



Yeni Başlayanlara

Programlamaya Giriş - 1 Tanıtım



Programlama nedir?

Bir bilgisayara çeşitli komutlar verilerek, istediğimiz eylemi gerçekleştirmektir.



İki sayının toplamı kadar basit bir program da olabilir; verdiğimiz fotoğraftaki hayvanın kedi mi köpek mi olduğunu ayırt edecek kadar karmaşık bir program da olabilir.

$$2 + 3 = 5$$

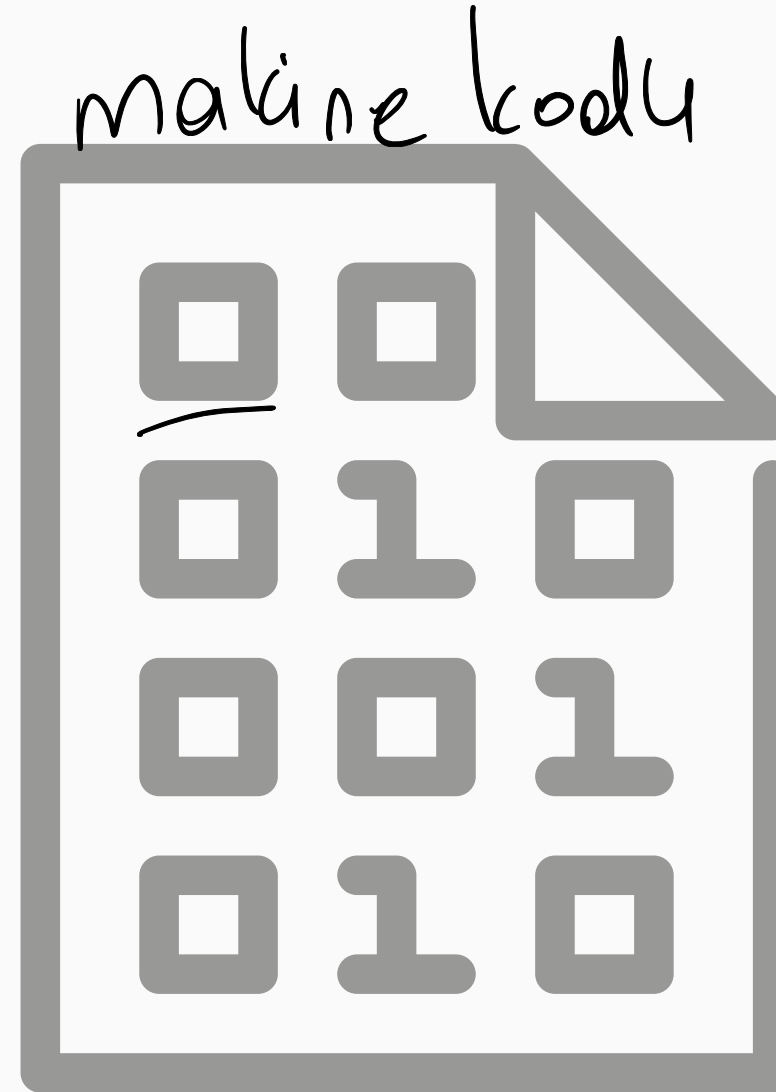


Programlama dilleri?



Bilgisayarlar insan dilinden anlamazlar.

1,0



Birler ve sıfırlar...

Assembler

```
1  segment .data
2  msg db  "Hello, world!",10
3  len equ  $ - msg
4
5  segment .text
6  global _start
7
8  _start:
9      mov  eax,4
10     mov  ebx,1
11     mov  ecx,msg
12     mov  edx,len
13     int  80h
14
15     mov  eax,1
16     mov  ebx,0
17     int  80h
```

Handwritten binary representation of the assembly code, grouped into four columns:

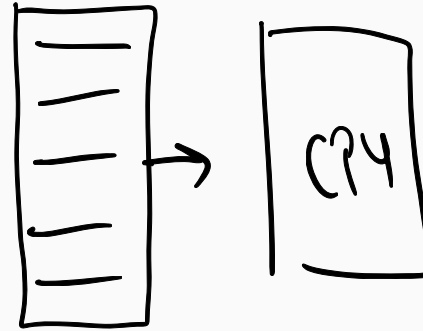
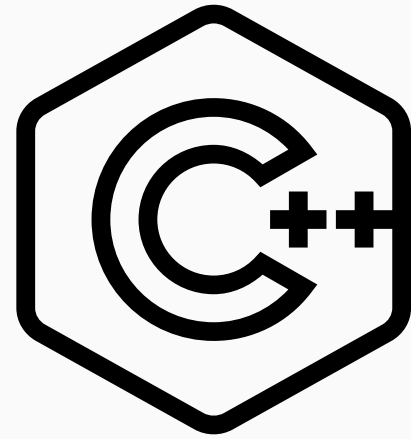
1001	1111	1001	0000
1001	1001	1111	0101
,	,	,	,
,	,	,	,

