**Title.** Linking shape conspicuous asymmetry with shape covariation patterns and performance in the insect head and mandibles.

**Running head.** Conspicuous asymmetry, modularity, integration and performance.

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Data availability. Landmark data is available as TPS files, as well as other raw data and R code on Github, at https://github.com/sginot/asym-real. Original 3D reconstructions of grasshopper heads are available on demand from the corresponding author, or at the Bonn Net repository.