

A Report on the XXXX Programming Language

Section 1: INTRODUCTION

- 1.1 What was the goal of the project? Why you choose this language?
- 1.2 How does the report achieve this goal? You can give a brief overview of the sections that comprise the report.

Section 2: HISTORY

- 2.1 Introduction – What is the goal of this section?
- 2.2 Creation
 - Who created the language?
 - Why was the language created?
 - What application domains is the language good for? Why?
- 3.3 Lifetime
 - What has happened to the language since it was created?
 - Rate the popularity of the language, then, now, and in the future. What is your evidence for this rating?

Section 3: BASIC FEATURES

- 3.1 Introduction – What is the goal of this section?
- 3.2 Names, scopes and bindings
- 3.3 Data Types
- 3.4 Control Flow
- 3.5 Subprograms
- 3.6 Paradigms supported
- 3.7 Other

Section 4: DISTINCTIVE LANGUAGE FEATURES

Each language is designed with one or more design objectives. The section should describe the language features incorporated to realize the design objectives, which are often the features that make the language unique.

Section 5: TUTORIAL

- 5.1 Introduction – What is the goal of this section?
- 5.2 How do you create a basic hello world program? Include a description of how you use the Programming environment to edit, build, and run your program.
- 5.3 – 4.X 2 or 3 major features, one for each section.
- 5.X Resources – What books/manuals/web sites should I go to for further information about the language? Make sure you cite the material here and include an entry in the bibliography.

Section 6: EVALUATION

6.1 Introduction – What is the goal of this section?

Sebesta has a list of language evaluation criteria in chapter one. The criteria are grouped into three broad categories: readability, writability, and reliability.

Evaluate the language with respect to the following characteristics:

6.2 Simplicity/orthogonality

6.3 Control Structures

6.4 Data types

6.5 Syntax Design

6.6 Support for abstraction

6.7 Expressivity

6.8 Type checking

6.9 Conclusion – what is your overall feeling about the language?

REFERENCES

Use references to strengthen your report. Don't make a bold statement without backup! Since many of you are using the web as a major source of information, pay particular attention to how web references are documented.

Refer to this link for the format of entries in the reference section:

http://owl.english.purdue.edu/handouts/research/r_apa.html

Use this format for citing a reference in the main text of the report:

... The language evaluation characteristics were taken from [Sebesta, 2015]....

This citation would link the reader to the following entry in the references section of the report:

Sebesta, R. (2015). *Concepts of Programming Languages, Seventh Edition*. Boston, MA: Addison-Wesley.