

Note on the Elements of Differentiable Programming

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1. Introduction

This note is based on the book *The Elements of Differentiable Programming* [1].

Def 1 **Differentiable programming**:

Differentiable programming is a programming paradigm in which complex computer programs (including those with control flows and data structures) can be differentiated end-to-end automatically, enabling gradient-based optimization of parameters in the program.

Bibliography

[1] M. Blondel and V. Roulet, *The Elements of Differentiable Programming*, (2024).