Quantifying Writer Variance Through Rainbow Triangle Graph Decomposition

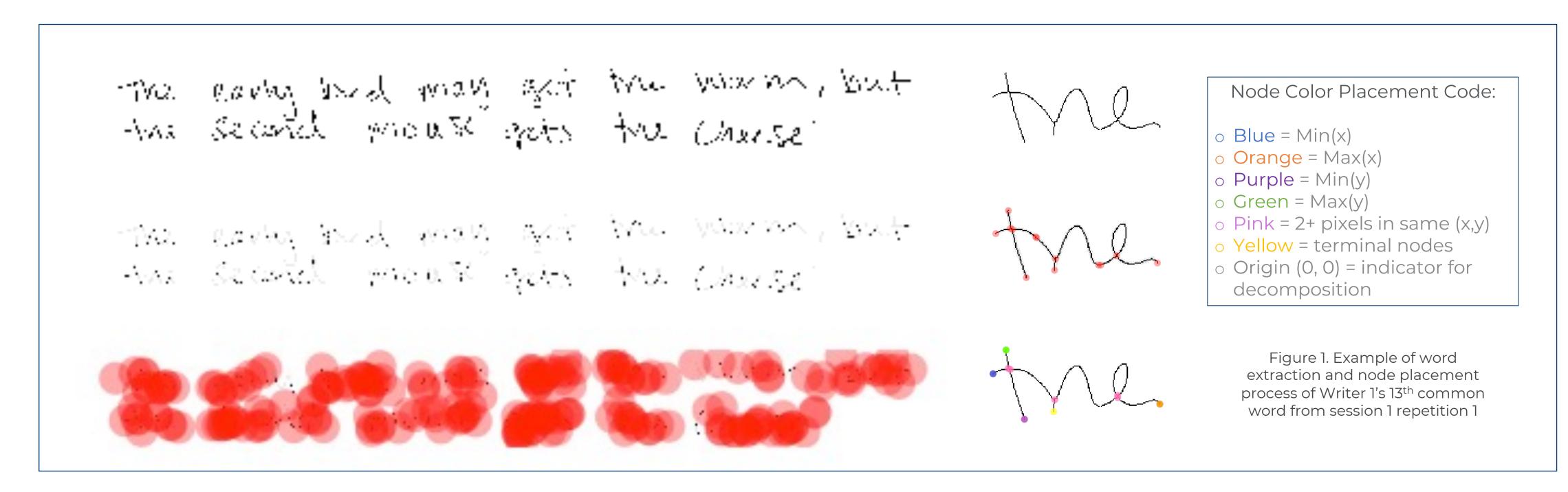


Alexandra Arabio, Alicia Carriquiry, Danica Ommen | Iowa State University

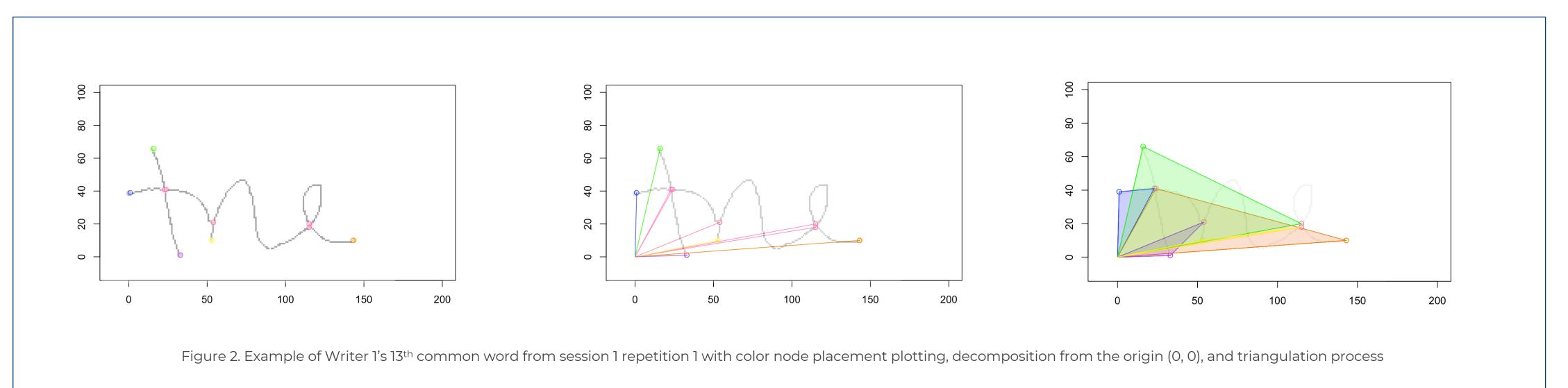
Principle: No two individual can produce the same writing, nor can an individual exactly reproduce their own writing **Goal:** Assess and quantify the natural variation produced by a distinct writer

