

# Refresher On .NET And Software Design Fundamentals For C

SOLID Principles: Do You Really Understand Them? - SOLID Principles: Do You Really Understand Them? 7 minutes, 4 seconds - People mention SOLID everywhere but very few do a good job of explaining it. I am hoping to put an end to that in this video so ...

Introduction

Single Responsibility Principle

Open-Closed Principle

Decorator Pattern

Extension Methods

Liskov Substitution Principle

Interface Segregation Principle

Dependency Inversion Principle

Conclusion

Software Design - Introduction to SOLID Principles in 8 Minutes - Software Design - Introduction to SOLID Principles in 8 Minutes 8 minutes, 17 seconds -

~~~~~ Our Top 10 Courses ...

Intro

Single Responsibility Principle- Example 1

Open/Closed Principle (OCP)

Liskov substitution principle (LSP)

Interface Segregation Principle (ISP) - Example 1

Dependency Inversion Principle

C# in 100 Seconds - C# in 100 Seconds 2 minutes, 27 seconds - C# or C,-Sharp is the programming language behind .NET, (dotnet) and the Unity framework. It was created at Microsoft as a C,-like ...

NET CORE DESKTOP APPS

XAMARIN MOBILE APPS

UNITY VIDEO GAMES

20 System Design Concepts Explained in 10 Minutes - 20 System Design Concepts Explained in 10 Minutes  
11 minutes, 41 seconds - A brief overview of 20 system **design concepts**, for system design interviews.  
Checkout my second Channel: @NeetCodeIO ...

Intro

Vertical Scaling

Horizontal Scaling

Load Balancers

Content Delivery Networks

Caching

IP Address

TCP / IP

Domain Name System

HTTP

REST

GraphQL

gRPC

WebSockets

SQL

ACID

NoSQL

Sharding

Replication

CAP Theorem

Message Queues

5 Design Patterns That Are ACTUALLY Used By Developers - 5 Design Patterns That Are ACTUALLY  
Used By Developers 9 minutes, 27 seconds - Design, patterns allow us to use tested ways for solving  
problems, but there are 23 of them in total, and it can be difficult to know ...

Introduction

What is a Design Pattern?

What are the Design Patterns?

Strategy Pattern

Decorator Pattern

Observer Pattern

Singleton Pattern

Facade Pattern

System Design Interview: A Step-By-Step Guide - System Design Interview: A Step-By-Step Guide 9 minutes, 54 seconds - ABOUT US: Covering topics and trends in large-scale system **design**., from the authors of the best-selling System **Design**, Interview ...

Introduction

Framework

Step 1 Understand the Problem

Step 2 Clarify

Step 2 Framework

Step 3 Design Diagram

Step 4 Design Diagram

Step 5 Data Model Schema

Object-Oriented Programming, Simplified - Object-Oriented Programming, Simplified 7 minutes, 34 seconds - 4 pillars of object-oriented programming: encapsulation, abstraction, inheritance and polymorphism. ?? Join this channel to get ...

Intro

PROCEDURAL PROGRAMMING

ENCAPSULATION

ABSTRACTION

HTML Element

BENEFITS OF OOP

PLEASE Master These 3 Software Design Principles... - PLEASE Master These 3 Software Design Principles... 11 minutes, 43 seconds - Here are 3 **software design principles**, that you need to master, watch to learn more: 1. Single Responsibility Principle (SRP) 2.

Principle 1

IDE Choice

Principle 2

## Principle 3

10 Design Patterns Explained in 10 Minutes - 10 Design Patterns Explained in 10 Minutes 11 minutes, 4 seconds - #programming #compsci #learntocode Resources Learn more from Refactoring Guru <https://refactoring.guru/design-patterns/> ...

## Design Patterns

What are Software Design Patterns?

Singleton

Prototype

Builder

Factory

Facade

Proxy

Iterator

Observer

Mediator

State

How To Prepare For Coding Interviews - How To Prepare For Coding Interviews 8 minutes, 54 seconds - Studying for coding interviews can be a tricky process where a lot of **software**, developers waste a lot of time. Here's how I would ...

How Software Engineers Lie About Their Salary - How Software Engineers Lie About Their Salary 8 minutes, 6 seconds - Become a better engineer in 5 minutes per week: <https://instabyte.io/subscribe> ? For more content like this, subscribe to our ...

