



# We couldn't find that photo

next page →

C +

▪ qq 2820047809 (Trdthg)

☺ For	IO Club
🦊 Presenter	20
🐧 QQ	2820047809
👤 Github	trdthg



We couldn't find that photo

[source.unsplash.com](https://source.unsplash.com)

C

/

■

C

■

C

C++

■

<https://github.com/search?q=>

■

■

■ OI-Wiki

OJ

OJ



编程2021C语言零基础视

C语言入门初学者小白...

!大学计算机... · 2021-8-24



【C语言】《带你学C带你飞》

UP 鱼C-小甲鱼 · 2018-7-26



【清华大学】C语言课程，

通C语言程序设计！C语言

UP 秃头美少年坤坤 · 9-14

言学那么多语法有用吗？

一个小球的编程之旅



球，27分钟，讲清楚所

语言语法知识

!老师 · 5-19



翁恺C语言

UP carrot-boer · 2018-1-6



【C语言教程600集】目前

完整的C语言教程，包含

UP 编程不加班 · 9-24



《C#语言入门详解》全



嵌入式C语言



C语言经典100题（手把手

)

-  C -
-  - IDE /
-  C - /
- 

```
#include <stdio.h>

int main() {
    printf("Hello World ");
    return 0;
}
```



We couldn't find that photo

# C

1. C
  - C
2. C
3. C
4. / / ...



C

1.

- 
- gcc
- CMD

2.

- 
- 
- 

nano +

2.

- Dev C++



- VS







▪

▪

- gcc

C / Cpp & [\[1\]](#)

Logo

Linux	<b>gcc</b>	GNU		<code>`apt install gcc`</code>	
Windows	<b>gcc</b>	MinGW <sup>[2]</sup>		<code>`</code> or <i>Dev C++</i>	
Windows	<b>CL</b>	MSVC		VS	
All	<b>clang</b>	Clang & LLVM		<code>`apt install clang`</code>	VS

1. [Binutils](#) [GCC](#) [Glibc](#)

2. [Minimalist GNU for Windows](#)



1. Dev C++ VS



+ + + +

2.

MinGW (gcc) MSVC (cl)

3. gcc

- IDE

- vscode



- 

- ( + )

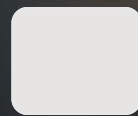
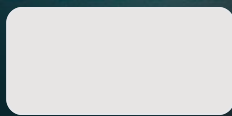
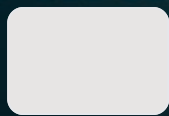
- cph
- c/c++

# C

- 
- 
- 
- 
- &
- & IO &
- malloc
- 
- 
- |
- IDE /
- / /
- Git / Github
- Markdown / Editor



We couldn't find that photo



# Rust

[illegible]

Go

```
package main

func main() {
    var a8 int8 = 8
    var a16 int16 = 8
    var a32 int32 = 8
    var a64 int64 = 8

    var u8 uint8 = 0
    var u16 uint16 = 0
    var u32 uint32 = 0
    var u64 uint64 = 0

    // byte    uint8
    var c2 uint8 = 'a'
    var c1 byte = 'a' // byte    uint8        uint8

    print(a8, a16, a32, a64, u8, u16, u32, u64)
}
```

## C

```
char a1 = 127;    // 8    0000 0000 -128 - 127
short a2 = 1;     // 16
int a3 = 0;       // 32
long a4 = 0;      // 64
long long a5 = 0; // 128 0000 0000 0000 0000 0000 0000 0000
```

```
unsigned char b1 = 255;    // 8
unsigned short b2 = 1;     // 16
unsigned int b3 = 0;       // 32
unsigned long b4 = 0;      // 64
unsigned long long b5 = 0; // 128
```

```
float c1 = 1.0;    // 32
double c2 = 1.0;   // 64
long double c3 = 1.0; // 128
```

```
char c1 = 'a';
char c2 = '\\0';
```

ASCII

-----



# We couldn't find that photo

(if, switch)

(for, while)

