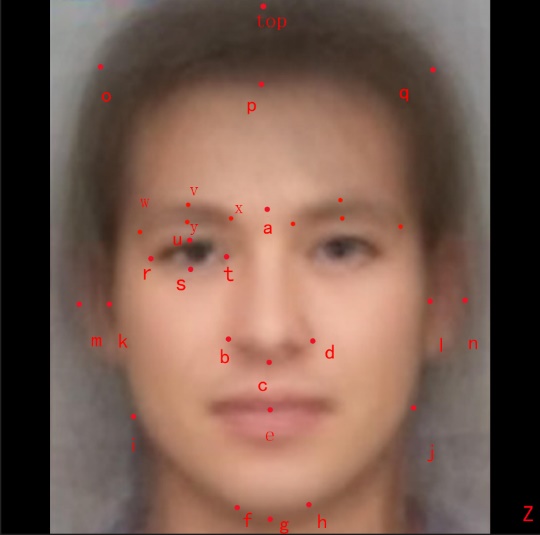
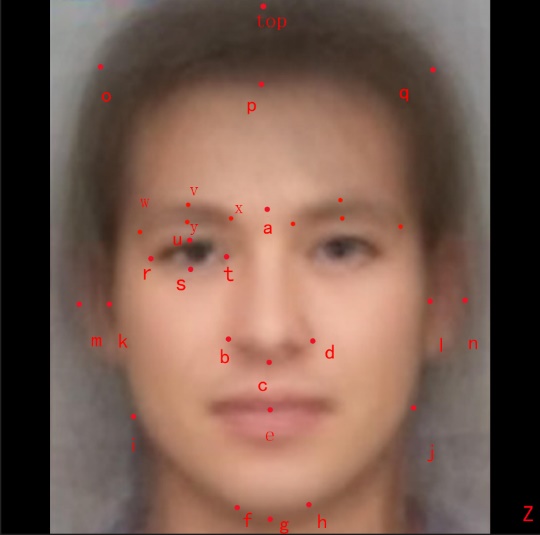
R DATA表格



|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 長度參數定義 | | | 面積參數定義 | | | 角度參數定義 | | |
| LA2 | nose |  | R1 | nose | abcd | A1 | nose | ∠abd |
| LA8 | faceL |  | R2 | faceR | aigj | A2 | faceA | ∠aig |
| LA9 | faceL |  | R3 | chin | ifgj | A3 | ear | ∠alc |
| LB3 | nose |  | R4 | faceR | okeq | A4 | nose | ∠bcd |
| LA3 | mouth |  | R5 | faceR | pkgl | A5 | chin | ∠fgh |
| LA10 | faceL |  | R6 | eye | rstu | A6 | chin | ∠hgz |
| LB5 | chin |  |  |  |  | A7 | chin | ∠igz |
| LB4 | jaw |  |  |  |  | A8 | chin | ∠jgz |
| LB2 | faceL |  |  |  |  | A9 | faceA | ∠kig |
| LB6 | ear |  |  |  |  | A10 | faceA | ∠lcz |
| LB1 | faceL |  |  |  |  | A11 | faceA | ∠lez |
| LA1 | faceL |  |  |  |  | A12 | faceA | ∠qaz |
| LA5 | faceL |  |  |  |  | A13 | faceA | ∠qpz |
| LA6 | faceL |  |  |  |  | A14 | eyebrow | ∠pwy |
| LA7 | faceL |  |  |  |  | A15 | eyebrow | ∠vwy |
| LA11 | eye |  |  |  |  | A16 | eyebrow | ∠pxy |
| LA4 | mouth |  |  |  |  | A17 | eyebrow | ∠vxy |
| LA12 | eyebrow |  |  |  |  |  |  |  |
| LB7 | eyebrow |  |  |  |  |  |  |  |

**Excel number**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | country |  |  | **27** | A1 | nose | abd |
| **2** | LA2 | nose | ac | **28** | A2 | faceA | aig |
| **3** | LA8 | faceL | ae | **29** | A3 | ear | alc |
| **4** | LA9 | faceL | ag | **30** | A4 | nose | bcd |
| **5** | LB3 | nose | bd | **31** | A5 | chin | fgh |
| **6** | LA3 | mouth | ce | **32** | A6 | chin | hgz |
| **7** | LA10 | faceL | cg | **33** | A7 | chin | igz |
| **8** | LB5 | chin | fh | **34** | A8 | chin | jgz |
| **9** | LB4 | jaw | ij | **35** | A9 | faceA | kig |
| **10** | LB2 | faceL | kl | **36** | A10 | faceA | lcz |
| **11** | LB6 | ear | mk | **37** | A11 | faceA | lez |
| **12** | LB1 | faceL | oq | **38** | A12 | faceA | qaz |
| **13** | LA1 | faceL | pa | **39** | A13 | faceA | qpz |
| **14** | LA5 | faceL | pc | **40** | A14 | eyebrow | pwy |
| **15** | LA6 | faceL | pe | **41** | A15 | eyebrow | vwy |
| **16** | LA7 |  | pg | **42** | A16 | eyebrow | pxy |
| **17** | LA11 | eye | us | **43** | A17 | eyebrow | vxy |
| **18** | LA4 | mouth | eg |  |  |  |  |
| **19** | LA12 | eyebrow | vy |  |  |  |  |
| **20** | LB7 | eyebrow | wx |  |  |  |  |
| **21** | R1 | nose | abcd |  |  |  |  |
| **22** | R2 | faceR | aigj |  |  |  |  |
| **23** | R3 | chin | ifgj |  |  |  |  |
| **24** | R4 | faceR | okeq |  |  |  |  |
| **25** | R5 | faceR | pkgl |  |  |  |  |
| **26** | R6 | eye | rstu |  |  |  |  |

