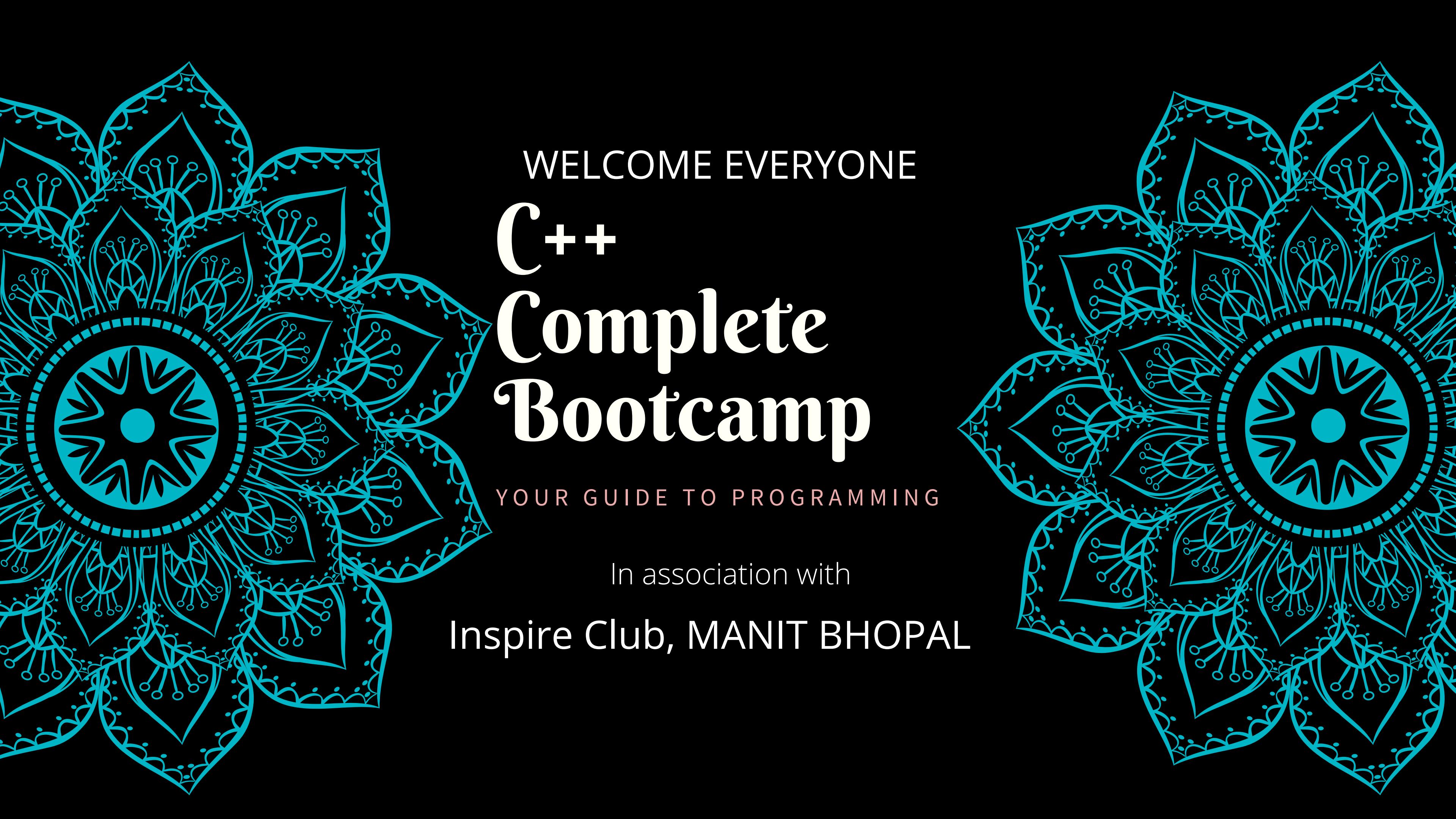


Hello CPPBuddies



WELCOME EVERYONE

C++

Complete Bootcamp

YOUR GUIDE TO PROGRAMMING

In association with

Inspire Club, MANIT BHOPAL

DAY ZERO

21st June, 2021

Monday

**WELCOME TO
ORIENTATION**

LET'S GO

**Are you
excited?**

INSPIRE CLUB, MANIT BHOPAL

D
BRINGS

C++

Complete
Bootcamp



Learn How To Apply Problem Solving Skills

Inspire Club established in **2008** by MANIT Bhopal Alumini

We believe in competence with character



Inspire Club in many colleges
like in MANIT ,IISER,SATI,IIT
INDORE,IIT KANPUR,IIT IIT DELHI





We organise youth programs
in
various colleges
in
Bhopal.

Last year we have organised
GLC Gita Leadership Contest
in
80 colleges
in
Bhopal

Agenda

COURSE
DETAILS

YOUR
THE
BENEFITS

FEATURES
OF C++

BENEFITS
APPLICATIONS

FAQ
Q&A

STUDY
TECHNIQUES

ABOUT
ME

SYSTEM
REQUIREMENTS

WHY C++

INSPIRE CLUB, MANIT BHOPAL

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C++

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Bootcamp



Learn How To Apply Problem Solving Skills

Hello CPPBuddies

Day 01

Welcome
To
C++ COMPLETE BOOTCAMP

Your Guide To A Solid Foundataion in C++

Let us begin

C++ Bootcamp: What You Need to Know

UNDERSTAND HOW THE NEW COURSE WORKS

Live Sessions

Quizzes & Assignments

Slides & Notes

Recorded Sessions

Practice Problems

Doubt Solving Sessions

C++ Defined

- C++ is a general-purpose programming language
- Extension of the C programming language
- Created by Bjarne Stroustrup at Bell Labs
- Was called "C with Classes" and was renamed C++ in 1983
- Object Oriented Programming Language
- Very very fast & efficient
- Widely used in software development



Before C++ Language

Procedural Programming

Complex Software Development is Hard

Less Ease of Maintenance

With C++ Language

Object Oriented Programming

Complex Software Development is Easy

More Ease of Maintenance

C++ Versions

The programming language was created, designed & developed by a [Danish Computer Scientist](#) -

Bjarne Stroustrup at [Bell Telephone Laboratories](#)
(now known as Nokia Bell Labs) in New Jersey

