

See 옷

시옷, 옷을 보다.

01

One,



02

Two,



03

Three,



04

Four

About "시옷"

Main Function

Differentiations

Results

About "시옷"



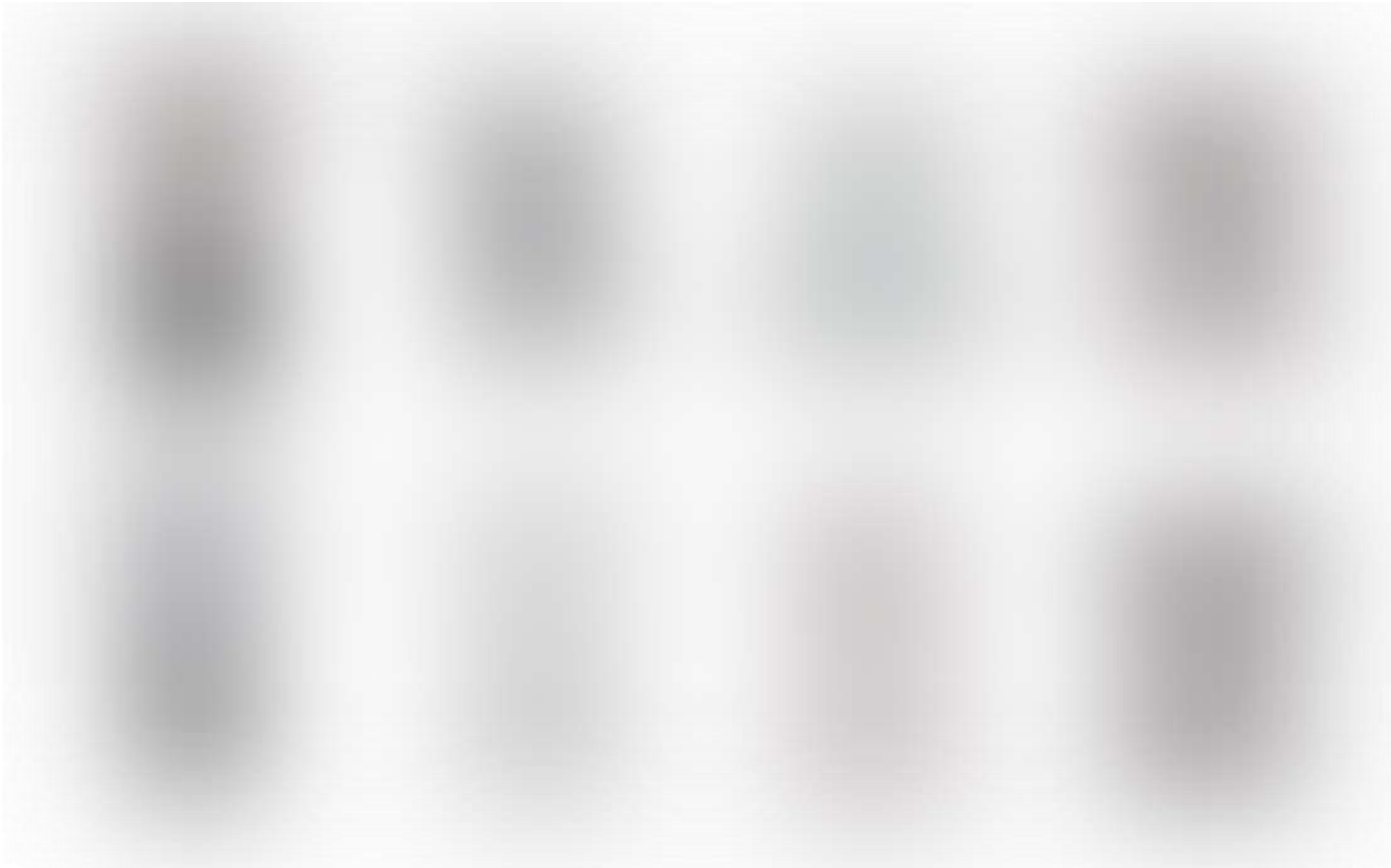
시옷은,
옷을 대신 보고 알려줍니다.

