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Submission author: TK (Tayla) Orsmond

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## 1 Research Component

- 1. A Turing machine is a hypothetical machine proposed by Alam Turing that, given enough time and memory, can solve any problems so long as that problem may be expressed in code instructions and has an asswer that can be calculated [1]. Thus, a programming language is considered "Turing Complete" if it can imitate the Turing Machine, i.e., can solve any given problem that could be solved by a Turing Machine [1].
- 2. An esotric programming language (Esolong) is a programming language designed to test the limits of programming in a wy that is unconventional, interesting, and entertaining [4]. Esolangs are technically Turingting (5) and the properties of efficient or effective to solving problems like traditional programming language. In stead, Esolangs are designed to explore programming language design in a unique way and provide a proof of concept to some of the theory behind programming language design and provide a proof of concept to some of the theory behind programming language design and provide a proof of concept to some of the theory behind programming language design and programming in general [4].
- 3. It is true that ecology are typically created as parodies to traditional programming languages and concepts, with a fair portion of these language being created as jobses or as side projects and all of them in a sense "paroding" traditional programming language design principles by making use of uncorrentional syntax, data and instruction representations, as we assumed and fidtledni interpretation / compliation of the language (for example, Bethings, which can be read in 4 directions) [4]. Ecologys are in name "context" and aren't meant to be taken seriously on be used for typical projects / software (many of them have very limited) practical and practical. Thus, it can be argued that these languages are simply mean plication.) Thus, it can be argued that these languages are simply mean.

However, these languages are also important studies in the limits of programming and programming language design because they provide an un conventional and unique viewpoint for programmers on what is possible for computers to interpret, and highlights some of the important programming

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