

Curtó & Zarza

The dataset file information is provided below. The labels are stored in JSON format and have been obtained by means of MTurk, see HIT in Figures 15 and 16. The images are labeled according to the following attributes.

```
=====
```

File Information

```
=====
```

- Images (c/samples)
 - 14,248 cropped images of faces. Balanced in terms of ethnicity:
African American, East-asian, South-asian and White.
Mirror images included to enhance pose variation.
- Labels (c/labels)
 - JSON files with attribute information: Gender, Age, Ethnicity,
Hair Color, Hair Style, Eyes Color, Facial Hair, Glasses,
Visible Forehead, Hair Covered and Smile.
- HDCGAN Synthetic Images (c/hdcgan)
 - 4,239 images of faces generated by HDCGAN trained on CelebA.
- Additional Images (c/extra)
 - 3,384 cropped images of faces with labels. Ethnicity: White.

```
=====
```

Attribute Information

```
=====
```

- Gender
 - value = { "male", "female" }
- Age
 - value = { "baby", "kid", "teenager", "early_adulthood", "middle_aged",
"adult", "senior", "retirement", "elderly" }
- Additional Comments
 - value="baby" Baby (0-2)
 - value="kid" Kid (3-7)
 - value="teenager" Teenager (8-17)
 - value="early_adulthood" Early Adulthood (18-27)
 - value="middle_aged" Middle Aged (28-37)
 - value="adult" Adult (38-47)
 - value="senior" Senior (48-57)
 - value="retirement" Retirement (58-67)
 - value="elderly" Elderly (+68)
- Ethnicity
 - value = { "east_asian", "white", "black", "south_asian", "other" }
- Additional Comments
 - value="east_asian" East Asian (China, Japan, Korea, Taiwan, ...)

```
value="south_asian" South Asian (India, Afghanistan, Pakistan, ...)

- Hair Color
value = { "blonde", "brown", "black", "white", "red", "other" }

-- Additional Comments
value="other" Other / Not Visible

- Hair Style
value = { "bald", "short_straight", "short_curly", "long_straight",
"long_curly", "other" }

-- Additional Comments
value="bald" Bald / Shaven
value="other" Other / Not Visible

- Eyes Color
value = { "brown", "blue", "green", "other" }

-- Additional Comments
value="other" Other / Not Visible

- Facial Hair
value = { "no", "light_mustache", "thick_mustache", "light_goatee",
"thick_goatee", "light_beard", "thick_beard" }

- Glasses
value = { "no", "eyeglasses", "sunglasses" }

- Visible Forehead
value = { "no", "yes" }

- Hair Covered
value = { "no", "turban", "cap", "helmet" }

-- Additional Comments
value="turban" Turban / Veil / Kerchief
value="cap" Cap / Hat

- Smile
value = { "no", "yes" }
```

Facial Feature Recognition

Disclaimer: By answering the following questions, you are participating in a big data study being performed by computer vision scientists. Your participation in this research is voluntary. You may decline further participation, at any time, without adverse consequences. Your anonymity is assured; the researchers who have requested your participation will not receive any personal information about you.

Please complete this HIT as accurately as possible. You must answer to all questions. You will not be paid for incomplete or intentionally wrong answers.

You have to label the features of the face in the image.

- You have to choose one tag for each attribute and answer ALL questions.
- The eye region has been enlarged in the first shown image. Please answer the questions looking carefully at the images below.
- You can see some examples at the Help webpage: [Face Labeling Help](#)

[Continue](#)

Figure 15. HIT. MTurk. Preview example of welcoming page.

Facial Feature Recognition

Please help us out by answering the following questions about the shown image. You must answer all of the questions marked with an asterisk (*).

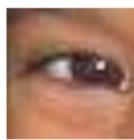
	*Gender? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Age? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Ethnicity? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Hair Color? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Hair Style? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Eye Color? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Facial Hair? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Glasses? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>
	*Visible Forehead? <input style="width: 150px; height: 20px; border: 1px solid black; border-radius: 5px; padding: 2px; margin-bottom: 5px;" type="text" value="Please select"/>

Figure 16. HIT. MTurk. Preview example of labeling page.

Attribute Examples

Labeling examples of facial hair, hair style and ethnicity are provided in Figures 17, 18 and 19.

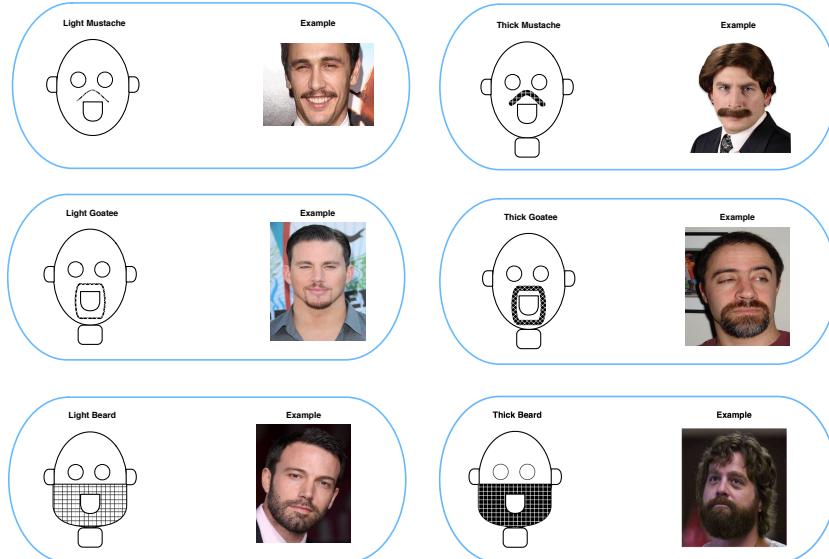


Figure 17. Facial Hair. Face labeling help examples for attribute of facial hair.

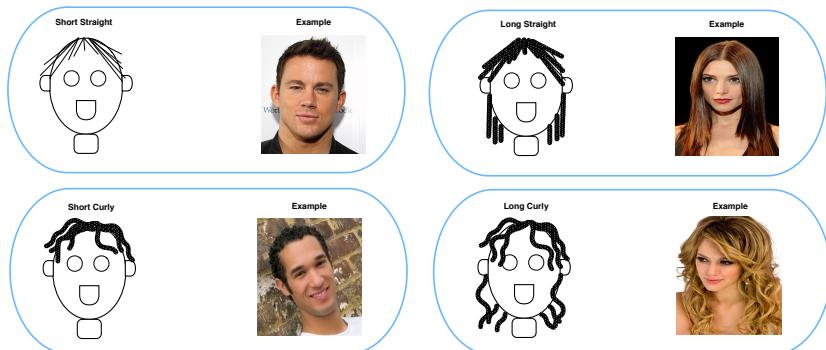


Figure 18. Hair Style. Face labeling help examples for attribute of hair style.

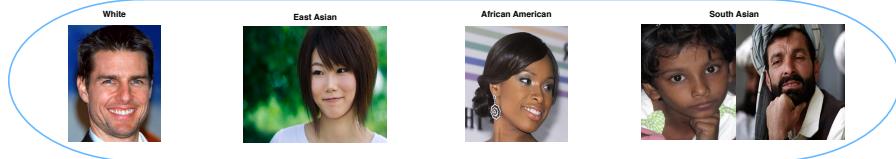


Figure 19. Ethnicity. Face labeling help examples for attribute of ethnicity.