당연함

필요성



필요성



필요성

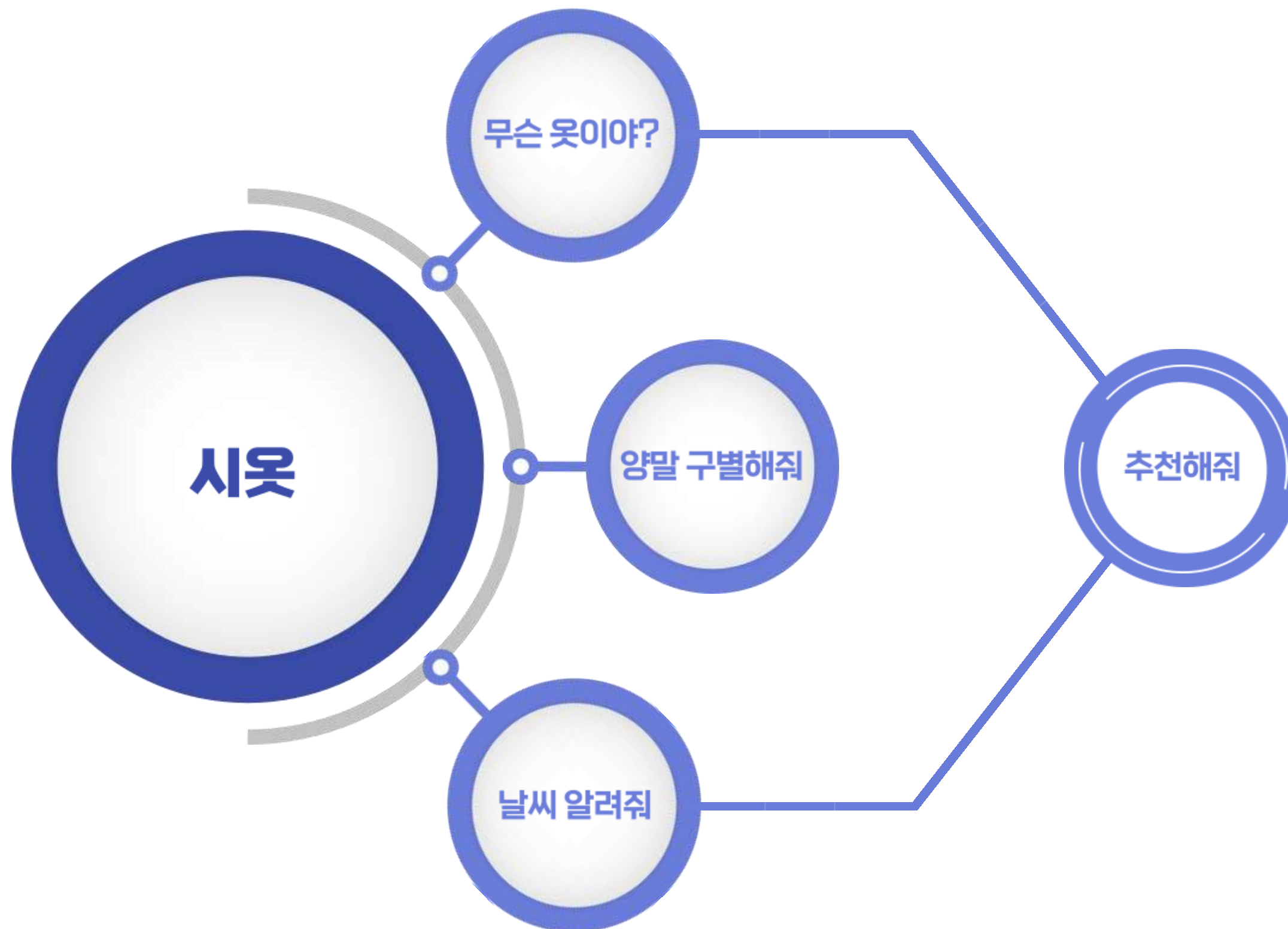


필요성

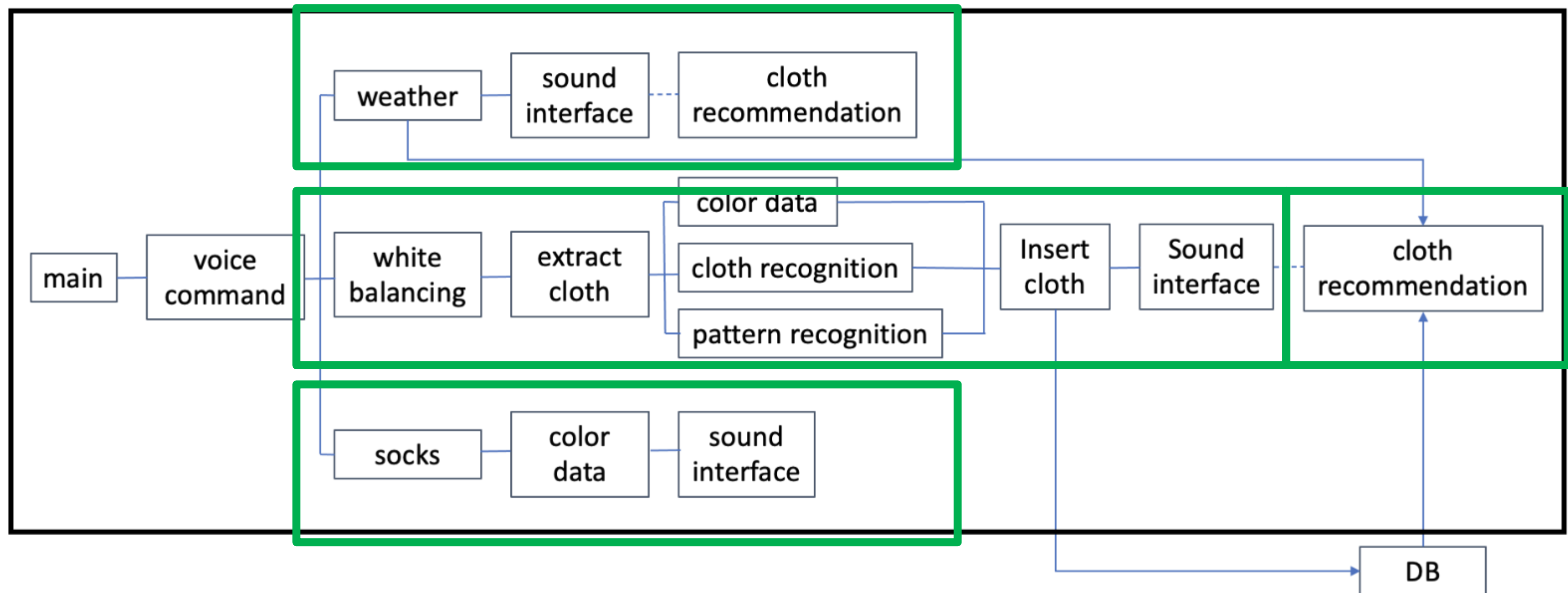


옷의 정보를 음성으로 알려주자!

