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

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File Information

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- Images (img/cz.zip)

14,248 cropped face images. Balanced in terms of ethnicity:
african american, east-asian, south-asian and white.
Mirror images included to enhance pose variation.
- Labels (label/cz.zip)

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 (hdcgan/cz.zip)

4,239 face images generated by HDCGAN trained on CelebA dataset.
- Additional Images (extra/cz.zip)

3,384 cropped face images with labels, Ethnicity: white.

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Attribute Information

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- 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, ...)

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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",

```

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. Amazon Mechanical Turk. 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"/>
	*Eyes 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. Amazon Mechanical Turk. Preview example of welcoming page.

Attribute Examples

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

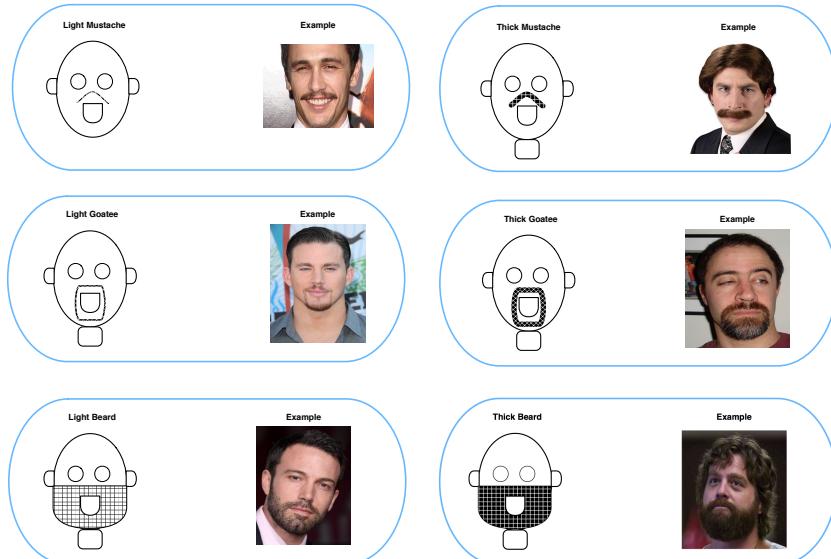


Figure 17. Facial Hair Attribute. Face labeling help examples for facial hair attribute.

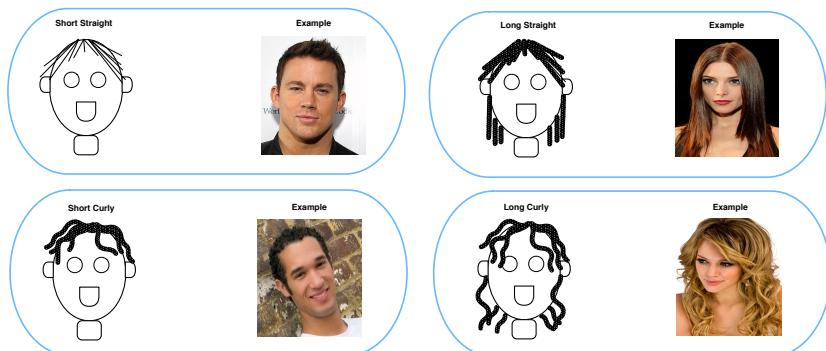


Figure 18. Hair Style Attribute. Face labeling help examples for hair style attribute.



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