

Sample C++ Code in LaTeX

Your Name

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Abstract

This document demonstrates how to include C++ code in LaTeX using the `listings` package.

1 Introduction

Here is an example of how to include C++ code in your LaTeX documents, which might be particularly useful for technical or programming related documents.

2 Sample Code

Below is a sample of C++ code that prints "Hello, World!" to the console.

```
1 vector<double> addition(vector<double> v1, vector<double> v2){
2
3     //variables
4     vector<double> result(v1.size());
5
6     //verification de la taille des vecteurs
7     if(v1.size() != v2.size()){
8         throw invalid_argument("Les vecteurs ne sont pas de meme
9         taille");
10    }
11
12    //addition des vecteurs
13    for (size_t i = 0; i < v1.size(); i++)
14    {
15        result[i]= v1[i] + v2[i];
16    }
17    return result;
18 }
```

Listing 1: Simple C++ Hello World Program