How I'd learn to code if I had to start over - How I'd learn to code if I had to start over 11 minutes, 27 seconds - ----- Want to learn programming but feeling overwhelmed? This comprehensive video breaks down exactly how to ...

Create a C# Application from Start to Finish - Complete Course - Create a C# Application from Start to Finish - Complete Course 23 hours - In this comprehensive 24-hour-long course, you will learn to use C# to build a complete application from start to finish. Using **.net**, ...

How to NOT Fail a Technical Interview - How to NOT Fail a Technical Interview 8 minutes, 26 seconds - Welcome to the **software**, engineer's technical interview survival guide. Using a mock interview with the classic FizzBuzz question, ...

## TECHNICAL INTERVIEW

#LEARNTOCODE

BINARY TREE

TIP START WITH PSEUDOCODE

INTERVIEWERS WANT YOU TO SUCCEED

TIP SLOW DOWN

TIP THINK OUT LOUD

PRACTICE TALKING WHILE CODING

TIP ASK CLARIFYING QUESTIONS

AVOID MAGIC

MODULO?

Top 100 C#/ .NET/ Web API/ SQL Interview Questions - Top 100 C#/ .NET/ Web API/ SQL Interview Questions 2 hours, 49 minutes - NET, Interview Mastery Bootcamp (3 Courses Included) Course 1: Top 500 .NET, Interview Questions (with Quick Revision PDF ...

Introduction

Q1. What are the advantages of OOPS?

Q2. What are the limitations of OOPS?

Q3. What are the different types of Inheritance?

Q4. How to prevent a class from being Inherited?

Q5. What is Polymorphism and what are its types?

Q6. What is Method Overloading? In how many ways a method can be overloaded?

Q7. What is the difference between Overloading and Overriding?

Q8. What is the difference between an Abstract class and an Interface (atleast 4)?

Q9. When to use Interface and when Abstract class?

Q10. Why to even create Interfaces?

Q11. Do Interface can have a Constructor?

Q12. Can you create an instance of an Abstract class or an Interface?

Q13. What is the difference between “out” and “ref” parameters?

Q14. What is the purpose of “params” keyword?

Q15. What are Access Specifiers? What is the default access modifier in a class?

Q16. How to implement Exception Handling in C#?

Q17. Can we execute multiple Catch blocks?

- Q18. What is a Finally block and give an example when to use it?
- Q19. Can we have only “Try” block without “Catch” block?
- Q20. What is the difference between “throw ex” and “throw”?
- Q21. What are the Loop types in C#?
- Q22. What is the difference between “continue” and “break” statement?
- Q23. What is the difference between Array and ArrayList (atleast 2)?
- Q24. What is the difference between Arraylist and Hashtable?
- Q25. What is “this” keyword in C#? When to use it?
- Q26. What is the purpose of “using” keyword in C#?
- Q27. What is the difference between “is” and “as” operators?
- Q28. What is the difference between “Readonly” and “Constant” variables (atleast 3)?
- Q29. What is Boxing and Unboxing?
- Q30. What is the difference between “String” and “StringBuilder”? When to use what?
- Q31. What are Nullable types?
- Q32. What are the important components of .NET framework? What are their roles?
- Q33. What is an Assembly? What are the different types of assembly in .NET?
- Q34. What is GAC?
- Q35. What is Garbage Collection(GC)?
- Q36. Can we force Garbage Collector to run?
- Q37. What is the difference between Process and Thread?
- Q38. Explain Multithreading?
- Q39. What is Reflection?
- Q40. What is MVC (Model View Controller)? Explain MVC Life cycle.
- Q41. What are the advantages of MVC over Web Forms (atleast 3)?
- Q42. What are the different return types of a controller Action method?
- Q43. What are Filters and their types in MVC?
- Q44. What is Authentication and Authorization in ASP.NET MVC?
- Q45. What are the types of Authentication in ASP.NET MVC?
- Q46. What is Output Caching in MVC? How to implement it?

