

Void Pointer In C Language- C Tutorial In Hindi #52.mp4 - VLC media player

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WHAT IS A VOID POINTER?

- ✓ A void pointer is a pointer that has no data type associated with it.
- ✓ A void pointer can be easily typecasted to any pointer type
- ✓ In simple language it is a general purpose pointer variable

Handwritten code and diagrams:

```
Void func1() {
    printf(---);
}
```

Diagram: A stick figure points to a box labeled 'void'. To the right are two empty rectangular boxes.

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VOID POINTER: C PROGRAM

- ✓ A void pointer is a pointer that has no data type associated with it.
- ✓ A void pointer can be easily typecasted to any pointer type

Handwritten code and diagrams:

```
int x = 10;
char y = 'x';
```

Diagram: An arrow points from '10' to a box labeled 'ID'. Another arrow points from 'x' to a box labeled 'X'. A third box labeled 'A1' is also shown.

- ✓ `void *p = &x;` // void pointer stores address of int 'x'
- ✓ `p = &y;` // void pointer now holds address of char 'y'

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USES OF VOID POINTERS

General purpose pointer variable.

- ✓ In dynamic memory allocation, malloc() and calloc() return (void *) type pointer
- ✓ This allows these dynamic memory functions to be used to allocate memory of any data type. This is because these pointers can be typecasted to any pointer type.

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MORE ON VOID POINTERS

*Void *ptr*

** ptr*

ptr

- ✓ It is not possible to dereference void pointers.
- ✓ Pointer arithmetic is not allowed in C standards with void pointers.
- ✓ Hence it is not recommended to use pointer arithmetic with void pointers.

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