TrueFace Collection Guidelines

The objective of this project is to collect a diverse dataset of **3 classes** of image captures:

1. Current neutral selfies
2. Current head-pose captures
3. Historical facial images

This to support machine-learning research. The primary focus is on **volume and variation**.

In order to have a robust facial recognition model we require exposure to a wide range of real-world conditions and true within-person variation, including:

- Different lighting conditions
- Different days, months, and years
- With and without glasses
- Changes in hairstyle, facial hair, and accessories
- Natural variation in pose (yaw, pitch, and roll)
- A range of facial expressions (no extreme facial expressions)
- Weather and indoor/outdoor environments
- Historical images showing natural aging

Submission Targets and Minimums

You are expected to submit images across three categories. We recommend you send **30 images total** since the minimum target for payment is 20 valid. The maximum pay out is 24.(to maximize your chances of getting the full pay out, you can send 30 images and the quality team will use the best 24)
**The absolute minimum for a submission to be valid is 20 pictures)

Type	Minimum	Payout	Recommended
Front Facing Neutral	4	4	6
Head Pose	4	4	6
Historical Images	12	16	18

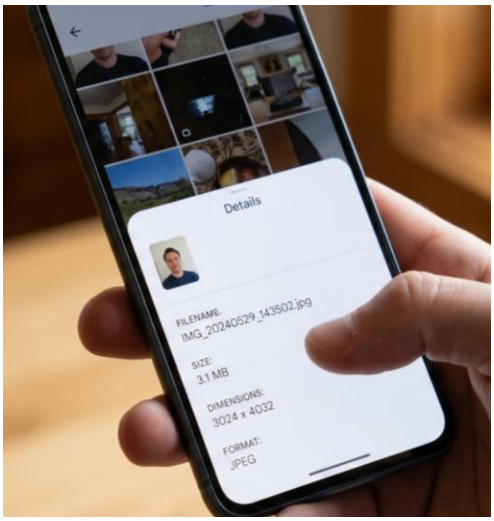
Data Collection Requirements

Image Integrity and Source

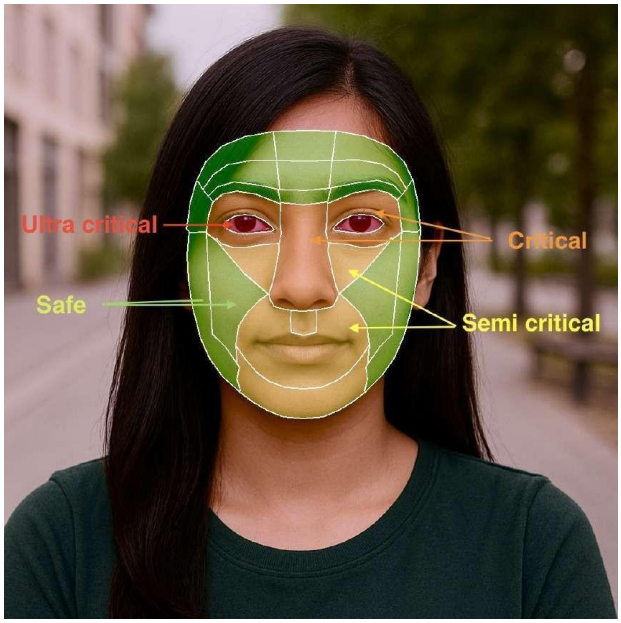
- **Authenticity:** All images **MUST** be **original digital photos** captured directly by a device camera (front-facing for neutral/pose) or original digital files from your gallery (historical).
- **MUST NOT** submit any of the following (as these risk rejection of the entire submission):
    - AI-generated, synthetically altered, or heavily filtered images.
    - Screenshots, photos of screens, or photos of printed photos.
    - Mirror, Window or glass captures or images heavily altered to change identity.
- **Duplicates:** Do not submit the same image more than once. Do not submit images that look like or with the same background.
- **Cropping:** Cropped images are strictly prohibited and will be rejected, this includes for Neutral selfies, Pose variations and Historical images.

General Capture Rules (All Classes)

- **Filters:** Turn **OFF** all beautification features, including skin smoothing, face slimming, eye enlargement, whitening, and portrait/bokeh mode.
- **Occlusion:** The face **MUST** be fully visible. Avoid hair covering one or both eyes, and do not cover your nose or mouth with a mask, scarf, or hand.
- **Multiple Faces:** The image **MUST NOT** contain any other recognizable faces.
- **File Size:** Minimum 128 KB and Maximum 300 MB. You can check the file size and Image pixels if you go to the image and go to the **Details/Info** option.



