

Department of Computer Science COS333 - Programming Languages

# Research Questions Report

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## 1 Esoteric programming language

### Question 1

#### 1.1 Explanation

An esoteric programming language (or esolang) is a computer programming language that is not designed to offer an efficient or elegant solution to computational problems but to explore the basic ideas behind computation theory or have fun and create a completely unique programming language. [1] [2]

## 2 Categories

Question 2

- 2.1 Funges
- 2.1.1 Advantages
- 2.1.2 Disadvantages
- 2.2 Stateful encoding lamguages
- 2.2.1 Advantages
- 2.2.2 Disadvantages

#### 3 Chosen languages

Question 3

- 3.1 Chef
- 3.1.1 Description
- 3.1.2 Code Snippet
- 3.2 Language 2
- 3.2.1 Description
- 3.2.2 Code Snippet

### 4 Design by Contract

Question 4

- 4.1 Explanation
- 4.2 Language Support
  - Effiel [3]
  - Racket [4]

## References

- [1] Donald Knuth. Knuth: Computers and typesetting.
- [2] Donald Knuth. Knuth: Computers and typesetting.
- [3] James McGovern. Design by contract.
- [4] the Racket Team. Contracts.