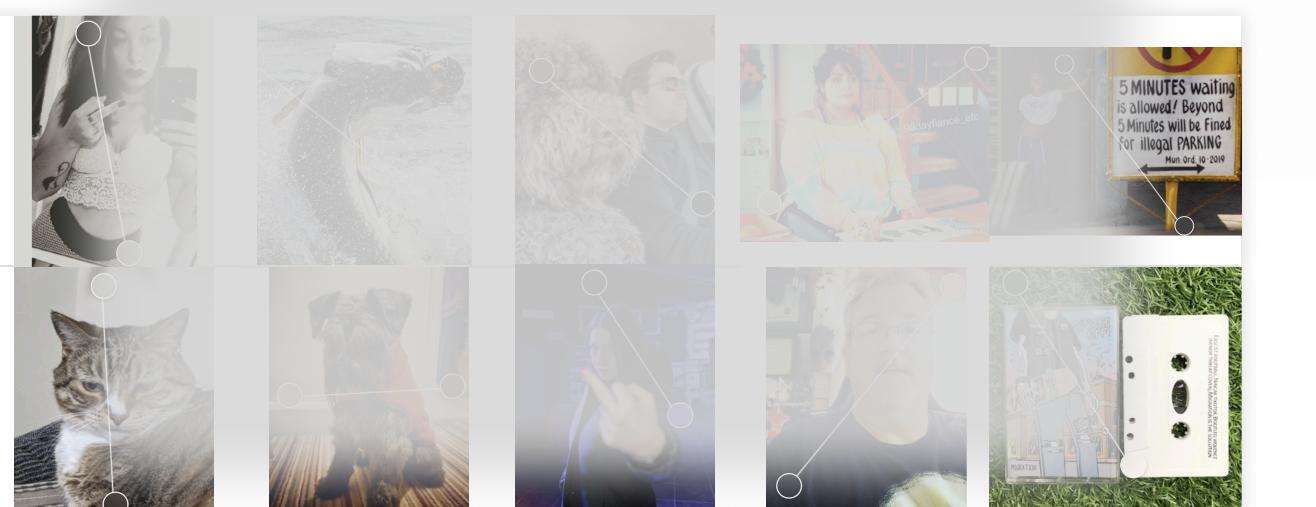
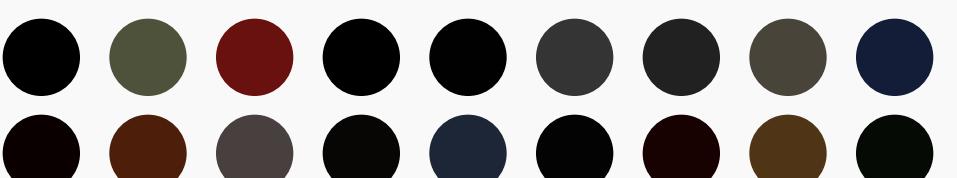
Sadness & Disappointment