CPU

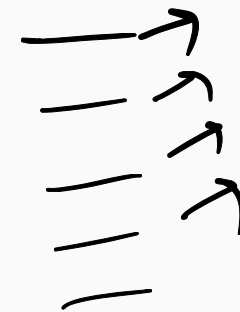


Derlenen *(compiled)*

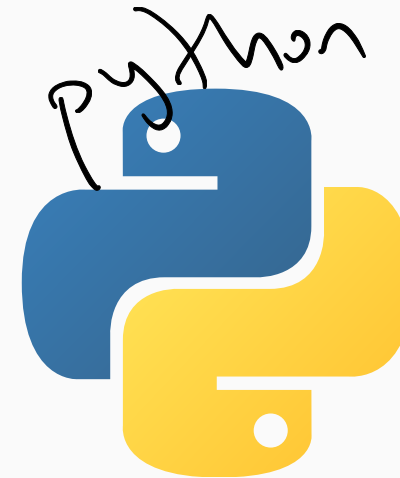
C



kotlin

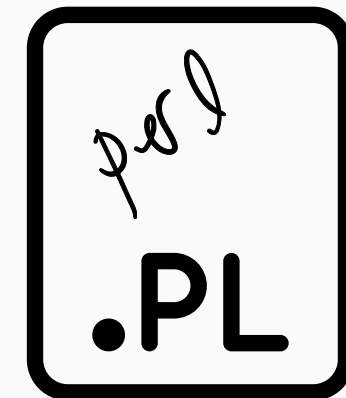


(interpreted) Yorumlanan



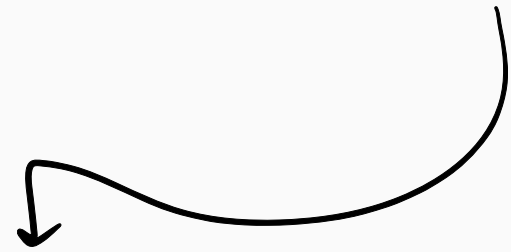
python

.js



C'nin başlangıcı

1967 → BCL → B dili



Dennis Ritchie

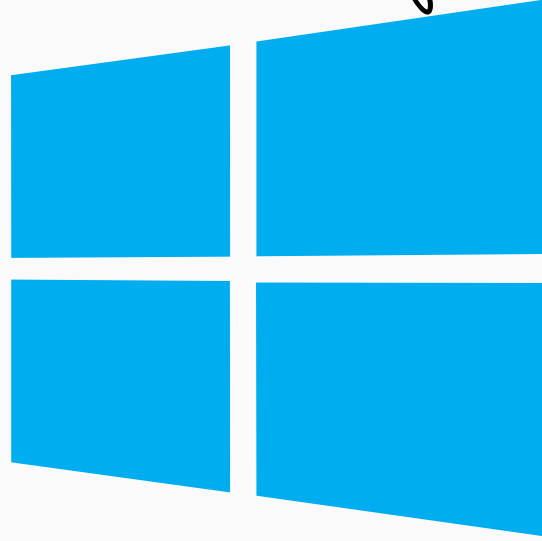
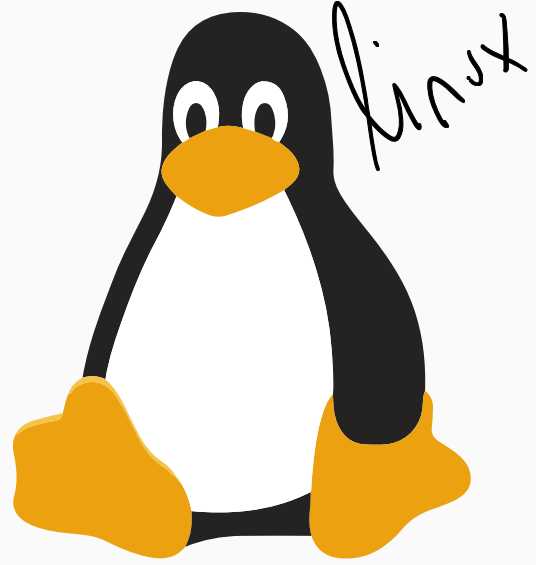
1972 → C → D dili
↳ C++



C'nin kullanım alanları

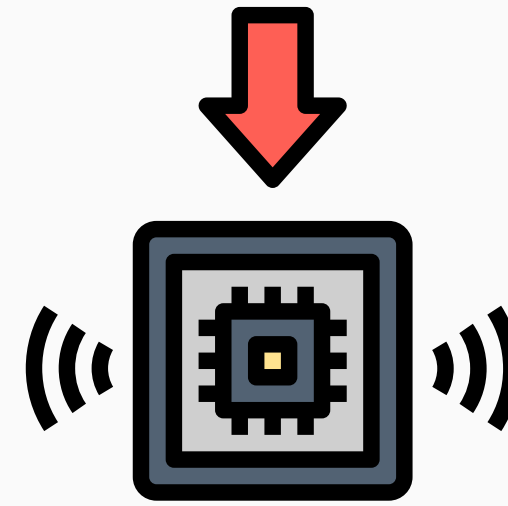


İşletim sistemleri

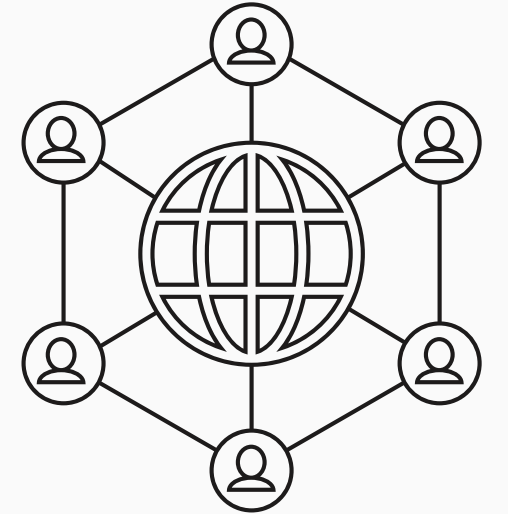


iot

Gömülü



Haberleşme



C kodunu çalıştırmak



6 adım

