

LABELING OF STANDARD SELFIES INTO 18 CLASSES

18CL_selfie

GOAL: to label standard selfies into 18 classes based on the presence of the classes on the photo:

- BACKGROUND
- FOREGROUND
- HAIR
- BODY SKIN
- FACE SKIN
- EARS
- BEARD
- BROWS
- SCLERA- PUPIL
- IRIS
- NOSTRILS
- LIPS
- TEETH
- TONGUE
- OTHER IN THE MOUTH
- CLOTHES
- OTHER



Color indexes 18CL_selfie

Label	Color Index
FOREGROUND/Передний план	#00FF00
BACKGROUND/Задний план	#FF0000
HAIR/Волосы	#0000FF
BODY SKIN/Кожа тела	#FFF000
FACE SKIN/Кожа лица	#FFFFFF
EARS/Уши	#00AD69
BEARD/Борода	#FF00EA
SCLERA/Белок	#00FFFF
PUPIL/Зрачок	#FFAF60
IRIS/Радужка	#9F9FFF
BROWS/Брови	#420060
LIPS/Губы	#870505

TEETH/Зубы	#FFC761
TONGUE/Язык	#2E612F
OTHER IN THE MOUTH/Остальное во рту	#FF5B00
NOSTRILS/Ноздри	#000000
CLOTHES/Одежда	#525252
OTHER/Остальное	#DD8898

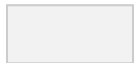
3) Labeling of sets 18CL_selfie

BACKGROUND:

- everything that is behind the person or thin objects that cover the person and extend beyond person's boundaries (based on logic);
- pillows in front of the person that cover the body **insignificantly**, so **a lot** of the body is visible (based on logic)
- if a person is lying on a bed and it makes more sense for the small space in front of them to be made into a background (based on logic);
- headphones wires, seat belts – the part of them that extends beyond the boundaries of the person;
- pillows, headrests, etc., that cover the body, face, and head insignificantly

FOREGROUND:

- objects located in front of the person or **significantly** covering them, such as tables, glasses, blankets, etc., even if they do not extend beyond the boundaries of the person;
- a fragment of another person (part of a hand, leg, etc.), accidentally captured in the frame and **significantly** overlapping the object being labeled



- hair
- it is permissible to label small or poorly distinguishable hairpins in the hair, especially if they match the tone of the hair color

BODY SKIN:

- any skin of the human body except for the skin of the face and ears, starting from the area between the oval of the face and the neck along the conditional boundary of the lower jaw;
- neck, arms, hands;
- torso, if it is exposed;
- bald spots along the conditional hairline (if a **significant** angle);
- head (everything outside the bounds of the conditional face line)

FACE SKIN:

- facial skin along the boundary of the lower jaw (facial oval, conditionally where cream is applied, except for the ears, nostrils, lips, oral cavity, and eye slits).

EARS:

- ears along a straight line connecting the lower and upper points of contact of the ear skin with the skin of the head

BEARD:

- beard, mustache;
- sideburns;
- visible stubble that would logically be colored if necessary.

SCLERA:

- the eye slit along the skin slit, including the tear gland.

PUPIL:

- pupil (the black dot in the center of the iris).

IRIS:

- iris (the colored circle by which we determine a person's eye color).

BROWS:

- brows.

LIPS:

- - lips, including the inner part of the lips.

TEETH:

- teeth up to the gumline, even if they are metal teeth or dentures;
- if there are visually significant gaps between the teeth, they need to be cut out.

TONGUE:

- tongue.

OTHER IN THE MOUTH:

- gums;
- palate;

- inside of the mouth;
- braces, if they are clearly visually distinguishable and differ in tone from the white color of the teeth;
- this class does not include items that a person holds in their mouth (cigarette, lollipop, piercing, pacifier, etc.) or is eating (ice cream, cocktail straw, etc.)

NOSTRILS:

- nostrils by the inner circumference, not just the darkened part;
- if you stick a finger in the nose, where we can't see the finger, that is the beginning of the nostril.

CLOTHES:

- a person's clothing;
- hood on the head;
- hijab and burqa, scarves draped over the head and merging into clothing, national turban;
- clothing, towels draped over the shoulders;
- items on a person's clothing (wires from headphones, ribbons and cords from badges, the part that is on the clothing), the badges themselves;
- items, for example, books, mobile phones lying on a person's body;
- car seat belts (cut along the edge of the clothing, i.e. if it lands on the body, classify as OTHER);
- scarves, if they are on the clothing or it does not make sense to separate them from the clothing (for example, a scarf on a bare neck, clearly separated from clothing, classify as OTHER).

OTHER:

- jewelry (earrings, bracelets, chains, rings, laces, etc.) - the part that is not on the clothing (the part that is on the clothing - CLOTHES).
- headphones\earbuds;
- headphone wires on skin, hair, BUT on BACKGROUND and CLOTHES we do not label wires at all;
- backpacks, bags, bag handles, backpack straps;
- items in hands, such as cigarettes, bottles, glasses, etc. (BUT: umbrellas, strings from balloons, and laces from any items are cut at the edge of the hand and made BACKGROUND);
- items in the mouth, such as a cigarette;
 - glasses (in prescription glasses we label the visible object of the required class behind the lenses), in sunglasses fill the lenses with solid OTHER color;
- carnival or respiratory masks on the face;
- hair ties, hair clips in hair;
- hats, headgear, ears, crowns, and other decorations including wire ones; - earrings and piercing,

including on the face;

- shoes and gloves;
- scarf, if it is on a bare neck and separated from clothing.

4) How to save a labeled file

The labeled file must be saved in PNG-8. When renaming the labeled file, add the prefix “_map” to the original name of the photo, for example: **selfie.jpg > selfie_map.png**. Combine the labeled images into one folder with original photos.

Pay attention to the correct sequence of layer overlays after the final labeling of all classes present in the photo; also, it is necessary to **check the color index compatibility after saving!**

Check the photos for the presence of stray pixels at the junctions of classes. If necessary, manually paint over them using the PENCIL tool.