- **Resolution (Face Size):** The visible face region (hairline to chin) **MUST** be at least **512 x 512 pixels** for captures.



Current Front-Facing Neutral Captures

4 - 6 Current Neutral Selfies: Each capture must be **taken on the spot** and SHOULD look different or be taken in a different environment (lighting, background, looks, expression), taken at an arm's length, with an un-occluded clear frontal face. Think of the motion of unlocking a phone — avoid near-duplicate images.

- **Capture:** Use the **front camera** at arm's length (approx. 30–60 cm) and on the spot versus a saved image from the past.
- **Pose:** Face **SHOULD** be frontal, looking directly at the camera. Ideal maximum tilt is Yaw ≤ 15° and Pitch ≤ 10°.
- **Expression: Neutral or mild** (relaxed face or slight smile). Eyes **MUST** be open.
- **Variation:** Encouraged variation in clothing, hairstyle, lighting, and background across the captures; avoid near-duplicate images.
- **Glasses:** You are allowed to wear corrective glasses, but **at least 1-2 captures MUST be without glasses**. If wearing glasses, the eyes and pupils **MUST** be clearly visible.
- **Lighting:** Use bright, even lighting (daylight preferred) where both eyes, nose, and mouth are clearly visible. Avoid strong shadows across the eyes or nose.



Capture 1: Neutral expression | Capture 2: Change of clothing, expression, lighting. | Capture 3: Change of hairstyle and lighting



Capture 1: First neutral capture | Capture 2: Change of clothing, neutral expression, lighting and background. | Capture 3: Change of expression (slight smile), lighting and background.

Current Head Poses Captures

4 - 6 Head-Pose Captures from **one assigned** variation

- Variation A — Straight-Axis Set:
  - pose_1 = pitch up
  - pose_2 = left yaw
  - pose_3 = pitch down
  - pose_4 = right yaw
- Variation B — Diagonal Set:
  - pose_5 = up-left
  - pose_6 = up-right
  - pose_7 = down-left
  - pose_8 = down-right

Head-Pose Captures

Head-pose captures intentionally introduce controlled variations in pose. Each image

MUST still be a front-camera capture, taken at arm's length, with full face visibility and ideally neutral expression.

Yaw and Pitch describe the specific ways a participant must rotate their head to create the required Head-Pose captures.

Pitch (Tilting Up and Down): Pitch refers to tilting the head upward or downward along the vertical axis (similar to nodding "yes")

- For a Pitch Up capture, the target angle is an upward tilt of about 20° (with an acceptable range of 10° to 30°)
- For a Pitch Down capture, the target angle is a downward tilt of about 20° (with an acceptable range of -10° to -30°)

Yaw (Turning Left and Right): Yaw refers to turning the head to the left or right along the horizontal axis (similar to shaking your head "no")

- For a Left Yaw capture, the target angle is a leftward turn of about 30° (with an acceptable range of 20° to 45°)
- For a Right Yaw capture, the target angle is a rightward turn of about 30° (with an acceptable range of -20° to -45°)

Roll (Tilting the head Side-to-Side): Similar to bringing your ear toward your shoulder

- Acceptable ≤ 45°

Lighting: Same as **Neutral.**

Pose Variation A & B

Variation A — Straight-axis (Pose 1 - Pose 4):

- pose_1 = pitch up (pitch +10° to +30°)
- pose_2 = left yaw (yaw +20° to +45°)
- pose_3 = pitch down (pitch −10° to −30°)
- pose_4 = right yaw (yaw −20° to −45°)

Variation B — Diagonal (Pose 5 - Pose 8):

- pose_5 = up-left (pitch +15° to +25°, yaw +20° to +35°)
- pose_6 = up-right (pitch +15° to +25°, yaw −20° to −35°)
- pose_7 = down-left (pitch −15° to −25°, yaw +20° to +35°)
- pose_8 = down-right (pitch −15° to −25°, yaw −20° to −35°)



Pose 1 (UP, pitch +10 to +30°)



Pose 1 (UP, pitch +10 to +30°)



Pose 1 (UP, pitch +10 to +30°)



Pose 2 (LEFT, yaw +20 to +45°)



Pose 2 (LEFT, yaw +20 to +45°)



Pose 2 (LEFT, yaw +20 to +45°)



Pose 3 (DOWN, pitch −10 to -30°)



Pose 3 (DOWN, pitch −10 to -30°)



Pose 3 (DOWN, pitch −10 to -30°)



Pose 4 (RIGHT, yaw –20 to -45°)



Pose 4 (RIGHT, yaw –20 to -45°)



Pose 4 (RIGHT, yaw –20 to -45°)