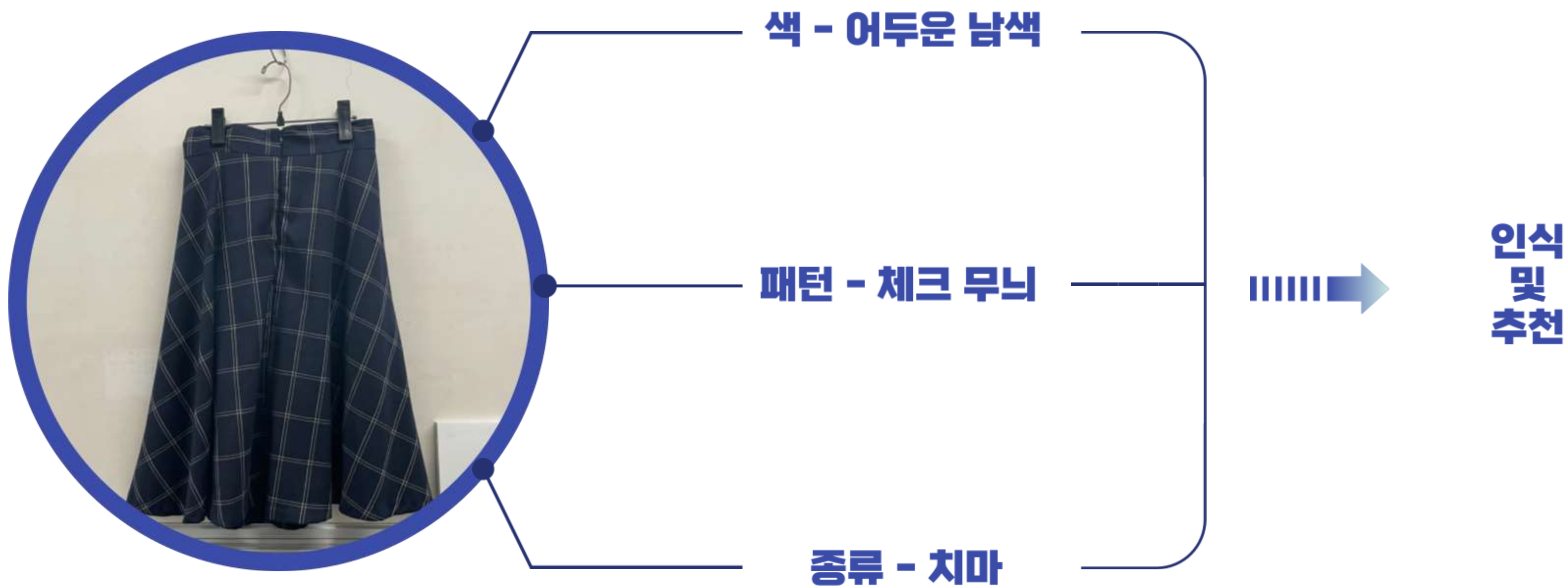
Command



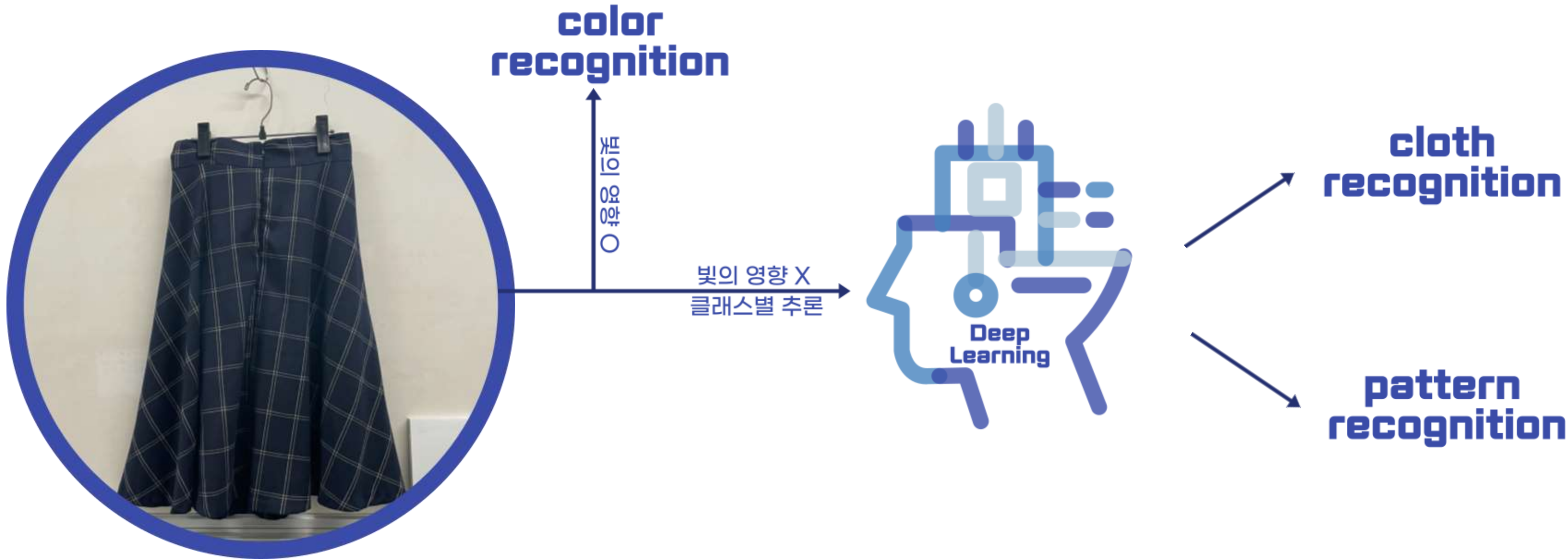
Software Architecture



"무슨 옷이야?"



"무슨 옷이야?"



"무슨 옷이야?"