結果來源raw\_F\_statistics.excel

Data :raw\_F\_statistics\_true(.xlsx)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Japan\_c | USA\_c | Features | Japan\_c | USA\_c | Features | Japan\_c | USA\_c |
|  | mean(std) | mean(std) |  | mean(std) | mean(std) |  | mean(std) | mean(std) |
| LA2 | 0.384 | 0.408 | LA7 | 1.000 | 1.000 | A4 | 134.433 | 127.486 |
| 0.100 | 0.113 | 0.000 | 0.000 | 23.449 | 28.415 |
| LA8 | 1.306 | 0.539 | LA11 | 0.169 | 0.149 | A5\* | 144.066 | 153.260 |
| 6.708 | 0.135 | 0.077 | 0.072 | 28.418 | 24.291 |
| LA9\*\* | 0.735 | 0.794 | LA4 | 0.979 | 0.256 | A6 | 19.963 | 14.521 |
| 0.119 | 0.122 | 6.690 | 0.110 | 28.011 | 11.292 |
| LB3\*\*\* | 0.118 | 0.205 | LA12 | 0.033 | 0.093 | A7 | 149.746 | 150.289 |
| 0.062 | 0.074 | 0.016 | 0.417 | 7.261 | 12.570 |
| LA3 | 0.922 | 0.133 | LB7 | 0.241 | 0.257 | A8\* | 31.756 | 34.923 |
| 6.725 | 0.079 | 0.065 | 0.082 | 7.893 | 9.780 |
| LA10\* | 0.351 | 0.387 | R1\*\*\* | 0.022 | 0.043 | A9 | 133.888 | 131.823 |
| 0.080 | 0.104 | 0.013 | 0.022 | 11.191 | 17.804 |
| LB5\* | 0.211 | 0.274 | R2\*\* | 0.250 | 0.298 | A10\*\* | 45.238 | 51.905 |
| 0.119 | 0.173 | 0.079 | 0.100 | 10.961 | 13.859 |
| LB4\*\* | 0.667 | 0.745 | R3\*\* | 0.075 | 0.095 | A11\*\* | 50.884 | 57.286 |
| 0.141 | 0.194 | 0.036 | 0.048 | 10.370 | 12.953 |
| LB2 | 0.815 | 0.847 | R4 | 0.780 | 0.430 | A12 | 90.006 | 87.246 |
| 0.128 | 0.214 | 2.311 | 0.183 | 11.027 | 13.214 |
| LB6 | 0.133 | 0.113 | R5 | 0.406 | 0.424 | A13\*\* | 72.217 | 65.383 |
| 0.111 | 0.052 | 0.062 | 0.107 | 12.169 | 14.268 |
| LB1\*\* | 0.849 | 0.743 | R6 | 0.017 | 0.016 | A14\*\* | 36.956 | 26.833 |
| 0.171 | 0.252 | 0.013 | 0.012 | 20.871 | 17.514 |
| LA1\*\* | 0.275 | 0.212 | A1\*\*\* | 80.567 | 72.956 | A15\*\* | 15.100 | 19.533 |
| 0.096 | 0.110 | 12.010 | 9.255 | 9.209 | 9.853 |
| LA5\* | 0.650 | 0.613 | A2 | 88.063 | 87.058 | A16\* | 113.961 | 123.066 |
| 0.080 | 0.104 | 9.015 | 16.875 | 26.063 | 25.679 |
| LA6 | 1.571 | 0.745 | A3 | 47.721 | 51.712 | A17\* | 16.253 | 22.178 |
| 6.737 | 0.111 | 9.898 | 16.935 | 10.259 | 19.548 |
|  |  |  |  |  |  |  |  |  |

p-value 以\*來表示

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Japan\_t | USA\_t | Features | Japan\_t | USA\_t | Features | Japan\_t | USA\_t |
|  | mean(std) | mean(std) |  | mean(std) | mean(std) |  | mean(std) | mean(std) |
| LA2 | 0.408 | 0.287 | LA7 | 1.000 | 1.000 | A4 | 137.240 | 135.750 |
| 0.631 | 0.030 | 0.000 | 0.000 | 10.587 | 15.041 |
| LA8 | 0.543 | 0.492 | LA11 | 0.066 | 0.054 | A5\*\* | 142.796 | 150.906 |
| 0.826 | 0.799 | 0.091 | 0.015 | 18.910 | 10.474 |
| LA9 | 0.822 | 0.644 | LA4 | 0.280 | 0.331 | A6\*\* | 18.710 | 14.615 |
| 1.199 | 0.047 | 0.374 | 0.745 | 9.399 | 5.189 |
| LB3 | 0.257 | 0.230 | LA12 | 0.050 | 0.040 | A7 | 144.081 | 145.348 |
| 0.360 | 0.102 | 0.073 | 0.008 | 6.643 | 4.699 |
| LA3 | 0.135 | 0.204 | LB7 | 0.235 | 0.203 | A8 | 35.979 | 34.966 |
| 0.197 | 0.799 | 0.339 | 0.025 | 6.361 | 4.759 |
| LA10 | 0.414 | 0.356 | R1 | 0.164 | 0.034 | A9 | 136.683 | 135.083 |
| 0.569 | 0.030 | 1.107 | 0.017 | 15.595 | 13.793 |
| LB5 | 0.256 | 0.239 | R2 | 0.987 | 0.196 | A10 | 50.350 | 48.692 |
| 0.346 | 0.167 | 6.735 | 0.028 | 13.601 | 6.161 |
| LB4 | 0.745 | 0.615 | R3 | 0.333 | 0.074 | A11 | 56.519 | 54.308 |
| 1.152 | 0.079 | 2.183 | 0.018 | 15.633 | 8.426 |
| LB2 | 0.855 | 0.703 | R4 | 1.803 | 0.395 | A12 | 98.418 | 98.096 |
| 1.316 | 0.123 | 12.244 | 0.299 | 5.401 | 4.305 |
| LB6 | 0.084 | 0.085 | R5 | 0.432 | 0.350 | A13\*\*\* | 70.310 | 63.512 |
| 0.104 | 0.090 | 0.656 | 0.062 | 9.076 | 10.115 |
| LB1 | 0.808 | 0.663 | R6 | 0.016 | 0.004 | A14\*\*\* | 44.872 | 51.530 |
| 1.154 | 0.101 | 0.106 | 0.001 | 8.299 | 7.380 |
| LA1 | 0.446 | 0.356 | A1\*\*\* | 69.655 | 64.834 | A15 | 20.426 | 19.627 |
| 1.126 | 0.047 | 2.579 | 6.096 | 4.879 | 3.755 |
| LA5 | 0.700 | 0.644 | A2 | 91.106 | 89.169 | A16\*\*\* | 107.930 | 102.749 |
| 0.419 | 0.030 | 11.281 | 7.276 | 11.772 | 6.101 |
| LA6 | 0.786 | 0.848 | A3\*\*\* | 50.625 | 43.991 | A17 | 25.408 | 23.212 |
| 0.199 | 0.802 | 12.212 | 9.614 | 9.495 | 4.016 |