Pose 5 (UP-LEFT, pitch +15° to +25°, yaw +20° to +35°)



Pose 5 (UP-LEFT, pitch +15° to +25°, yaw +20° to +35°)



Pose 5 (UP-LEFT, pitch +15° to +25°, yaw +20° to +35°)



Pose 6 (UP-RIGHT, pitch +15° to +25°, yaw –20° to –35°)



Pose 6 (UP-RIGHT, pitch +15° to +25°, yaw –20° to –35°)



Pose 6 (UP-RIGHT, pitch +15° to +25°, yaw –20° to –35°)



Pose 7 (DOWN-LEFT, pitch –15° to –25°, yaw +20° to +35°)

Pose 7 (DOWN-LEFT, pitch –15° to –25°, yaw +20° to +35°)

Pose 7 (DOWN-LEFT, pitch –15° to –25°, yaw +20° to +35°)



Pose 8 (DOWN-RIGHT, pitch –15° to –25°, yaw –20° to –35°)



Pose 8 (DOWN-RIGHT, pitch –15° to –25°, yaw –20° to –35°)



Pose 8 (DOWN-RIGHT, pitch –15° to –25°, yaw –20° to –35°)

Historical Images

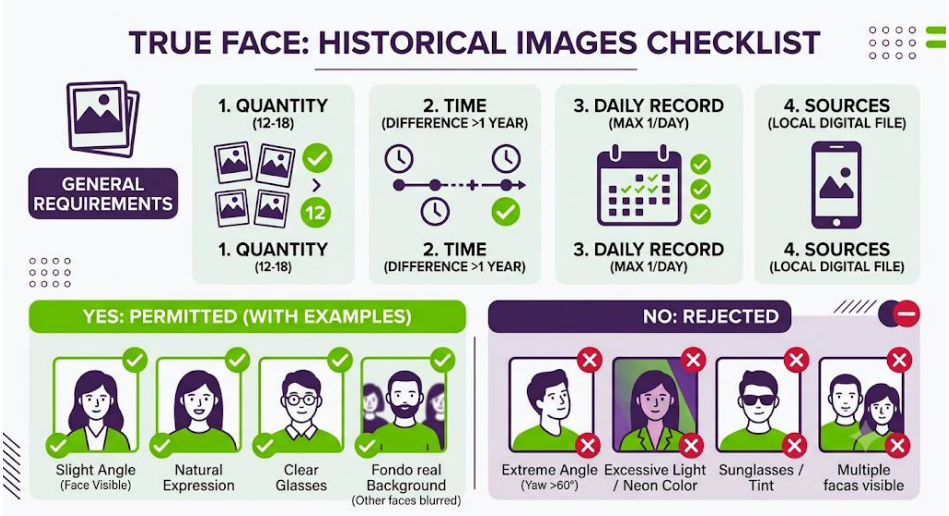
12 - 18 Historical Images capture a participant's natural appearance over time and provide the temporal, stylistic, and contextual variation needed to make face matching robust across years, devices, and environments. Unlike the current Neutral Selfies, Head-Pose capture classes, historical images allow significantly greater freedom in pose, expression (some neutral / mild expressions SHOULD be in each submission), camera type, lighting, and background, reflecting the diversity found in real photo galleries.

- **Purpose:** Show natural variation, age progression, and different environments over time.
- **Source:** All photos must be downloaded directly to your device's local gallery prior to submission. Uploads directly from cloud services (such as Google Photos, iCloud, Drive, etc.) or photos taken of physical, printed pictures probably

won't capture the EXIF data; therefore, your pictures will be rejected. Any digital camera or phone is acceptable with **original digital files**.

- **Time Span:**
  - **MUST span at least 1 year** between the oldest and newest image.
  - At least one historical image **MUST** be **12 months older** than your newest front-facing neutral capture.
  - The gap between the oldest historical image and the newest neutral capture **MUST** be between **12 months and 20 years**.
- **Time Spacing:** Selected photos must span a specific time frame, ranging from a minimum of 1 year ago to a maximum of 20 years ago. They are allowed even if you are not an adult, but it is not necessary to upload exactly one photo per year; selecting photos in chronological order from oldest to most recent from different years is highly recommended. As well, each historical image **MUST** be at least **1 day apart** from the others. No more than **one image per calendar day** is allowed.
- **Pose:** Side angles and head tilt are allowed. The face **MUST** remain fully visible and readable. Avoid extreme angles (hard rejection limits: yaw > 60°, pitch > 30°, roll > 45°).
- **Occlusion:** Natural occlusions are tolerated (e.g., light hair on the forehead, a hand resting on the cheek) as long as critical facial areas (eyes, nose, mouth) remain mostly unoccluded.
- **Backgrounds:** Natural backgrounds (streets, events, home, etc.) are encouraged. Ensure that no other visible faces appear in your photos. Only the person hired for this job can be in the pictures, so any extra people in the background must have their faces completely blurred, turned entirely away, or be far enough in the distance to be unidentifiable.
- **Glasses:** Corrective glasses are allowed. **Sunglasses, mirrored, or tinted lenses are NOT allowed**
- **Lighting:** Broader variation is acceptable (indoor/outdoor, day/night), but the face MUST NOT be completely dark, fully blown out, or dominated by a strong neon color cast.