C++ 98



October 1998

- The first version
- Basic language features
- Basic headers

C++ 11



August 2011

- Lambda Expressions
- Automatic Type Deduction
- Uniform Initialization

C++ 14



August 2014

- quoted strings
- binary integer literals
- variable templates

C++ 17



December 2017

- inline variables
- hexadecimal floating point literals
- fold expressions

C++ 23



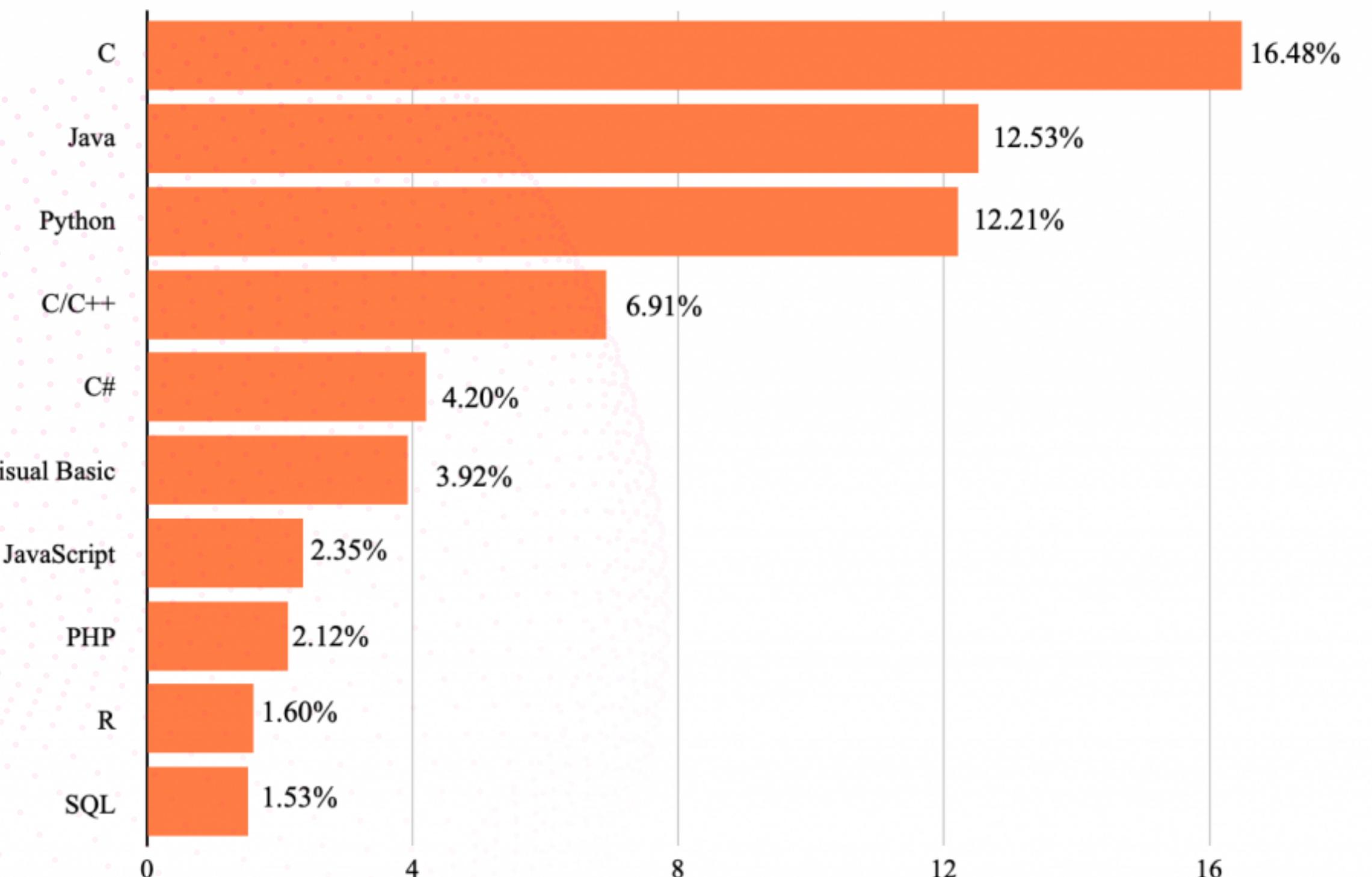
Current

- Duplicate Attributes
- Trimming whitespaces before line splicing

C++ Language Adoption in the World

AS OF NOW IN 2021

C++ is the 4th most popular language in the world, according to the TIOBE index





Why C++ Is Better Than JAVA

SPEED AND PERFORMANCE

Java is a favorite among developers, but the code must first be interpreted during run-time, so it's also slower.

C++ is compiled to binaries, so it runs immediately and therefore faster than Java programs.

The Benefits of C++ Language



Object-oriented: This means that the focus is on “objects” and manipulations around these objects.

Rich library: Through C++ Standard Template Library (STL) many functions are available

Speed: C++ is the preferred choice when latency is a critical metric.

Compiled: A C++ code has to be first compiled into low-level code and then executed

Pointers: C++ also supports pointers which are widely used

The Applications of C++ Language

Operating Systems

Browsers

Libraries

Graphics

Embedded Systems

Cloud/Distributed Systems

Databases