KOBOTEN

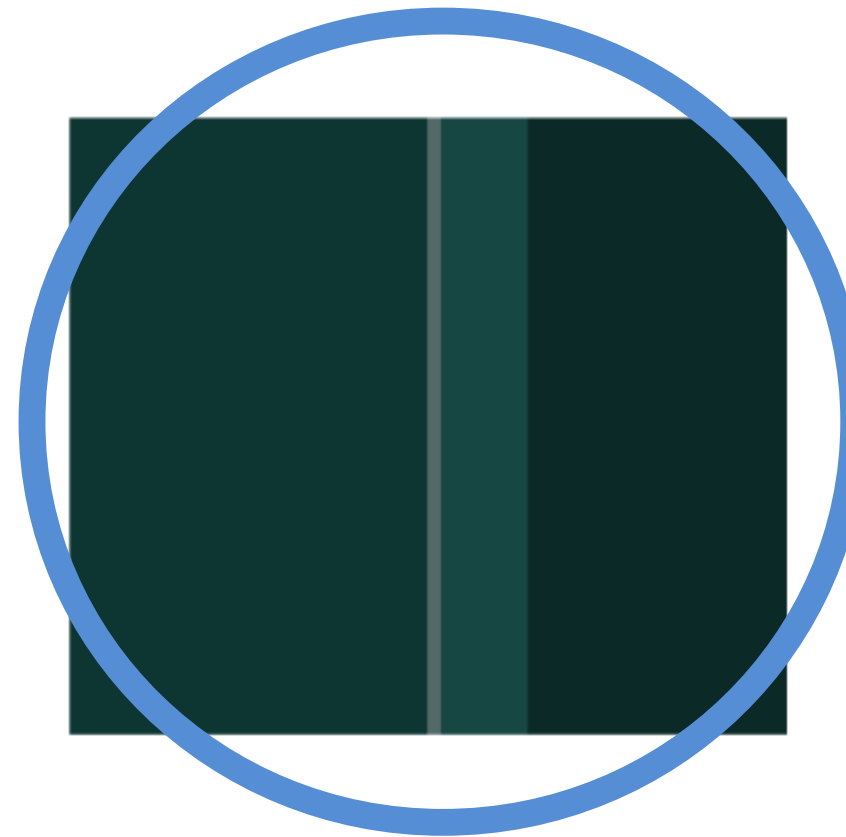
Color Extraction



origin



white balancing
remove background

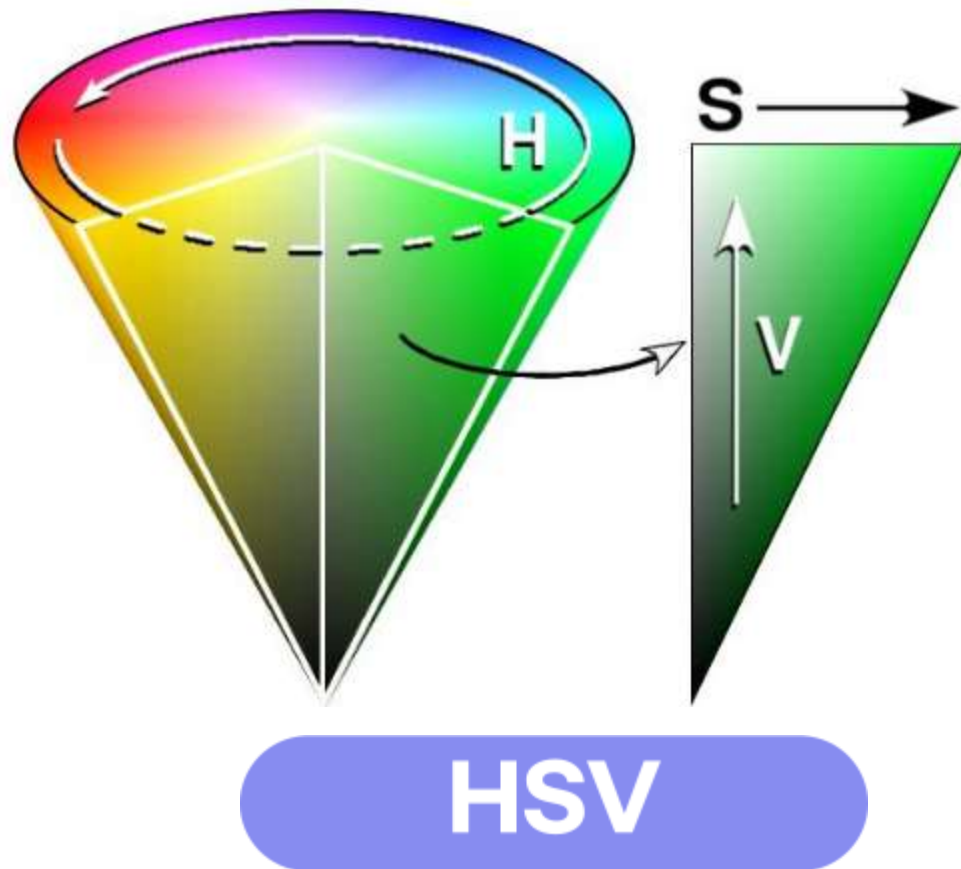
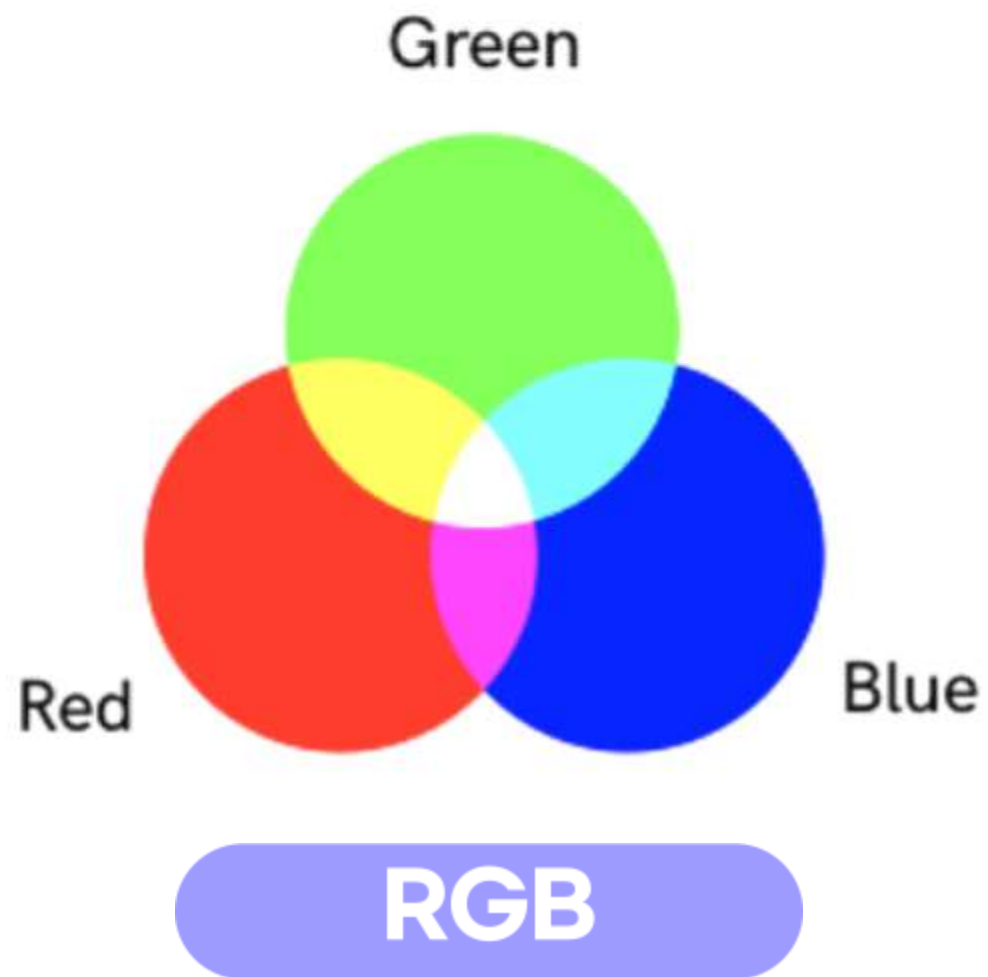


clustering color(k=4)



"어두운 초록색"

Color Extraction 개선



Color Extraction 개선

시각장애인분들이 파란색, 노란색 등
단순한 색깔 이름이 잘 와닿지
않으므로 “부드러운”, “상큼한” 등의
표현이 추가되었으면 좋겠다는 의견 수용

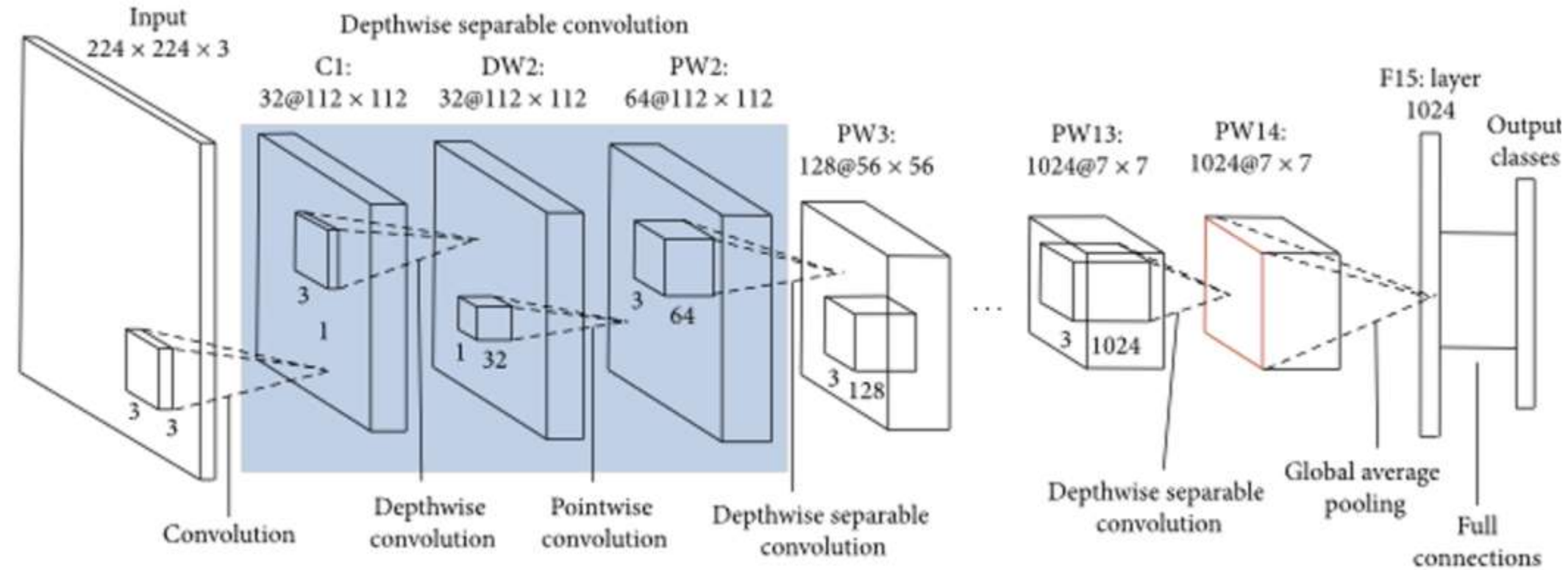


- + 부드러운 노란색
- + 부드러운 라벤더색
- + 부드러운 분홍색
- + 부드러운 아이보리색
- + 상큼한 민트색
- + 생기있는 초록색
- + 어두운 갈색
- + 어두운 남색
- + 어두운 초록색
- + 어두운 회색
- + 어두컴컴한 검정색
- 우아한 올리브색
 - 0: "부드러운 베이지색"
 - 1: "부드러운 아이보리색"
 - 2: "어두컴컴한 검정색"
 - 3: "점잖은 남색"
- + 은은한 복숭아색

"무슨 옷이야?"