Q47. What is the difference between ViewData, ViewBag \u0026 TempData?

Q48. How can we pass the data from controller to view in MVC?

Q49. What is Partial View?

Q50. What are Areas in MVC?

Q51. How Validation works in MVC?

Q52. Explain the concept of MVC Scaffolding?

Q53. What is Bundling and Minification in MVC?

Q54. How to implement Security in web applications in MVC?

Q55. What are the events in Page Life Cycle?

Q56. What is the difference between Server.Transfer() and Response.Redirect()?

Most Tech Interview Prep is GARBAGE. (From a Principal Engineer at Amazon) - Most Tech Interview Prep is GARBAGE. (From a Principal Engineer at Amazon) 12 minutes, 57 seconds - Most **software**, engineering prep videos on YouTube are only good for entry-level jobs. You deserve more than that. Let me share ...

Intro

Why Tech Interviews Are Garbage

Stakes Are High

Not Enough Time

Modern Interview Theory

The 3 Levels

Behavioral Questions

Leadership Questions

How to Prepare

System Design Interview: Design Amazon Prime Video - System Design Interview: Design Amazon Prime Video 26 minutes - Abhishek Kumar (Engineering Manager, Flipkart) **designs**, a system for a video streaming service like Amazon Prime Video.

Introduction

Question

Requirements

Design

Follow-up questions

## Interview Analysis

### Tips

C# Fundamentals for Beginners - C# Fundamentals for Beginners 8 hours, 13 minutes - C# is a powerful and widely used programming language that you can use to make websites, games, mobile apps, desktop apps ...

### Start

#### Course Introduction

#### Installing Visual Studio

#### Creating Your First C# Program

#### Understanding Your First C# Program

#### Working with Code Files, Projects, and Solutions

#### Understanding Data Types and Variables

#### The if Decision Statement

#### Operators, Expressions, and Statements

#### for Iteration Statement

#### Understanding Arrays

#### Defining and Calling Methods

#### While Iteration Statement

#### Working with Strings

#### Working with Dates and Times

#### Understanding Classes

#### More About Classes and Methods

#### Understanding Scope and Accessibility Modifiers

#### Understanding Namespaces and Working with the .NET Class Library

#### Creating and Adding References to Assemblies

#### Working with Collections

#### Working with LINQ

#### Enumerations and the Switch Decision Statement

#### Gracefully Handling Exceptions

#### Understanding Events and Event-Driven Programming



Where to Go from Here

System Design Interview Walkthrough: Design Twitter - System Design Interview Walkthrough: Design Twitter 23 minutes - Designing, Twitter's System Architecture: A Deep Dive\*\* Join me as we delve into the intricate system **design**, of Twitter, one of the ...

Learn C# Sharp in Four Minutes - Learn C# Sharp in Four Minutes 4 minutes, 10 seconds - Learn **C**, sharp in four minutes with a fast introduction to the C# programming language and Microsoft **.net**,.

Data Structures Explained for Beginners - How I Wish I was Taught - Data Structures Explained for Beginners - How I Wish I was Taught 15 minutes - Data structures are essential for coding interviews and real-world **software**, development. In this video, I'll break down the most ...

Why Data Structures Matter

Big O Notation Explained

O(1) - The Speed of Light

O(n) - Linear Time

O(n<sup>2</sup>) - The Slowest Nightmare

O(log n) - The Hidden Shortcut

Arrays

Linked Lists

Stacks

Queues

Heaps

Hashmaps

Binary Search Trees

Sets

Next Steps \u0026amp; FAANG LeetCode Practice

Fundamental Concepts of Object Oriented Programming - Fundamental Concepts of Object Oriented Programming 9 minutes, 16 seconds - This video reviews the **fundamental concepts**, of Object Oriented Programming (OOP), namely: Abstraction, which means to ...

What is an object?

Abstraction

Objects from a class

Encapsulation

Inheritance

Polymorphism

Summary of OOP concepts