Project Background

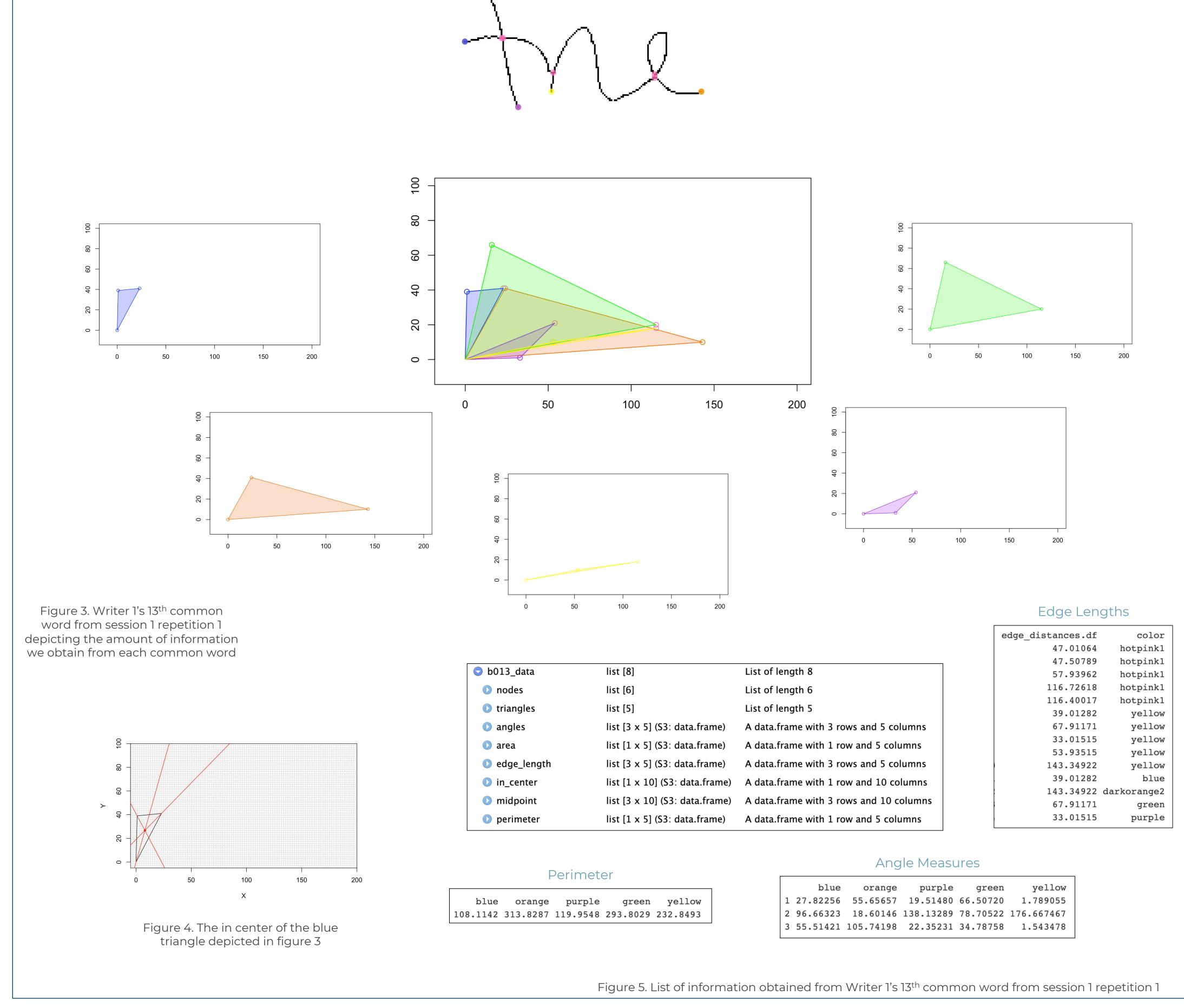
- Common phrase writing exemplar from the CSAFE online, open-source repository (provides 27 the repetitions per writer)
- Indicate important landmark features
- Decompose from the landmarks to build framework to construct numerical variables to quantify the shape of the word



Rainbow Triangulation Method



Feature Extraction & Data



This work was funded (or partially funded) by the Center for Statistics and Applications in Forensic Evidence (CSAFE) through Cooperative Agreements 70NANB20H019 between NIST and Inviersity of Virginia, West Virginia