JcJt

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Japan\_c | Japan\_t | Features | Japan\_c | Japan\_t | Features | Japan\_c | Japan\_t |
|  | mean(std) | mean(std) |  | mean(std) | mean(std) |  | mean(std) | mean(std) |
| LA2 | 0.384 | 0.408 | LA7 | 1.000 | 1.000 | A4 | 134.433 | 137.240 |
| 0.100 | 0.631 | 0.000 | 0.000 | 23.449 | 10.587 |
| LA8 | 1.306 | 0.543 | LA11\*\*\* | 0.169 | 0.066 | A5 | 144.066 | 142.796 |
| 6.708 | 0.826 | 0.077 | 0.091 | 28.418 | 18.910 |
| LA9 | 0.735 | 0.822 | LA4 | 0.979 | 0.280 | A6 | 19.963 | 18.710 |
| 0.119 | 1.199 | 6.690 | 0.374 | 28.011 | 9.399 |
| LB3\*\* | 0.118 | 0.257 | LA12 | 0.033 | 0.050 | A7\*\*\* | 149.746 | 144.081 |
| 0.062 | 0.360 | 0.016 | 0.073 | 7.261 | 6.643 |
| LA3 | 0.922 | 0.135 | LB7 | 0.241 | 0.235 | A8\*\*\* | 31.756 | 35.979 |
| 6.725 | 0.197 | 0.065 | 0.339 | 7.893 | 6.361 |
| LA10 | 0.351 | 0.414 | R1 | 0.022 | 0.164 | A9 | 133.888 | 136.683 |
| 0.080 | 0.569 | 0.013 | 1.107 | 11.191 | 15.595 |
| LB5 | 0.211 | 0.256 | R2 | 0.250 | 0.987 | A10\* | 45.238 | 50.350 |
| 0.119 | 0.346 | 0.079 | 6.735 | 10.961 | 13.601 |
| LB4 | 0.667 | 0.745 | R3 | 0.075 | 0.333 | A11\* | 50.884 | 56.519 |
| 0.141 | 1.152 | 0.036 | 2.183 | 10.370 | 15.633 |
| LB2 | 0.815 | 0.855 | R4 | 0.780 | 1.803 | A12\*\*\* | 90.006 | 98.418 |
| 0.128 | 1.316 | 2.311 | 12.244 | 11.027 | 5.401 |
| LB6\*\* | 0.133 | 0.084 | R5 | 0.406 | 0.432 | A13 | 72.217 | 70.310 |
| 0.111 | 0.104 | 0.062 | 0.656 | 12.169 | 9.076 |
| LB1 | 0.849 | 0.808 | R6 | 0.017 | 0.016 | A14\*\* | 36.956 | 44.872 |
| 0.171 | 1.154 | 0.013 | 0.106 | 20.871 | 8.299 |
| LA1 | 0.275 | 0.446 | A1 | 80.567 | 69.655 | A15\*\*\* | 15.100 | 20.426 |
| 0.096 | 1.126 | 12.010 | 2.579 | 9.209 | 4.879 |
| LA5 | 0.650 | 0.700 | A2 | 88.063 | 91.106 | A16 | 113.961 | 107.930 |
| 0.080 | 0.419 | 9.015 | 11.281 | 26.063 | 11.772 |
| LA6 | 1.571 | 0.786 | A3 | 47.721 | 50.625 | A17\*\*\* | 16.253 | 25.408 |
| 6.737 | 0.199 | 9.898 | 12.212 | 10.259 | 9.495 |

UcUt

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | USA\_c | USA\_c | Features | USA\_c | USA\_t | Features | USA\_c | USA\_t |
|  | mean(std) | mean(std) |  | mean(std) | mean(std) |  | mean(std) | mean(std) |
| LA2 | 0.384 | 0.408 | LA7 | 1.000 | 1.000 | A4 | 127.486 | 135.75 |
| 0.100 | 0.113 | 0.000 | 0.000 | 28.415 | 15.041 |
| LA8 | 1.306 | 0.539 | LA11\*\*\* | 0.149 | 0.054 | A5 | 153.260 | 150.906 |
| 6.708 | 0.135 | 0.072 | 0.015 | 24.291 | 10.474 |
| LA9 | 0.735 | 0.794 | LA4 | 0.256 | 0.331 | A6 | 14.521 | 14.615 |
| 0.119 | 0.122 | 0.110 | 0.745 | 11.292 | 5.189 |
| LB3\*\* | 0.118 | 0.205 | LA12 | 0.093 | 0.04 | A7\*\*\* | 150.289 | 145.348 |
| 0.062 | 0.074 | 0.417 | 0.008 | 12.570 | 4.699 |
| LA3 | 0.922 | 0.133 | LB7 | 0.257 | 0.203 | A8\*\*\* | 34.923 | 34.966 |
| 6.725 | 0.079 | 0.082 | 0.025 | 9.780 | 4.759 |
| LA10 | 0.351 | 0.387 | R1 | 0.043 | 0.034 | A9 | 131.823 | 135.083 |
| 0.080 | 0.104 | 0.022 | 0.017 | 17.804 | 13.793 |
| LB5 | 0.211 | 0.274 | R2 | 0.298 | 0.196 | A10\* | 51.905 | 48.692 |
| 0.119 | 0.173 | 0.100 | 0.028 | 13.859 | 6.161 |
| LB4 | 0.667 | 0.745 | R3 | 0.095 | 0.074 | A11\* | 57.286 | 54.308 |
| 0.141 | 0.194 | 0.048 | 0.018 | 12.953 | 8.426 |
| LB2 | 0.815 | 0.847 | R4 | 0.430 | 0.395 | A12\*\*\* | 87.246 | 98.096 |
| 0.128 | 0.214 | 0.183 | 0.299 | 13.214 | 4.305 |
| LB6\*\* | 0.133 | 0.113 | R5 | 0.424 | 0.35 | A13 | 65.383 | 63.512 |
| 0.111 | 0.052 | 0.107 | 0.062 | 14.268 | 10.115 |
| LB1 | 0.849 | 0.743 | R6 | 0.016 | 0.004 | A14\*\* | 26.833 | 51.53 |
| 0.171 | 0.252 | 0.012 | 0.001 | 17.514 | 7.38 |
| LA1 | 0.275 | 0.212 | A1 | 72.956 | 64.834 | A15\*\*\* | 19.533 | 19.627 |
| 0.096 | 0.11 | 9.255 | 6.096 | 9.853 | 3.755 |
| LA5 | 0.650 | 0.613 | A2 | 87.058 | 89.169 | A16 | 123.066 | 102.749 |
| 0.080 | 0.104 | 16.875 | 7.276 | 25.679 | 6.101 |
| LA6 | 1.571 | 0.745 | A3 | 51.712 | 43.991 | A17\*\*\* | 22.178 | 23.212 |
| 6.737 | 0.111 | 16.935 | 9.614 | 19.548 | 4.016 |