# if

```
if (xxx) {  
    ...  
} else if (xxx) {  
    ...  
} else {  
    ...  
}
```

```
if (i == 0)  
    printf("    \n");  
else if (i == 1)  
    printf("    \n");  
else  
    printf("    \n");
```

```
#include <stdio.h>  
int main() { // scope 0  
    int i = 0;  
  
    { // scope 1  
        int a = 0;  
        printf("%d", i);  
    }  
  
    printf("%d", a);  
  
    { // scope 2  
        int b = 0;  
        printf("%d", i);  
    }  
  
    return 0;  
}
```



# switch

```
switch (i)
{
    case 1:
        statement1;
        statement2;
        break;
    case 2:
        statement;
        break;
    ...
    default:
        statement;
}
```

## FSM

```
#include <stdio.h>
int main() {

    return 0;
}
```

## for

```
for (    ;    ;    ) {  
    ...  
}  
  
for (;;) {  
    //  
}
```

## while

```
while (    ) {  
    ...  
}
```

## Break Continue

```
#include<stdio.h>  
int main() {  
    for(int i = 0; i < 5; i++) {  
        if (i == 3) {  
            continue; //  
            break;    //  
        }  
        printf("%d\n", i); // 0 1 2  
    }  
}
```

1.

$f(x)$

■



2.

```
int add(int a, int b) {  
    return a + b;  
}
```

`y = |x|`

```
#include <stdio.h>  
  
int main() {  
  
    return 0;  
}
```

# void ?

## void

1.

```
void printSomeSentence()  
{  
    printf("=====\n");  
    printf("Company *****\n");  
    printf("Fax ***** \n");  
    printf("Email ***** \n");  
    printf("=====\n");  
}
```

2.

```
void printSomeSentence(void)  
{  
    printf("=====\n");  
    printf("Company *****\n");  
    printf("Fax ***** \n");  
    printf("Email ***** \n");  
    printf("=====\n");  
}
```

# main

```
#include<stdio.h>
int main(int argc, char* argv[]) {
    // argc:
    // argv:

    return 0;
}
```

C/C++

---

```
int a[6];

char b[6];

double c[6];
```

```
#include <stdio.h>
int main() {
    char chars[5] = {'a', 'b', 'c', 'd', 'e'};
    //           0   1   2   3   4

    char chars_first = chars[0];
    char chars_last = chars[4];

    for (int i = 0; i < 5; i++) {
        printf("%c\n", chars[i]);
    }
}
```



e couldn't find that pho



We couldn't find that photo

[source.unsplash.com](https://source.unsplash.com)

```
char chars[10] = {'a', 'b', 'c', 'd', 'e', '\0'};  
printf("%s", chars); // abcde
```

```
`\0`
```

```
char chars[10] = {'a', 'b', 'c', 'd', 'e', '\0', 'a'};  
printf("%s", chars); // abcde
```

```
char chars[] = {"abcde"};  
char chars[] = "abcde";
```



We couldn't find that photo

## C string.h

1.

```
#include <string.h>
char str[] = "abcde";
int len = strlen(str);
```

2.

```
char str1[] = "abcde";
char str2[10];
strcpy(str2, str1);
```

3.

```
char str1[] = "aaa";
char str2[] = "bbb";

int res = strcmp(str1, str2);

if (res == 0)
    printf("str1 str2\n");
else
    printf("str1 str2 \n");
```



```
#include <stdio.h>
int main(int argc, char *argv[]) {
    int arr[10][10] = {};
    for (int i = 0; i < 10; i++) {
        for (int j = 0; j < 10; j++) {
            printf("%d ", arr[i][j]);
        }
        printf("\n");
    }
    return 0;
}
```

# main

```
#include<stdio.h>
int main(int argc, char* argv[]) {

    return 0;
}
```

# `#define`

```
#define LIGHT 1
#define DARK 1

enum Week {
    Monday = 0,
    Tuesday = 1,
    Wednesday = 2,
};

int main(int argc, char const *argv[]) {
    printf("%d\n", LIGHT);
    return 0;
}
```

1. (Preprocessing)
  - `#include`
2. (Compilation)
  -
3. (Assemble)
  -
4. (Linking)
  - `(.so / .dll)`

template