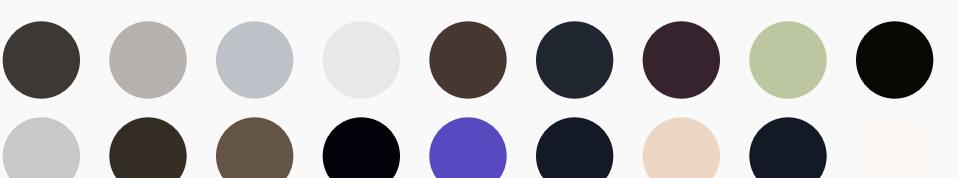
Joy



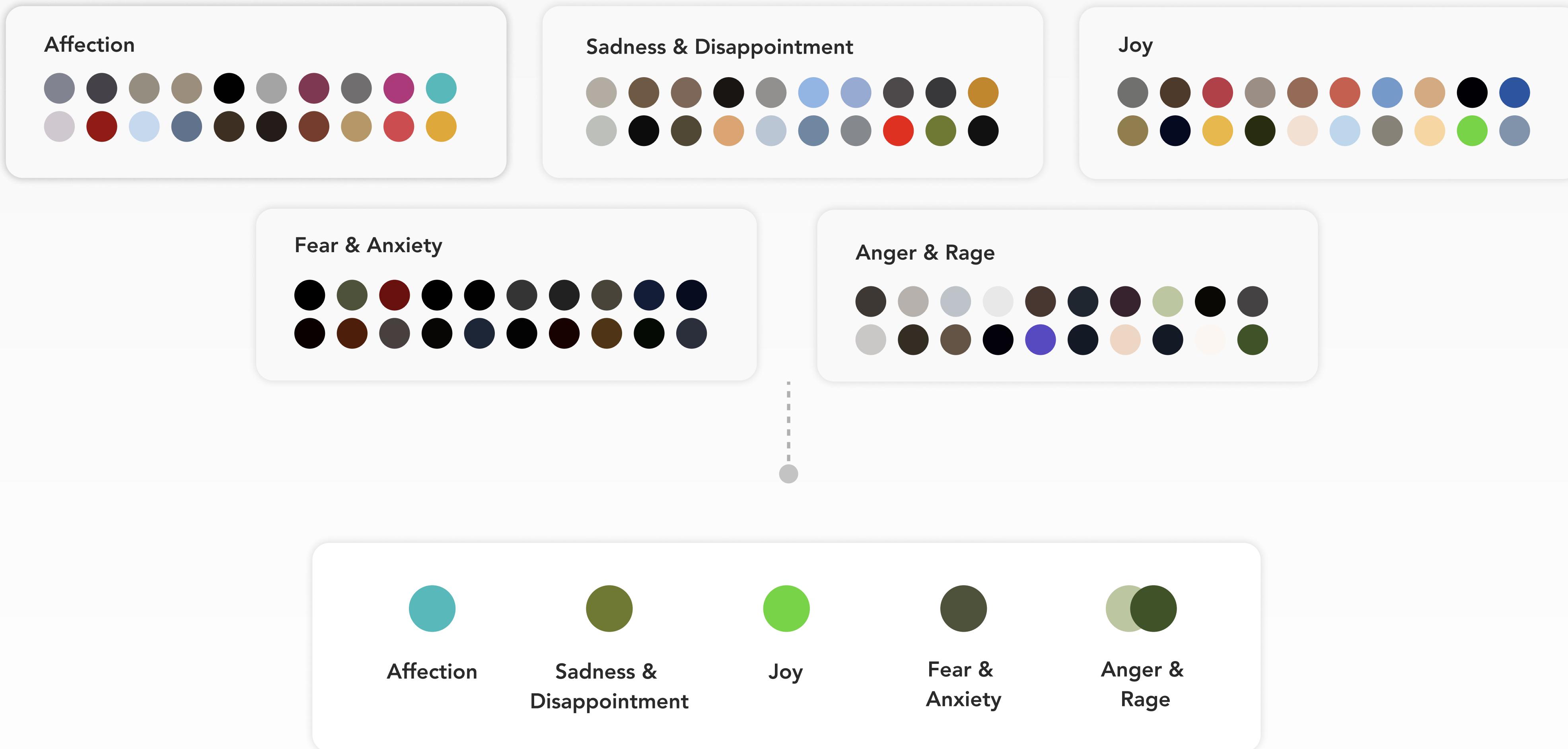
Fear & Anxiety



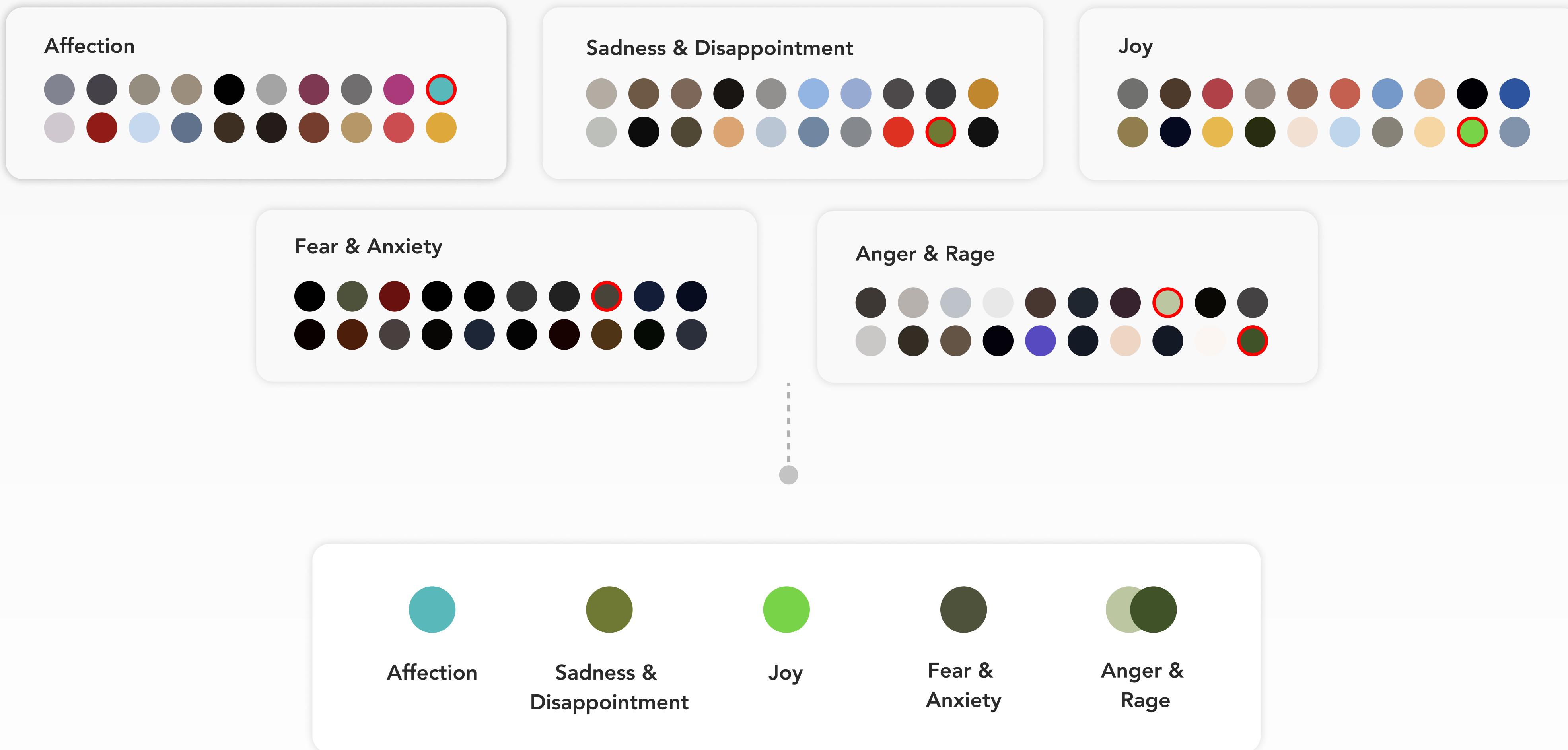
Anger & Rage



Result



Result



technical limitation

최근 페이스북 해킹으로 SNS들의 크롤링 제한 문제

인스타그램은 하루에 100-300개 정도의 사진들을 클릭한 계정을 다운시킨다고 합니다.
그래서 20개씩 딱 100개만 했음.

해쉬태그 문제

현재의 크롤링 데이터는 선행 해쉬태그에 대해 진행되었음. 선행 해쉬태그를 포함하고 있는 모든 해쉬 태그에 대한 데이터 필요.

theoretical limitation

컬러 추출

adobe를 이용할 수도 있지만 컬러추출에 대한 rationale 필요할 것 같음