p-value 數字

**JcJt: japan\_cartoon跟japan\_true之間的ttest**

**UcUt: USA\_cartoon跟USA\_true之間的ttest**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Japan\_c | USA\_c |  | Japan\_t | USA\_t |  |  |  |
| **country** | Mean  (std) | Mean  (std) | p-value  (JU\_c) | Mean  (std) | Mean  (std) | p-value  (JU\_t) | p-value  (JcJt) | p-value  (UcUt) |
| LA2 | 0.384 | 0.408 | 0.17631 | 0.408 | 0.287 | 0.100 | 0.7463 | 2E-15 |
| 0.100 | 0.113 | 0.631 | 0.030 |
| LA8 | 1.306 | 0.539 | 0.321281 | 0.543 | 0.492 | 0.7014 | 0.3296 | 0.6127 |
| 6.708 | 0.135 | 0.826 | 0.799 |
| LA9 | 0.735 | 0.794 | 0.006147 | 0.822 | 0.644 | 0.1996 | 0.3296 | 3E-18 |
| 0.119 | 0.122 | 1.199 | 0.047 |
| LB3 | 0.118 | 0.205 | 3.29E-12 | 0.257 | 0.230 | 0.5321 | 0.0012 | 0.0818 |
| 0.062 | 0.074 | 0.360 | 0.102 |
| LA3 | 0.922 | 0.133 | 0.308521 | 0.135 | 0.204 | 0.4664 | 0.3125 | 0.4419 |
| 6.725 | 0.079 | 0.197 | 0.799 |
| LA10 | 0.351 | 0.387 | 0.041175 | 0.414 | 0.356 | 0.3800 | 0.3382 | 0.0154 |
| 0.080 | 0.104 | 0.569 | 0.030 |
| LB5 | 0.211 | 0.274 | 0.010346 | 0.256 | 0.239 | 0.7029 | 0.281 | 0.2193 |
| 0.119 | 0.173 | 0.346 | 0.167 |
| LB4 | 0.667 | 0.745 | 0.005843 | 0.745 | 0.615 | 0.3318 | 0.3318 | 3E-07 |
| 0.141 | 0.194 | 1.152 | 0.079 |
| LB2 | 0.815 | 0.847 | 0.256628 | 0.855 | 0.703 | 0.3217 | 0.7917 | 1E-06 |
| 0.128 | 0.214 | 1.316 | 0.123 |
| LB6 | 0.133 | 0.113 | 0.156734 | 0.084 | 0.085 | 0.9713 | 0.0064 | 0.0216 |
| 0.111 | 0.052 | 0.104 | 0.090 |
| LB1 | 0.849 | 0.743 | 0.003109 | 0.808 | 0.663 | 0.2820 | 0.7596 | 0.0115 |
| 0.171 | 0.252 | 1.154 | 0.101 |
| LA1 | 0.275 | 0.212 | 0.00029 | 0.446 | 0.356 | 0.4918 | 0.1912 | 2E-19 |
| 0.096 | 0.110 | 1.126 | 0.047 |
| LA5 | 0.650 | 0.613 | 0.017578 | 0.700 | 0.644 | 0.2514 | 0.3109 | 0.0157 |
| 0.080 | 0.104 | 0.419 | 0.030 |
| LA6 | 1.571 | 0.745 | 0.289706 | 0.786 | 0.848 | 0.5182 | 0.3146 | 0.2713 |
| 6.737 | 0.111 | 0.199 | 0.802 |
| LA7 | 1.000 | 1.000 | 0 | 1.000 | 1.000 | 0 | 0 | 0 |
| 0.000 | 0.000 | 0.000 | 0.000 |
| LA11 | 0.169 | 0.149 | 0.089618 | 0.066 | 0.054 | 0.2876 | 4E-12 | 3E-21 |
| 0.077 | 0.072 | 0.091 | 0.015 |
| LA4 | 0.979 | 0.256 | 0.350967 | 0.280 | 0.331 | 0.5970 | 0.3676 | 0.3923 |
| 6.690 | 0.110 | 0.374 | 0.745 |
| LA12 | 0.033 | 0.093 | 0.216714 | 0.050 | 0.040 | 0.2355 | 0.0561 | 0.2706 |
| 0.016 | 0.417 | 0.073 | 0.008 |
| LB7 | 0.241 | 0.257 | 0.189947 | 0.235 | 0.203 | 0.4157 | 0.8805 | 2E-07 |
| 0.065 | 0.082 | 0.339 | 0.025 |
| R1 | 0.022 | 0.043 | 1.53E-10 | 0.164 | 0.034 | 0.3105 | 0.269 | 0.0076 |
| 0.013 | 0.022 | 1.107 | 0.017 |
| R2 | 0.250 | 0.298 | 0.001309 | 0.987 | 0.196 | 0.3109 | 0.3445 | 2E-14 |
| 0.079 | 0.100 | 6.735 | 0.028 |
| R3 | 0.075 | 0.095 | 0.003317 | 0.333 | 0.074 | 0.3067 | 0.307 | 0.0006 |
| 0.036 | 0.048 | 2.183 | 0.018 |
| R4 | 0.780 | 0.430 | 0.193518 | 1.803 | 0.395 | 0.3210 | 0.4778 | 0.3935 |
| 2.311 | 0.183 | 12.244 | 0.299 |
| R5 | 0.406 | 0.424 | 0.227645 | 0.432 | 0.350 | 0.2857 | 0.7359 | 1E-06 |
| 0.062 | 0.107 | 0.656 | 0.062 |
| R6 | 0.017 | 0.016 | 0.450014 | 0.016 | 0.004 | 0.3164 | 0.9352 | 1E-14 |
| 0.013 | 0.012 | 0.106 | 0.001 |
| A1 | 80.567 | 72.956 | 2.55E-05 | 69.655 | 64.834 | 3.1E-09 | 2E-12 | 3E-09 |
| 12.010 | 9.255 | 2.579 | 6.096 |
| A2 | 88.063 | 87.058 | 0.649753 | 91.106 | 89.169 | 0.2134 | 0.07 | 0.3214 |
| 9.015 | 16.875 | 11.281 | 7.276 |
| A3 | 47.721 | 51.712 | 0.080132 | 50.625 | 43.991 | 0.0003 | 0.1118 | 0.0008 |
| 9.898 | 16.935 | 12.212 | 9.614 |
| A4 | 134.433 | 127.486 | 0.104601 | 137.240 | 135.750 | 0.4839 | 0.3462 | 0.0275 |
| 23.449 | 28.415 | 10.587 | 15.041 |
| A5 | 144.066 | 153.260 | 0.034852 | 142.796 | 150.906 | 0.0014 | 0.7477 | 0.4423 |
| 28.418 | 24.291 | 18.910 | 10.474 |
| A6 | 19.963 | 14.521 | 0.120767 | 18.710 | 14.615 | 0.0012 | 0.714 | 0.948 |
| 28.011 | 11.292 | 9.399 | 5.189 |
| A7 | 149.746 | 150.289 | 0.746845 | 144.081 | 145.348 | 0.1796 | 2E-06 | 0.0017 |
| 7.261 | 12.570 | 6.643 | 4.699 |
| A8 | 31.756 | 34.923 | 0.030661 | 35.979 | 34.966 | 0.2714 | 0.0004 | 0.9726 |
| 7.893 | 9.780 | 6.361 | 4.759 |
| A9 | 133.888 | 131.823 | 0.396426 | 136.683 | 135.083 | 0.5066 | 0.2093 | 0.212 |
| 11.191 | 17.804 | 15.595 | 13.793 |
| A10 | 45.238 | 51.905 | 0.001347 | 50.350 | 48.692 | 0.3380 | 0.0123 | 0.0686 |
| 10.961 | 13.859 | 13.601 | 6.161 |
| A11 | 50.884 | 57.286 | 0.001056 | 56.519 | 54.308 | 0.2827 | 0.0102 | 0.0972 |
| 10.370 | 12.953 | 15.633 | 8.426 |
| A12 | 90.006 | 87.246 | 0.167033 | 98.418 | 98.096 | 0.6875 | 2E-08 | 3E-10 |
| 11.027 | 13.214 | 5.401 | 4.305 |
| A13 | 72.217 | 65.383 | 0.001938 | 70.310 | 63.512 | 2.7E-05 | 0.2785 | 0.3556 |
| 12.169 | 14.268 | 9.076 | 10.115 |
| A14 | 36.956 | 26.833 | 0.001589 | 44.872 | 51.530 | 6.8E-07 | 0.0027 | 1E-21 |
| 20.871 | 17.514 | 8.299 | 7.380 |
| A15 | 15.100 | 19.533 | 0.00505 | 20.426 | 19.627 | 0.2627 | 2E-05 | 0.9385 |
| 9.209 | 9.853 | 4.879 | 3.755 |
| A16 | 113.961 | 123.066 | 0.032765 | 107.930 | 102.749 | 0.0009 | 0.0698 | 5E-10 |
| 26.063 | 25.679 | 11.772 | 6.101 |
| A17 | 16.253 | 22.178 | 0.021464 | 25.408 | 23.212 | 0.0670 | 7E-08 | 0.6545 |
| 10.259 | 19.548 | 9.495 | 4.016 |

