

## CZ Faces (CZF) Dataset

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 13, 14. The images are labeled according to the following attributes.

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### File Information

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- Images (img/CZF.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/CZF.zip)
  - JSON files with attribute information: Gender, Age, Ethnicity, Hair Color, Hair Style, Eyes Color, Facial Hair, Glasses, Visible Forehead, Hair Covered and Smile.

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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, ...)
  - value="south\_asian" South Asian (India, Afghanistan, Pakistan, ...)
- Hair Color
  - value = { "blonde", "brown", "black", "white", "red", "other" }
- Additional Comments
  - value="other" Other / Not Visible

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- 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 13. Amazon Mechanical Turk HIT. 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 (\*).




	<p><b>*Gender?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Age?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Ethnicity?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Hair Color?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Hair Style?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Eyes Color?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Facial Hair?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Glasses?</b></p> <p>Please select <input type="button" value="v"/></p>
	<p><b>*Visible Forehead?</b></p> <p>Please select <input type="button" value="v"/></p>

Figure 14. Amazon Mechanical Turk HIT. Preview example.

## Attribute Examples

Labeling examples of ethnicity, hair style and facial hair attributes are provided in Figure 15, 16, 17.

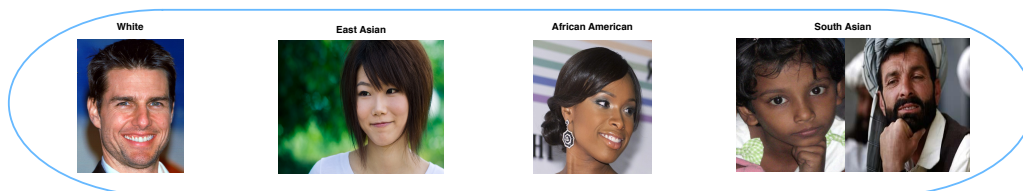


Figure 15. **Ethnicity Attribute.** Face labeling help examples for ethnicity attribute.

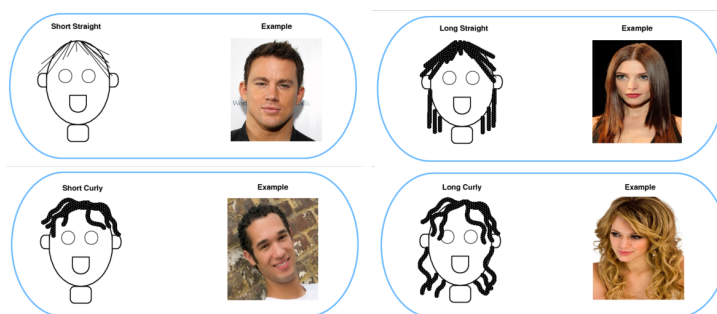


Figure 16. **Hair Style Attribute.** Face labeling help examples for hair style attribute.

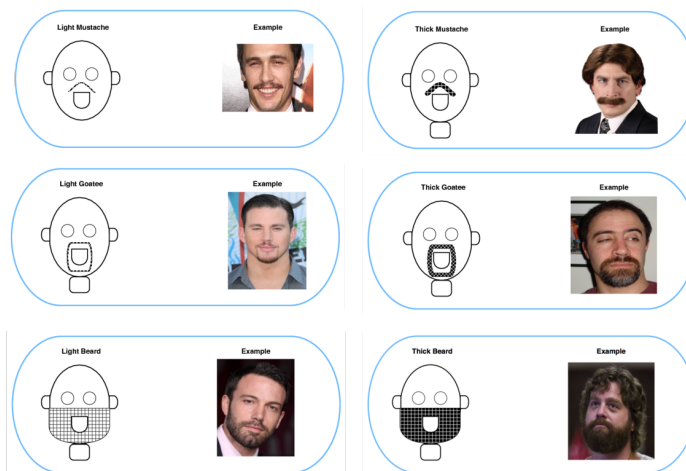


Figure 17. **Facial Hair Attribute.** Face labeling help examples for facial hair attribute.