Historical Images Summary:





Religious makeup and headwear are generally acceptable as long as they do not significantly alter or occlude the critical facial regions below the eyebrows.



Back-camera captures and crops are valid as long as the face is clearly visible and retains sufficient resolution.



Casual images, including stronger natural expressions such as hearty smiles, are acceptable.



Camera angle variation is acceptable as long as the face remains clearly visible.



Facial makeup and jewelry are acceptable as long as they do not significantly alter the person's appearance or occlude critical facial regions beyond acceptable thresholds.



Different lighting environments and backgrounds are desirable as long as they are not extreme or overly alienating; for example, neon-lit settings should be avoided.



Headwear, including religious coverings, is acceptable as long as it does not occlude key facial keypoints (e.g., eyes).



For the historical image class, occlusion of the semi-critical chin region is acceptable. The same occlusion would be rejected for front-facing neutral or head-pose captures, where stricter visibility standards apply.

Other Acceptable Examples



The entire head should be within the frame; however, images may be accepted if the full facial area below the hairline is completely visible.



Critical areas such as the philtrum should remain unoccluded. Exceptions apply to body jewelry that are part of the person's normal appearance.



The face should remain unobscured; however, minor occlusions by individual hair strands—even over critical areas such as the nose or eyes—are acceptable.

Common Reasons for Rejection:

Neutral Selfies
Wrong camera (back instead of front); beautification/filters left on; hair covering one or both eyes; extreme expressions; sunglasses; face too small; other faces in the frame; very poor lighting; duplicate or near-duplicate images.

Head Pose
Wrong camera (back instead of front), pose too extreme (near-profile), eyes not visible, strong expression combined with pose, glare on glasses, beautification filters enabled, severe blur.

Historical Images
Screenshots or photos of screens; scans or photos of printed photos; sunglasses or strong tints; heavy glare on glasses; all images from the same short period with no age gap; no image older than

12 months; faces too small or not clearly visible; extreme or distorted expressions; severe blur or artifacts.

All Classes — Hard Rejection



For the front-facing neutral class, it is essential that the image is a genuine front-camera capture. Crops from group photos or similar non-selfie sources are not acceptable.



Mild expression changes are allowed, but strong or exaggerated expressions such as pouting are not acceptable. There must be at least one front-facing neutral capture with a clearly neutral facial expression.



Ideally, no filters should be applied across any classes. For front-facing neutral images, mild filters that do not significantly alter appearance may be accepted, but prominent beautifier or 'fun' filters that change facial structure (e.g., eye enlargement, jaw slimming) are not allowed.



The camera is not at head level



Yaw too extreme



Position seems to be correct but this is not a front-camera capture



Keep the camera angle straight, also the head is being cropped.



Pitch is acceptable range but critical face regions are occluded by hair. Also



The camera is not at head level



Pitch too extreme



The person only shifts their gaze to the right instead of turning their head.



The intended pose cannot be clearly identified, as the image more closely matches the characteristics of a Front-Facing Neutral Capture class example.



The mouth is covered by the scarf occluding the key points (mouth corners).



The hand is occluding the right eye.



Glasses are permitted; however, the eyes must remain clearly visible and unobstructed by glare or reflections.



Headwear, including religious coverings, that obscure crucial facial keypoints.



The mouth is considered a critical key-point and should remain unoccluded.



The hat partially occludes the left iris. Such images should generally be rejected. However, they may be accepted if the batch also contains sufficient acceptable samples where both irises are clearly visible.

Low variation image: Image lacks sufficient variation in setting, lighting, expression, attire, pose, or styling compared to other

uploads within the category.



The first and second images show minimal variation across key factors such as environment, clothing, and expression.

Pose Mix-Up: Participant appears to have swapped requested poses (e.g., uploaded left-yaw when right-yaw was requested), but images are otherwise compliant and usable.



Pose 4 uploaded in Pose 2 slot — EV-36-03 (pose mix-up; no billing impact)



Pose 2 uploaded in Pose 4 slot — EV-36-03 (pose mix-up; no billing impact)