整理p-value

Data :raw\_F\_statistics\_true(.xlsx)

**JcJt: japan\_cartoon跟japan\_true之間的ttest**

**UcUt: USA\_cartoon跟USA\_true之間的ttest**

|  |  |  |  |
| --- | --- | --- | --- |
| Features | Length | Angle | Area |
| JU\_c | LA9\*\* LB3\*\*\* LA10\* LB5\*  LB4\*\* LB1\*\* LA1\*\* LA5\* | R1\*\*\* R2\*\* R3\*\* | A1\*\*\* A5\* A8\* A10\*\* A11\*\* A13\*\* A14\*\* A15\*\* A16\* A17\* |
| JU\_t |  |  | A1\*\*\* A3\*\*\* A5\*\* A5\*\* A6\*\* A13\*\*\* A14\*\*\* A16\*\*\* |
| Jt\_Jc | LB3\*\* LB6\*\* LA11\*\*\* |  | A1\*\*\*A7\*\*\* A8\*\*\* A10\* A11\* A12\*\*\* A14\*\* A15\*\*\* A17\*\*\* |
| Ut\_Uc | LA2\*\*\* LA9\*\*\* LA10\* LA10\* LB4\*\*\* LB2\*\*\* LB6\* LB1\* LA1\*\*\* LA5\* LB7\*\*\* | R1\* R2\*\*\* R3\*\* R5\*\*\* R6\*\*\* | A1\*\*\* A3\*\*\* A4\* A7\*\* A7\*\* A14\*\*\* A16\*\*\* |

Results:

參數統計與檢定

依照國別所作的敘述統計與檢定，分別列如Table-, Table-, Table-.

漫畫人臉以國別而言，美國人物比日本人物長度參數較長的包含LA2, LA8, LA9, LB3, LA10, LB5, LB4, LB2, LA6, LA12, LB7角度與面積較大的包含R1, R2, R3, R5, A3, A5, A10, A11, A15, A17;美國人物比日本人物長度參數較短的參數有LA3, LB6, LB1, LA1, LA5 , LA11, LA4,角度與面積較小的包含 R4 , R6, A1 , A2, A4, A6, A7, A8, A9 , A12, A13, A14, A16;

真人人臉以國別而言，美國人物比日本人物長度參數較長的包含LA3, LB6, LA6, LA4角度與面積較大的包含R3, R4, A5, A7, A14; 美國人物比日本人物長度參數較短的參數有 LA2 , LA8, LA9, LB3, LA10, LB5, LB4, LB2, LB1, LA1, LA5, LA11, LA12, LB7角度與面積較小的包含R1, R2, R5, R6, A1, A2, A3, A4, A6, A8, A9, A10, A11, A12, A13, A15, A16, A17;

日本以漫畫和真人來比較時，真人比漫畫人物長度參數較長的包含LA2,LA9, LA10, LB5, LB4, LB2, LA1, LA5, LA12角度與面積較大的包含R2, R3, R4, R5, A2, A3 ,A4, A8, A9, A10, A11, A12, A15, A17;

真人比漫畫人物長度參數較短的參數有LA8, LB3, LA3, LB6, LB1, LA6, LA11, LA4, LB7角度與面積較小的包含R1, R6, A1, A5, A6, A7, A13, A14, A16;

美國以漫畫和真人來比較時，真人比漫畫人物長度參數較長的包含LA2, LA9, LB3, LA10, LB5, LB4, LB2, LA4,

角度與面積較大的包含R6, A2, A4, A6, A8, A9, A12, A14, A15, A17; 真人比漫畫人物長度參數較短的參數有 LA8, LA3, LB6, LB1, LA1, LA5, LA6, LA11, LA12, LB7,角度與面積較小的包含R1, R2, R3, R4, R5, A1, A3, A5, A7, A10, A11, A13, A16;

