Figure 1: “Car”. The sketch contains 179 input strokes and 975 initial regions. 22 stroke gestalts and 15 perceptual regions are obtained after simplification. The whole simplification process takes 1.6 minutes.

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Figure 2: “Lion”. The input sketch is re-traced from [Barla et al. 2005], and contains 106 input strokes and 72 initial regions. 36 stroke gestalts and 7 perceptual regions are obtained after simplification. The whole simplification process takes 0.7 minutes.
Figure 3: “Woman”. The input sketch is re-traced from [Barla et al. 2005], and contains 174 input strokes and 126 initial regions. 79 stroke gestalts and 41 perceptual regions are obtained after simplification. The whole simplification process takes 1.3 minutes.
Figure 4: “Gandi”. The input sketch is re-traced from [Shesh and Chen 2008], and contains 301 input strokes and 341 initial regions. 27 stroke gestalts and 18 perceptual regions are obtained after simplification. The whole simplification process takes 5.0 minutes.
Figure 5: “Fruit”. The input sketch is re-traced from [Pusch et al. 2007], and contains 199 input strokes and 160 initial regions. 18 stroke gestalts and 17 perceptual regions are obtained after simplification. The whole simplification process takes 3.1 minutes. But since Pusch et al. only presented the manually traced result of the this input sketch and did not present their simplified result, so we cannot compare their result with ours.
Figure 6: “Ring”. The input sketch contains 303 input strokes and 1499 initial regions. 41 stroke gestalts and 42 perceptual regions are obtained after simplification. The whole simplification process takes 11.1 minutes.
Figure 7: “Mouse”. The input sketch is re-traced from [Orbay and Kara 2011], and contains 67 input strokes and 83 initial regions. 14 stroke gestalts and 11 perceptual regions are obtained after simplification. The whole simplification process takes 0.9 minutes.
Figure 8: “Geometry”. The input sketch is re-traced from [Orbay and Kara 2011], and contains 89 input strokes and 60 initial regions. 28 stroke gestalts and 11 perceptual regions are obtained after simplification. The whole simplification process takes 1.6 minutes.
Figure 9: “Building”. The input sketch contains 127 input strokes and 78 initial regions. 59 stroke gestalts and 21 perceptual regions are obtained after simplification. The whole simplification process takes 0.5 minutes.
Figure 10: “Fairy”. The input sketch contains 350 input strokes and 43 initial regions. 53 stroke gestalts and 19 perceptual regions are obtained after simplification. The whole simplification process takes 0.5 minutes.
Figure 11: “Horse”. The input sketch is re-traced from [Fu et al. 2011], and contains 150 input strokes and 66 initial regions. 83 stroke gestalts and 35 perceptual regions are obtained after simplification. The whole simplification process takes 1.2 minutes. Note that the grouped strokes in [Fu et al. 2011] are not used for the application of simplification.
Figure 12: “Duck”.
Figure 13: “Grandpa”.
Figure 14: “Girl”.
Figure 15: “House”. 