KOBOTEN

Pattern



"체크 무늬"

"무슨 옷이야?"

KOBOTEN

Cloth Classification



origin



remove background



grayscale



crop & resize

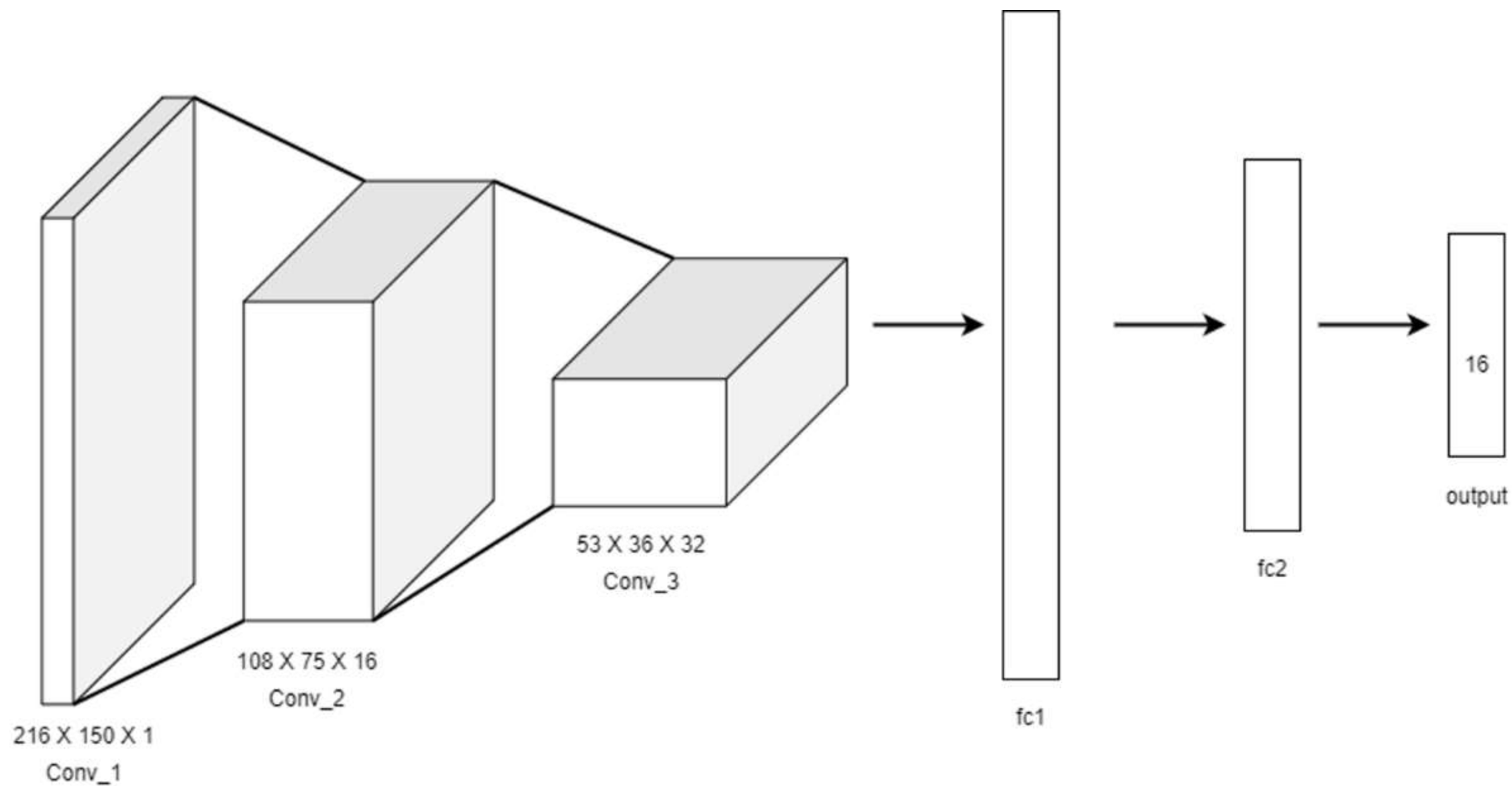


extend

"무슨 옷이야?"