Table-3,S1b.R [np=30, repeat 1000 times] 1/20

DT

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Features | train\_acc | sen | spe | test\_acc | sen | spe |
|  | ALL=L+R+A | 96.15833 | 96.75583 | 95.51456 | 74.83333 | 78.56429 | 71.57820 |
|  |  | 1.400933 | 2.197750 | 2.638743 | 7.222222 | 12.301052 | 12.612403 |
|  | L | 95.42500 | 95.49524 | 95.35318 | 71.50000 | 69.99230 | 73.13980 |
|  |  | 2.777778 | 3.634127 | 3.605272 | 6.595240 | 11.022892 | 11.640192 |
|  | R | 93.23333 | 93.59130 | 92.86187 | 60.30000 | 62.27543 | 58.56586 |
|  |  | 1.590340 | 3.090964 | 2.784494 | 8.646895 | 13.319676 | 13.844857 |
|  | A | 95.87500 | 96.18465 | 95.53263 | 76.50000 | 77.27665 | 76.03567 |
|  |  | 1.126005 | 1.966357 | 2.065558 | 6.806200 | 10.212394 | 11.777528 |
|  | L+R | 95.55000 | 95.84720 | 95.21829 | 70.63333 | 69.60973 | 71.98357 |
|  |  | 1.494566 | 2.366254 | 3.138125 | 7.227193 | 12.996935 | 11.026700 |
|  | L+A | 96.00000 | 96.45674 | 95.53442 | 75.63333 | 75.62966 | 75.69179 |
|  |  | 1.498222 | 2.396832 | 2.583402 | 7.722676 | 11.783649 | 11.200884 |
|  | R+A | 96.45000 | 96.90705 | 95.96089 | 75.60000 | 79.88503 | 71.52087 |
|  |  | 1.434210 | 2.013460 | 2.353502 | 7.667033 | 10.917874 | 12.114589 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | single F1 |  |  |  |  |  |  |
|  | 1 | train\_acc | sen | spe | test\_acc | sen | spe |
| LA2 | 2 | 89.75833 | 91.84355 | 87.60554 | 76.96667 | 78.66559 | 75.70746 |
|  |  | 1.563719 | 2.570689 | 2.926229 | 6.44575 | 9.7911 | 10.50357 |
| LA8 | 3 | 88.08333 | 90.44743 | 85.67918 | 70 | 75.35913 | 65.31686 |
|  |  | 1.305582 | 3.016795 | 3.771718 | 7.324451 | 12.4565 | 11.18035 |
| LA9 | 4 | 87.99167 | 89.12979 | 86.76771 | 62.5 | 60.97569 | 65.17969 |
|  |  | 1.637347 | 3.208258 | 3.628044 | 8.059473 | 13.81031 | 12.35144 |
| LB3 | 5 | 85.95 | 84.92597 | 86.89552 | 56.1 | 55.58791 | 57.42803 |
|  |  | 1.93185 | 3.503227 | 3.67277 | 8.838938 | 14.41733 | 14.18747 |
| LA3 | 6 | 83.483 | 81.385 | 85.398 | 48.633 | 47.274 | 51.065 |
|  |  | 1.647 | 4.306 | 3.753 | 8.262 | 15.168 | 13.529 |
| LA10 | 7 | 87.075 | 86.839 | 87.223 | 52.667 | 51.861 | 54.438 |
|  |  | 1.537 | 4.237 | 3.686 | 8.736 | 14.718 | 14.153 |
| LB5 | 8 | 82.833 | 80.618 | 84.978 | 49.600 | 48.696 | 50.809 |
|  |  | 1.749 | 4.034 | 3.492 | 7.875 | 13.011 | 14.923 |
| LB4 | 9 | 85.767 | 87.446 | 84.010 | 52.133 | 53.215 | 51.739 |
|  |  | 1.787 | 3.437 | 3.876 | 8.308 | 13.685 | 14.094 |
| LB2 | 10 | 81.008 | 81.462 | 80.419 | 42.833 | 40.865 | 45.888 |
|  |  | 1.590 | 5.186 | 4.470 | 7.689 | 13.888 | 13.016 |
| LB6 | 11 | 84.867 | 85.005 | 84.722 | 49.733 | 50.129 | 49.441 |
|  |  | 1.728 | 4.116 | 4.281 | 7.809 | 13.637 | 13.628 |
| LB1 | 12 | 85.992 | 85.752 | 86.171 | 55.500 | 52.640 | 58.653 |
|  |  | 1.875 | 4.505 | 3.987 | 7.990 | 12.877 | 12.239 |
| LA1 | 13 | 87.608 | 88.192 | 86.993 | 60.467 | 59.000 | 62.667 |
|  |  | 2.002 | 3.563 | 3.884 | 8.288 | 12.386 | 14.197 |
| LA5 | 14 | 87.108 | 85.867 | 88.264 | 54.500 | 55.871 | 53.385 |
|  |  | 1.710 | 3.268 | 3.325 | 8.598 | 13.549 | 13.590 |
| LA6 | 15 | 85.367 | 88.464 | 82.187 | 57.300 | 59.155 | 56.014 |
|  |  | 1.462 | 3.417 | 3.472 | 8.693 | 14.865 | 13.137 |
| LA7 | 16 LA7 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
|  |  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LA11 | 17 | 84.417 | 86.534 | 82.158 | 48.200 | 48.782 | 48.489 |
|  |  | 1.652 | 4.728 | 4.720 | 8.280 | 13.743 | 14.550 |
| LA4 | 18 | 85.217 | 87.427 | 82.846 | 55.533 | 58.780 | 53.742 |
|  |  | 1.787 | 4.067 | 4.031 | 8.099 | 13.915 | 14.614 |
| LA12 | 19 | 85.533 | 85.889 | 85.099 | 54.367 | 53.899 | 55.493 |
|  |  | 1.560 | 3.773 | 3.937 | 8.036 | 12.941 | 13.214 |
| LB7 | 20 | 83.900 | 85.416 | 82.343 | 53.933 | 57.573 | 50.992 |
|  |  | 1.716 | 3.598 | 3.790 | 8.638 | 15.747 | 12.214 |
| R1 | 21 | 88.283 | 86.710 | 89.816 | 65.400 | 64.681 | 66.726 |
|  |  | 1.740 | 3.597 | 3.690 | 7.182 | 11.432 | 13.885 |
| R2 | 22 | 85.242 | 84.621 | 85.820 | 52.033 | 50.805 | 53.772 |
|  |  | 1.689 | 3.789 | 3.851 | 8.487 | 14.709 | 14.110 |
| R3 | 23 | 84.492 | 82.430 | 86.511 | 50.633 | 51.627 | 50.527 |
|  |  | 1.953 | 3.794 | 4.005 | 8.405 | 14.451 | 13.777 |
| R4 | 24 | 85.908 | 84.477 | 87.295 | 53.433 | 54.478 | 53.164 |
|  |  | 1.816 | 4.242 | 3.187 | 7.572 | 14.589 | 13.394 |
| R5 | 25 | 80.883 | 80.302 | 81.356 | 44.633 | 42.820 | 46.885 |
|  |  | 1.784 | 4.368 | 4.463 | 7.755 | 13.152 | 13.778 |
| R6 | 26 | 83.558 | 82.193 | 84.798 | 52.833 | 55.451 | 51.211 |
|  |  | 1.842 | 4.109 | 4.179 | 9.644 | 13.936 | 13.694 |
| A1 | 27 | 89.958 | 89.623 | 90.269 | 73.600 | 73.918 | 73.677 |
|  |  | 1.476 | 2.923 | 2.890 | 6.043 | 12.134 | 11.388 |
| A2 | 28 | 87.117 | 87.381 | 86.767 | 60.200 | 58.711 | 62.522 |
|  |  | 1.418 | 2.988 | 3.274 | 8.299 | 13.778 | 12.836 |
| A3 | 29 | 84.333 | 85.102 | 83.544 | 62.100 | 64.909 | 59.562 |
|  |  | 1.580 | 3.858 | 4.074 | 7.794 | 12.821 | 12.501 |
| A4 | 30 | 85.267 | 84.181 | 86.347 | 53.267 | 55.707 | 51.580 |
|  |  | 1.708 | 3.303 | 3.703 | 9.368 | 12.778 | 13.590 |
| A5 | 31 | 86.858 | 88.924 | 84.717 | 58.567 | 60.509 | 57.318 |
|  |  | 1.796 | 3.788 | 4.348 | 7.860 | 12.839 | 13.664 |
| A6 | 32 | 86.475 | 86.468 | 86.447 | 56.200 | 55.779 | 56.804 |
|  |  | 1.772 | 3.833 | 3.343 | 8.261 | 12.593 | 12.770 |
| A7 | 33 | 83.792 | 84.656 | 82.815 | 46.533 | 43.902 | 50.130 |
|  |  | 1.825 | 4.040 | 3.876 | 7.231 | 13.734 | 13.615 |
| A8 | 34 | 86.892 | 87.050 | 86.664 | 52.400 | 52.830 | 53.029 |
|  |  | 1.666 | 3.643 | 3.085 | 8.027 | 13.227 | 14.146 |
| A9 | 35 | 85.483 | 83.070 | 87.784 | 52.400 | 51.921 | 53.259 |
|  |  | 1.851 | 4.137 | 3.633 | 9.200 | 12.977 | 14.140 |
| A10 | 36 | 86.508 | 85.772 | 87.210 | 54.267 | 55.593 | 53.421 |
|  |  | 1.583 | 3.529 | 3.423 | 7.858 | 13.131 | 13.776 |
| A11 | 37 | 85.092 | 83.075 | 86.972 | 49.333 | 49.962 | 49.012 |
|  |  | 1.891 | 4.462 | 3.533 | 8.026 | 12.647 | 13.123 |
| A12 | 38 | 85.100 | 84.869 | 85.197 | 49.000 | 51.659 | 47.926 |
|  |  | 1.797 | 3.881 | 3.603 | 7.864 | 14.535 | 12.960 |
| A13 | 39 | 90.283 | 89.323 | 91.172 | 60.967 | 57.463 | 65.323 |
|  |  | 1.471 | 2.954 | 2.962 | 8.114 | 15.264 | 14.339 |
| A14 | 40 | 86.633 | 87.302 | 85.886 | 61.467 | 63.358 | 60.441 |
|  |  | 1.539 | 4.219 | 3.613 | 8.059 | 13.922 | 13.386 |
| A15 | 41 | 84.583 | 86.096 | 83.018 | 50.033 | 50.840 | 50.294 |
|  |  | 1.630 | 4.300 | 4.287 | 8.213 | 15.065 | 10.992 |
| A16 | 42 | 84.742 | 84.487 | 84.965 | 57.067 | 55.638 | 58.635 |
|  |  | 1.883 | 3.968 | 3.615 | 7.702 | 13.070 | 12.960 |
| A17 | 43 | 86.358 | 86.078 | 86.569 | 52.167 | 54.831 | 50.024 |
|  |  | 1.834 | 3.960 | 3.397 | 7.733 | 13.291 | 14.147 |

