

C Socket Programming Tutorial Writing Client Server

CorbaScript

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CorbaScript is an object-oriented scripting language designed to support interaction with Common Object Request Broker Architecture (CORBA) objects. It was developed to provide a flexible scripting environment for both client- and server-side CORBA application development, leveraging dynamic invocation and interface reflection capabilities.

CorbaScript is a dynamic, interpreted language whose syntax resembles that of C++ and Java. However, it integrates several design elements from dynamic languages such as Python and Smalltalk. Like those languages, CorbaScript treats all values as objects and supports dynamic type checking at runtime. Source code is translated into pseudocode executed by a dedicated Virtual Object-Oriented Machine that includes a simple reference-counting garbage collector...

Single-page application

browsers which historically had varying behavior. WebSockets are a bidirectional real-time client-server

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communication technology that are part of the HTML

A single-page application (SPA) is a web application or website that interacts with the user by dynamically rewriting the current web page with new data from the web server, instead of the default method of loading entire new pages. The goal is faster transitions that make the website feel more like a native app.

In a SPA, a page refresh never occurs; instead, all necessary HTML, JavaScript, and CSS code is either retrieved by the browser with a single page load, or the appropriate resources are dynamically loaded and added to the page as necessary, usually in response to user actions.

Robotics simulator

produced. Writing code for a simulation is also easier than writing code for a physical robot. While the move toward virtual simulations for programming robots

A robotics simulator is a simulator used to create an application for a physical robot without depending on the physical machine, thus saving cost and time. In some case, such applications can be transferred onto a physical robot (or rebuilt) without modification.

The term robotics simulator can refer to several different robotics simulation applications. For example, in mobile robotics applications, behavior-based robotics simulators allow users to create simple worlds of rigid objects and light sources and to program robots to interact with these worlds. Behavior-based simulation allows for actions that are more biotic in nature when compared to simulators that are more binary, or computational. Also, behavior-based simulators may learn from mistakes and can demonstrate the anthropomorphic...

JavaScript

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supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular

JavaScript (JS) is a programming language and core technology of the web platform, alongside HTML and CSS. Ninety-nine percent of websites on the World Wide Web use JavaScript on the client side for webpage behavior.

Web browsers have a dedicated JavaScript engine that executes the client code. These engines are also utilized in some servers and a variety of apps. The most popular runtime system for non-browser usage is Node.js.

JavaScript is a high-level, often just-in-time-compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular...

Nim (programming language)

2023-08-17. "Nim Tutorial (Part II): Object Oriented Programming". nim-lang.org. Retrieved 2023-08-17. "Nim by Example

Object Oriented Programming". nim-by-example - Nim is a general-purpose, multi-paradigm, statically typed, compiled high-level system programming language, designed and developed by a team around Andreas Rumpf. Nim is designed to be "efficient, expressive, and elegant", supporting metaprogramming, functional, message passing, procedural, and object-oriented programming styles by providing several features such as compile time code generation, algebraic data types, a foreign function interface (FFI) with C, C++, Objective-C, and JavaScript, and supporting compiling to those same languages as intermediate representations.

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Spring Framework

writing unit tests and integration tests. WebFlux support: support for using reactive runtimes or web servers such as UnderTow and Netty. Web Socket support:

The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. The framework does not impose any specific programming model.. The framework has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is free and open source software.

Marshalling (computer science)

intent or process to transfer some live object from a client to a server (with client and server taken as abstract, mirrored concepts mapping to any matching

In computer science, marshalling or marshaling (US spelling) is the process of transforming the memory representation of an object into a data format suitable for storage or transmission, especially between different runtimes. It is typically used when data must be moved between different parts of a computer program or from one program to another.

Marshalling simplifies complex communications, because it allows using composite objects instead of being restricted to primitive objects.

Resource acquisition is initialization

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acquisition is initialization (RAII) is a programming idiom used in several object-oriented, statically typed programming languages to describe a particular

Resource acquisition is initialization (RAII) is a programming idiom used in several object-oriented, statically typed programming languages to describe a particular language behavior. In RAII, holding a resource is a class invariant, and is tied to object lifetime. Resource allocation (or acquisition) is done during object creation (specifically initialization), by the constructor, while resource deallocation (release) is done during object destruction (specifically finalization), by the destructor. In other words, resource acquisition must succeed for initialization to succeed. Thus, the resource is guaranteed to be held between when initialization finishes and finalization starts (holding the resources is a class invariant), and to be held only when the object is alive. Thus, if there are...

Git

over either a plain socket or Secure Shell (ssh). Git also has a CVS server emulation, which enables the use of existing CVS clients and IDE plugins to

Git () is a distributed version control system that tracks versions of files. It is often used to control source code by programmers who are developing software collaboratively.

Design goals of Git include speed, data integrity, and support for distributed, non-linear workflows—thousands of parallel branches running on different computers.

As with most other distributed version control systems, and unlike most client-server systems, Git maintains a local copy of the entire repository, also known as "repo", with history and version-tracking abilities, independent of network access or a central server. A repository is stored on each computer in a standard directory with additional, hidden files to provide version control capabilities. Git provides features to synchronize changes between

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repositories...

Transmission Control Protocol

a three-way handshake procedure. The server must be listening (passive open) for connection requests from clients before a connection is established. Three-way

The Transmission Control Protocol (TCP) is one of the main protocols of the Internet protocol suite. It originated in the initial network implementation in which it complemented the Internet Protocol (IP). Therefore, the entire suite is commonly referred to as TCP/IP. TCP provides reliable, ordered, and error-checked delivery of a stream of octets (bytes) between applications running on hosts communicating via an IP network. Major internet applications such as the World Wide Web, email, remote administration, file transfer and streaming media rely on TCP, which is part of the transport layer of the TCP/IP suite. SSL/TLS often runs on top of TCP.

TCP is connection-oriented, meaning that sender and receiver firstly need to establish a connection based on agreed parameters; they do this through...

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