KOBOTEN

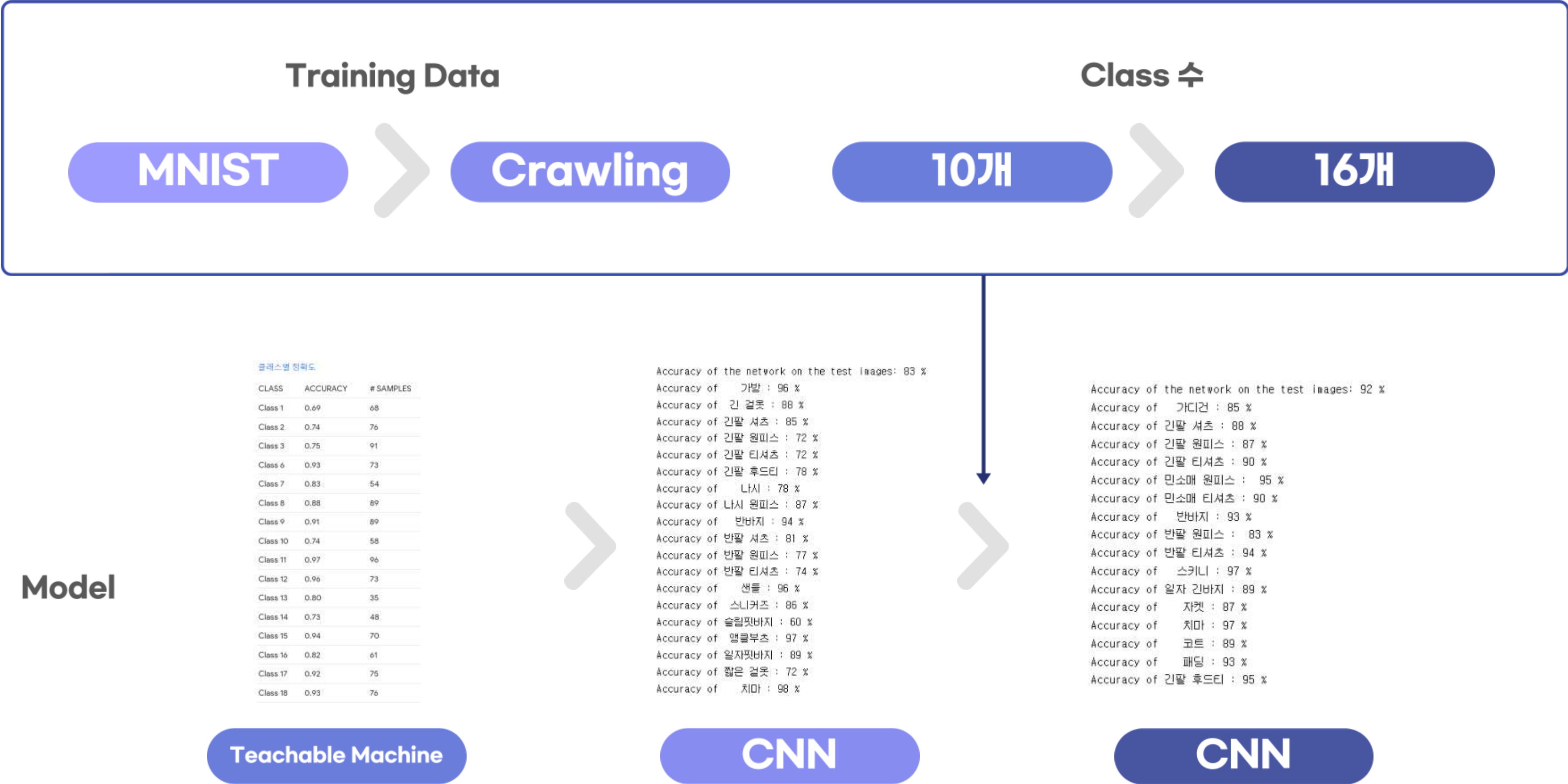
Cloth Classification



> "반팔 티셔츠"

Cloth Classification 개선

KOBOTEN



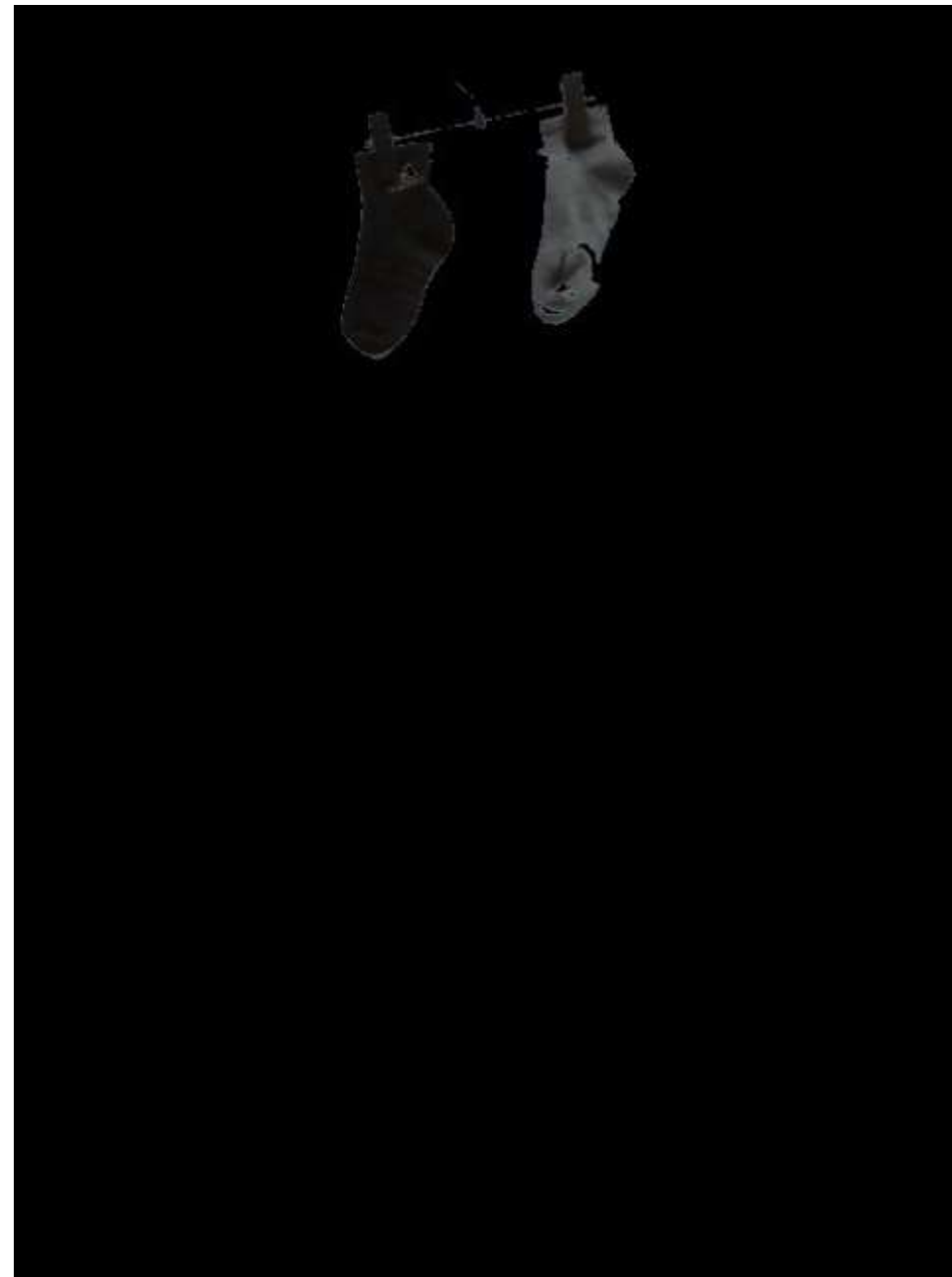
"무슨 옷이야?"

KOBOTEN



"양말 구별해 줘"

KOBOTEN



"두 양말의 색이 달라요.
왼쪽은 검정색,
오른쪽은 회색입니다."

"양말 구별해 줘"