Nose.index=c(1,2,5,21,27,30)

Eye.index=c(1,17,26)

Eyebrow.index=c(1,19,20,40,41,42,43)

Ear.index=c(1,11,29)

Mouth.index=c(1,6,18)

Face.index=c(1,3,4,7,10,12,13,14,15,22,24,25,28,35,36,37,38,39)

FaceL.index=c(1,15,13,4,10,12,7,14,3)

FaceR.index=c(1,24,22,25)

FaceA.index=c(1,28,36,35,37,38,39)

Chin.index=c(1,8,9,23,31,32,33,34)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features | train\_acc | sen | spe | test\_acc | sen | spe |
| *nose\_all*  5,21,27,30,2 | 93.583 | 95.193 | 91.931 | 77.200 | 79.090 | 75.513 |
|  | 1.542 | 2.482 | 2.845 | 6.926 | 10.864 | 11.038 |
| *eye\_all*  *17,26* | 88.750 | 87.470 | 89.929 | 50.167 | 50.536 | 50.122 |
|  | 1.822 | 4.097 | 3.889 | 8.663 | 13.371 | 13.464 |
| *eyebrow\_all*  *43,19,42,41,40,20* | 94.125 | 93.665 | 94.592 | 66.667 | 66.187 | 67.597 |
|  | 1.491 | 2.526 | 2.704 | 8.409 | 12.561 | 13.075 |
| *ear\_all*  *11,29* | 90.550 | 90.287 | 90.768 | 61.400 | 61.777 | 62.047 |
|  | 1.754 | 3.645 | 3.491 | 8.979 | 13.676 | 14.081 |
| *mouth\_all*  *18,6* | 89.308 | 89.069 | 89.516 | 52.867 | 51.951 | 54.433 |
|  | 1.721 | 3.280 | 3.288 | 7.756 | 14.239 | 13.663 |
| *faceL\_all*  15,13,4,10,12,7,  14,3 | 93.783 | 94.448 | 93.122 | 70.067 | 67.437 | 72.472 |
|  | 1.647 | 2.523 | 2.769 | 9.211 | 13.040 | 13.048 |
| *faceR\_all*  24,22,25 | 91.567 | 91.863 | 91.239 | 52.067 | 53.959 | 50.538 |
|  | 1.762 | 3.547 | 3.314 | 7.651 | 15.053 | 12.724 |
| *faceA\_all*  28,36,35,37,38,39 | 94.117 | 93.630 | 94.525 | 62.333 | 61.266 | 63.978 |
|  | 1.610 | 3.125 | 2.946 | 7.691 | 12.510 | 13.731 |
| *chin\_all*  *8,9,34,31,23,33,32* | 92.817 | 93.138 | 92.470 | 59.167 | 56.726 | 62.614 |
|  | 1.483 | 2.978 | 2.627 | 8.427 | 14.430 | 11.319 |