ASP.NET Core Crash Course - C# App in One Hour - ASP.NET Core Crash Course - C# App in One Hour 1 hour - Learn how to create a web database app in ASP.NET, Core using Visual Studio and the C# language. This tutorial will show you ...

Introduction

Welcome

Course Overview

Is this course right for you

What is ASPNET Core

What is NET

What is C

What is ASPNET

Full Stack Environment

Demo

MVC

Controller

Models

Properties

Create Pages

Run App

Migrations

Object Relation Mapper

Creating Tables

Index Page

Features

Finished Product

Test App

Show Search Form

Show Search Results

Testing

Jokes

CSS

Advanced C# Programming Course - Advanced C# Programming Course 15 hours - Learn advanced C# programming **concepts**,. This course is **designed**, to elevate your programming proficiency, delving into ...

Top 6 Coding Interview Concepts (Data Structures \u0026 Algorithms) - Top 6 Coding Interview Concepts (Data Structures \u0026 Algorithms) 10 minutes, 51 seconds - 0:00 - Intro 1:16 - Number 6 3:12 - Number 5 4:25 - Number 4 6:00 - Number 3 7:15 - Number 2 8:30 - Number 1 #coding ...

Intro

Number 6

Number 5

Number 4

Number 3

Number 2

Number 1

how programmers overprepare for job interviews - how programmers overprepare for job interviews 1 minute, 10 seconds - Mapa hash. SOCIAL MEDIA .....  
<https://www.instagram.com/jomakaze/> ...

SE 22 : Software Design Concepts with Examples #softwareengineeringtutorials - SE 22 : Software Design Concepts with Examples #softwareengineeringtutorials 13 minutes - Keep Watching..! Keep Learning..! Thank You..! #csandittutorialsbyvrushali #softwareengineering #designconcepts ...

Software Engineering

About Software Design Concepts

Abstraction

Architecture

Design Patterns

Modularity

Information Hiding

Refinement

Refactoring

Object Oriented Design Concepts

## Important Questions

Top 30 .Net Core Interview Questions in 30 mins - .NET C# - Top 30 .Net Core Interview Questions in 30 mins - .NET C# 37 minutes - NET, Interview Mastery Bootcamp (3 Courses Included) Course 1: Top 500 .NET, Interview Questions (with Quick Revision PDF ...

## Introduction

What is .NET Core

Advantages of .NET Core Over . Net Framework

Explain default project structure ?

Role of Program .CS file

What is the role of Startup.cs file?

What is the role of ConfigureServices \u0026amp; Configure method?

What is Dependency Injection in ASP.NET Core?

What are the types of Service Lifetimes of an object/ instance in ASP.NET Core?AddSingleton, AddSoped and AddTransient method?

What is Middleware in ASP.NET Core?

What is Kestrel?

What is the difference between Kestrel and IIS?

What is request Delegate ?

What is Host in ASP.NET Core ?

What are the various techniques to save configuration settings in ASP.NET Core?

How Routing Works?

Explain Attribute Routing ?

Complete Request processing pipeline?

Can ASP.NET core application work with .NET 4.X Framework?

What is metapackage ?

How ASP.NET core serve static files ?

Various JSON files ?

NET Standard ?

Razor Pages ?

Dependency Injection ?

Custom Middleware ?

Explain session and state management ?

Explain model validation ?

How to handle errors ?

How to enable session ?

Explain Model Binding ?

How Git Works: Explained in 4 Minutes - How Git Works: Explained in 4 Minutes 4 minutes, 18 seconds - Animation tools: Adobe Illustrator and After Effects. Checkout our bestselling System **Design**, Interview books: Volume 1: ...

Software Design Principles For Beginners - Software Design Principles For Beginners 53 minutes - ~~~~~ Our Top 10 Courses ...

RANGA RAO KARANAM

In 28 Minutes What is Cohesion?

In 28 Minutes What is Coupling?

AWESOME LEARNING EXPERIENCES

SOLID PRINCIPLES • SRP Single Responsibility Principle • OCP Open Closed Principle . LSP Liskov Substitution Principle • ISP Interface Segregation Principle • DIP Dependency Inversion Principle

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