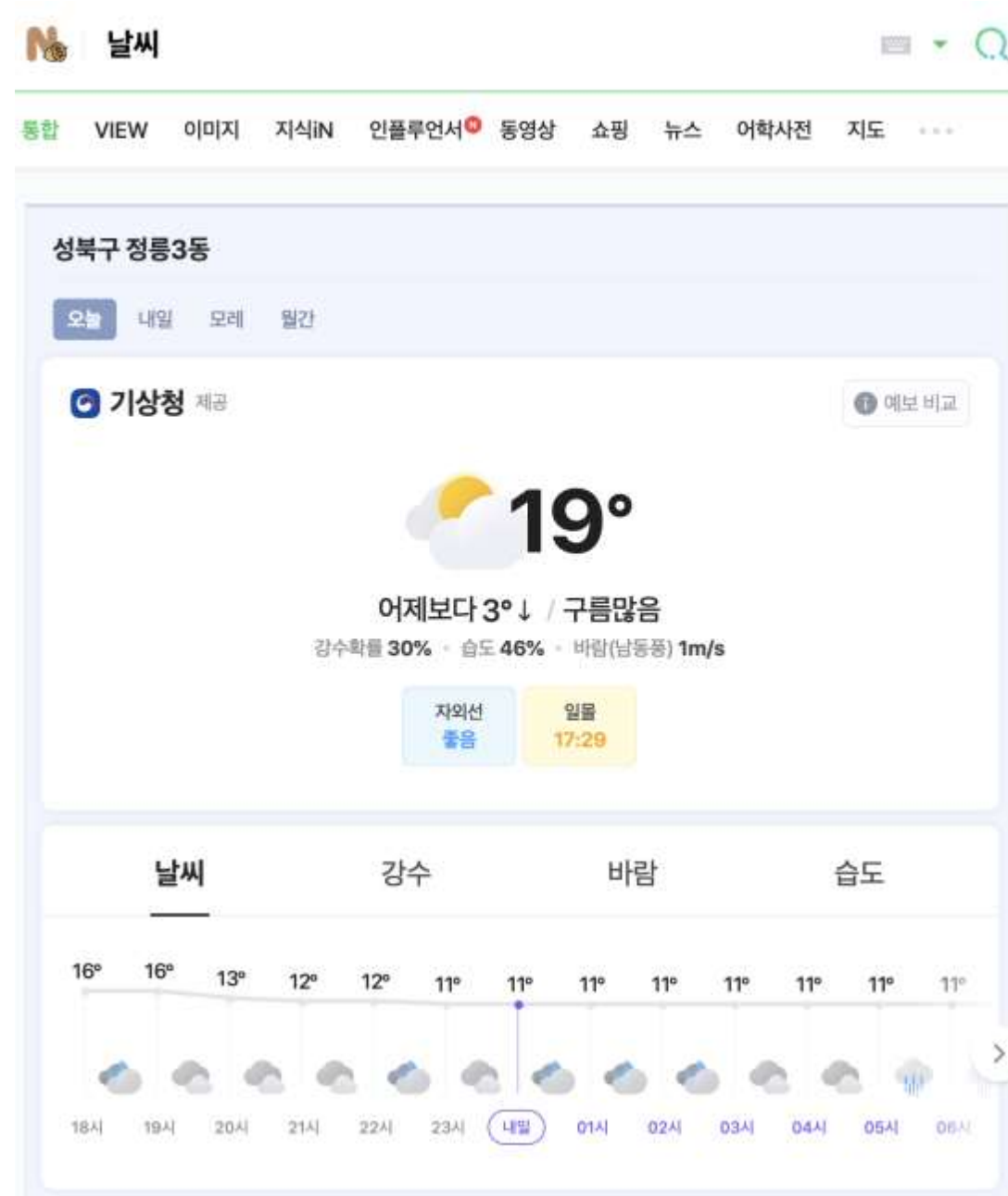
KOBOTEN



"두 양말의 색이
검정색으로 같아요"

"날씨 알려줘"

KOBOTEN



Crawling



"날씨 정보"
"우산, 겉옷 필요성"

"추천해 줘"

