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## **Real sets induced by endomorphisms of the free monoid**

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Given an endomorphism of the free monoid, more precisely, a primitive substitution, we can associate to it a family of compact subsets of the real line. This setting arose as a side-product of a latter research and has not been studied explicitly yet. We want to present the exact definition and some basic properties of these sets. Afterwards we want to outline several interesting effects and open questions that emerged in this context.