# COLLAGES AND PATTERNS GENERATED BY HYPEREDGE REPLACEMENT

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**Abstract:** *In this paper, we study some aspects related to collage grammars. A collage consists essentially of a set of parts being geometric objects and a set of hyperedges being subjects of further replacement. A set of collages represents a set of geometric patterns where each pattern is just the union of the parts of a collage. By overlay of the represented patterns, a set of collages yields fractal pattern.*

**Keywords:** *collage, collage grammar, collage language, pattern, pattern language.*

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