SVM

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Features | train\_acc | sen | spe | test\_acc | sen | spe |
|  | ALL=L+R+A | 85.325 | 99 | 70 | 47.2 | 41.435 | 65 |
|  |  | 22.018 | 10.000 | 46.057 | 7.708 | 43.510 | 47.937 |
|  | L | 87.425 | 88.147 | 86.629 | 76.900 | 76.557 | 77.686 |
|  |  | 2.850 | 3.571 | 3.898 | 7.584 | 12.413 | 10.533 |
|  | R | 71.650 | 86.664 | 55.982 | 60.200 | 77.627 | 45.093 |
|  |  | 9.963 | 10.300 | 20.635 | 7.607 | 15.877 | 17.995 |
|  | A | 99.992 | 99.982 | 100.000 | 74.033 | 65.823 | 84.869 |
|  |  | 0.083 | 0.175 | 0.000 | 7.629 | 14.946 | 13.535 |
|  | L+R | 88.692 | 88.559 | 88.758 | 79.633 | 79.470 | 80.208 |
|  |  | 2.579 | 3.369 | 3.094 | 6.715 | 11.062 | 9.279 |
|  | L+A | 88.583 | 100.000 | 76.000 | 48.633 | 32.249 | 75.000 |
|  |  | 20.423 | 0.000 | 42.923 | 7.013 | 39.708 | 43.519 |
|  | R+A | 100.000 | 100.000 | 100.000 | 74.000 | 69.088 | 82.582 |
|  |  | 0.000 | 0.000 | 0.000 | 9.617 | 19.934 | 16.032 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | single F1 |  |  |  |  |  |  |
|  | 1 | train\_acc | sen | spe | test\_acc | sen | spe |
| LA2 | 2 | 80.225 | 80.486 | 79.802 | 79.333 | 78.488 | 80.983 |
|  |  | 1.811 | 3.976 | 3.183 | 6.427 | 9.915 | 9.962 |
| LA8 | 3 | 78.308 | 80.277 | 76.181 | 75.500 | 79.122 | 72.678 |
|  |  | 1.937 | 2.885 | 4.262 | 7.452 | 9.988 | 11.978 |
| LA9 | 4 | 70.617 | 79.183 | 61.795 | 67.967 | 76.449 | 60.233 |
|  |  | 1.810 | 4.995 | 6.423 | 6.494 | 10.001 | 13.317 |
| LB3 | 5 | 54.858 | 57.856 | 49.598 | 44.500 | 54.411 | 43.534 |
|  |  | 3.080 | 35.887 | 34.616 | 7.452 | 36.138 | 35.779 |
| LA3 | 6 | 53.208 | 52.924 | 50.091 | 42.333 | 49.696 | 48.495 |
|  |  | 2.322 | 45.830 | 45.910 | 5.596 | 46.386 | 45.449 |
| LA10 | 7 | 56.783 | 51.979 | 59.465 | 47.800 | 47.176 | 56.631 |
|  |  | 4.248 | 31.300 | 29.578 | 9.323 | 31.575 | 29.699 |
| LB5 | 8 | 60.550 | 58.708 | 61.621 | 54.733 | 53.261 | 59.025 |
|  |  | 2.482 | 15.224 | 16.520 | 8.209 | 18.213 | 19.164 |
| LB4 | 9 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LB2 | 10 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LB6 | 11 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LB1 | 12 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA1 | 13 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA5 | 14 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA6 | 15 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA7 | 16 LA7 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA11 | 17 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA4 | 18 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LA12 | 19 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| LB7 | 20 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R1 | 21 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R2 | 22 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R3 | 23 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R4 | 24 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R5 | 25 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| R6 | 26 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A1 | 27 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A2 | 28 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A3 | 29 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A4 | 30 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A5 | 31 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A6 | 32 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A7 | 33 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A8 | 34 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A9 | 35 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A10 | 36 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A11 | 37 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A12 | 38 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A13 | 39 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A14 | 40 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A15 | 41 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A16 | 42 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| A17 | 43 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

SVM

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features | train\_acc | sen | spe | test\_acc | sen | spe |
| *nose\_all*  5,21,27,30,2 | 86.8 | 87.033 | 86.414 | 79.367 | 79.926 | 79.356 |
|  | 3.838 | 4.816 | 5.793 | 7.366 | 9.333 | 12.456 |
| *eye\_all*  *17,26* | 59.008 | 67.802 | 48.257 | 47.300 | 59.971 | 42.440 |
|  | 7.193 | 33.801 | 31.505 | 8.498 | 33.297 | 32.932 |
| *eyebrow\_all*  *43,19,42,41,40,20* | 91.175 | 90.062 | 92.270 | 73.300 | 74.443 | 72.697 |
|  | 5.627 | 5.738 | 6.418 | 7.749 | 10.734 | 12.250 |
| *ear\_all*  *11,29* | 74.533 | 75.261 | 73.525 | 68.067 | 70.981 | 65.857 |
|  | 2.093 | 5.724 | 6.310 | 7.030 | 11.874 | 10.836 |
| *mouth\_all*  *18,6* | 62.000 | 50.197 | 72.745 | 56.267 | 46.486 | 70.378 |
|  | 3.231 | 15.623 | 17.760 | 9.885 | 18.031 | 21.121 |
| *faceL\_all*  15,13,4,10,12,7,  14,3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| *faceR\_all*  24,22,25 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| *faceA\_all*  28,36,35,37,38,39 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| *chin\_all*  *8,9,34,31,23,33,32* |  |  |  |  |  |  |
|  |  |  |  |  |  |  |