KOBOTEN

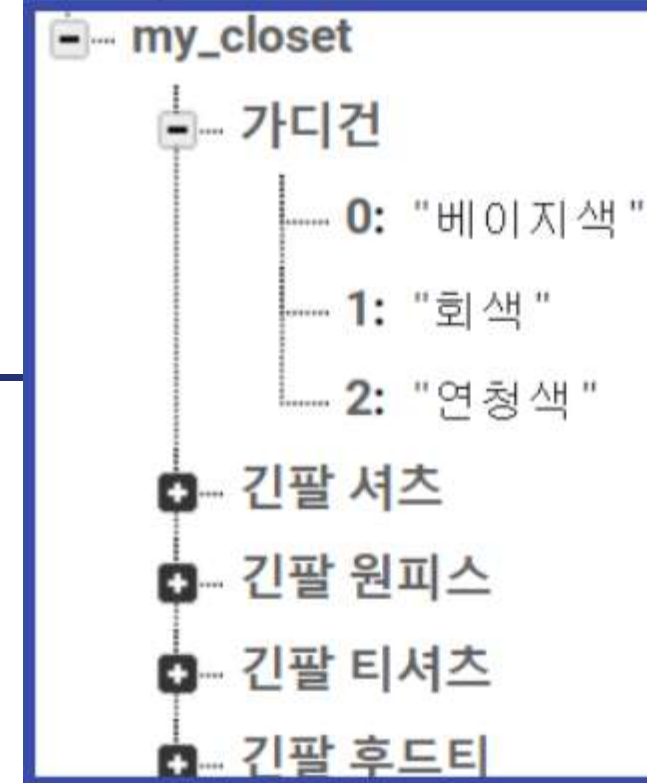


어두운 남색과
어울리는 색 추천

치마 > 상의 추천

기온별 옷차림

DB



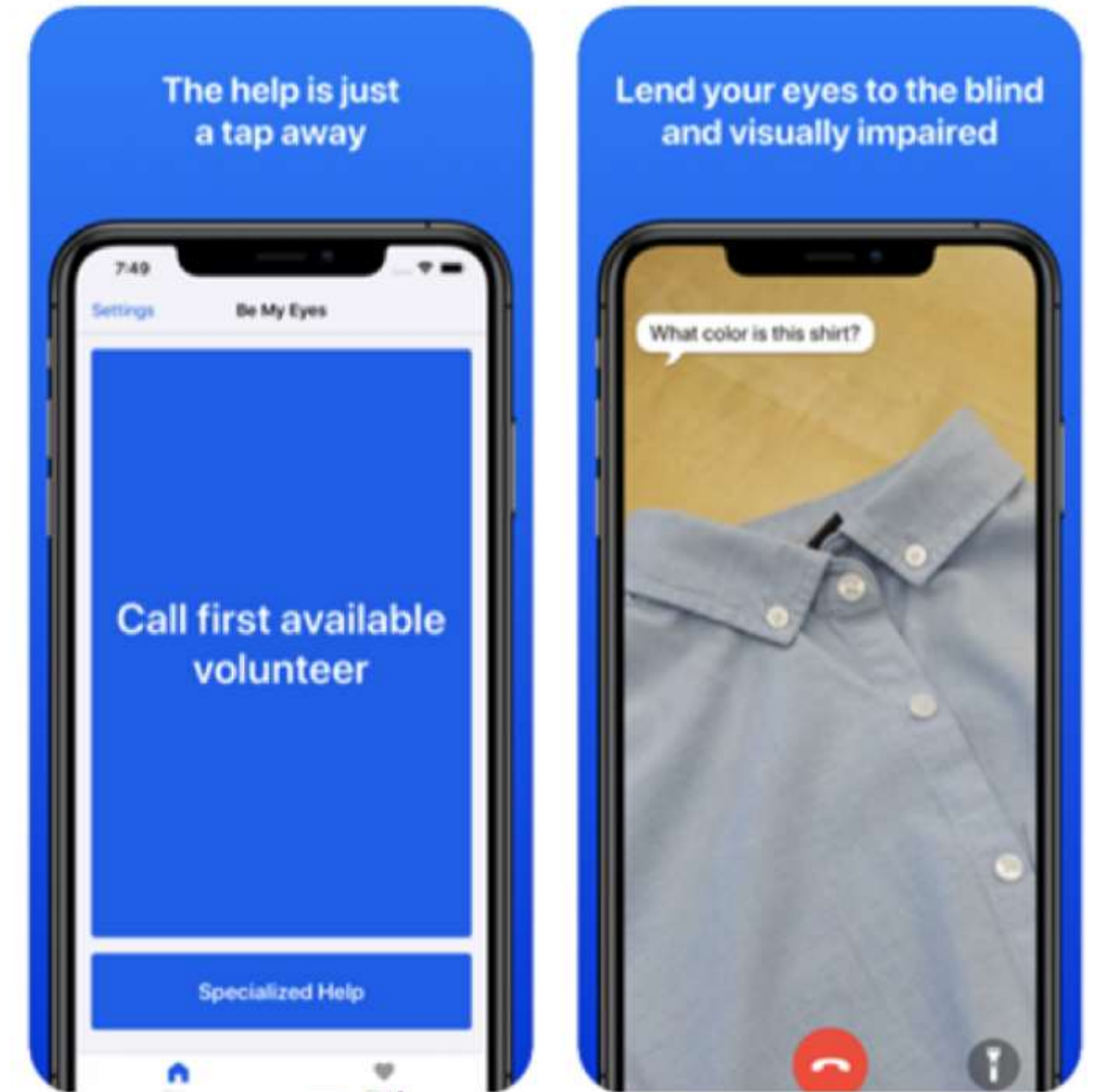
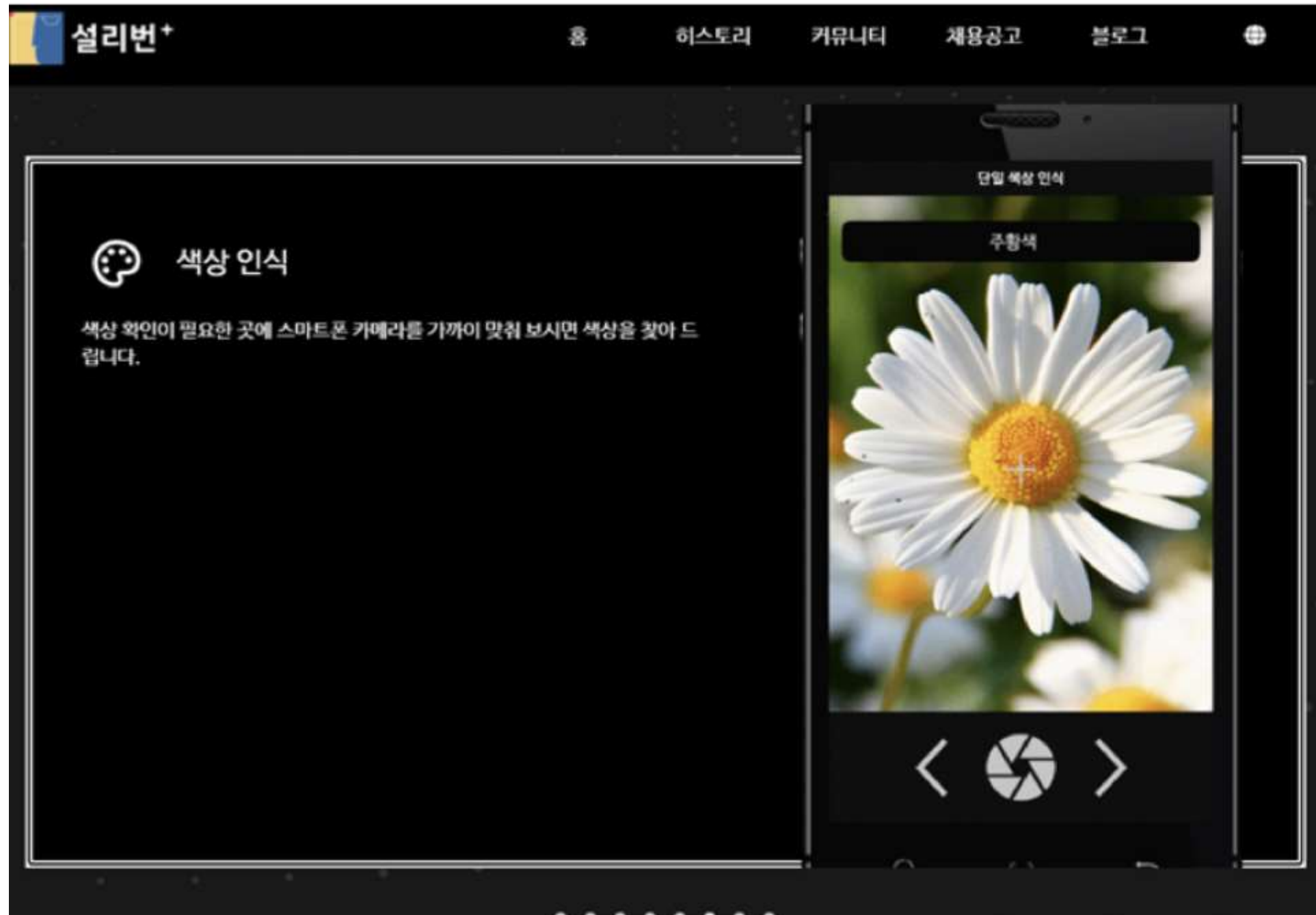
"베이지색
가디건이
옷장에 있습니다."

19°

어제보다 3°↓ / 구름많음
강수확률 30% · 습도 46% · 바람(남동풍) 1m/s

Differentiations

KOBOTEN



Results

기대 효과

KOBOTEN



passive



active



slow



fast

Results

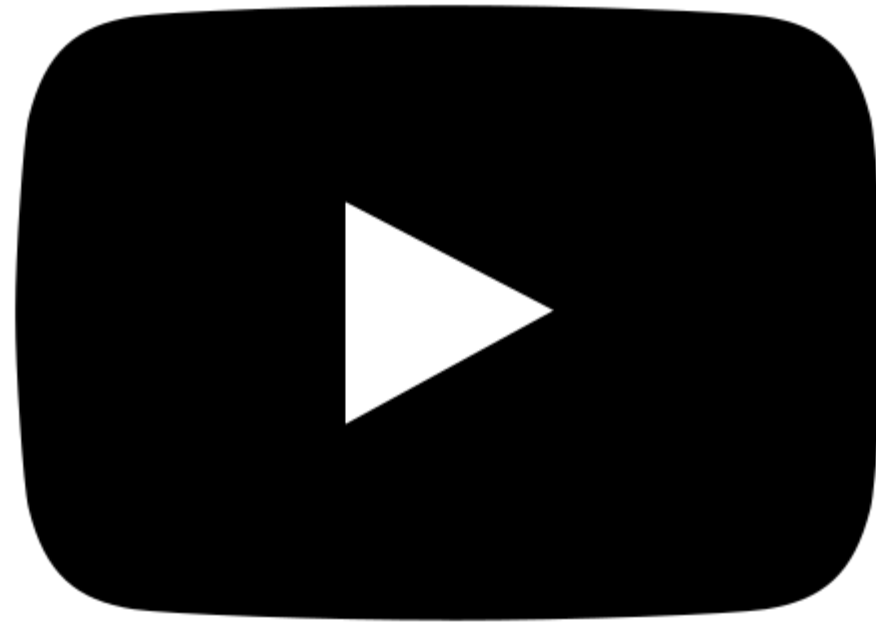
향후 계획

KOBOTEN



"시연 영상"

KOBOTEN



감사합니다