

# IL LINGUAGGIO C

- 1972 Bell Labs  
Unix ← Dennis Ritchie  
Thompson

- Ritchie, Kernighan:  
« The C Programming Language » (1978)

- STANDARD  
ANSI C = C89 ←  
C99  
C11

hello.go

package main

import "fmt"

func main() {

var m, i int

fmt. Print("Quante volte, padre?")

fmt. Scan(&m)

for i=0; i<m; i++ {

fmt. Println("Ciao")

}

}

hello.c

```
#include <stdio.h>
```

```
int main() {
```

```
    int n, i;
```

```
    printf("Quante volte, padrone");
```

```
    scanf("%d", &n);
```

```
    for (i = 0; i < n; i++)  
        printf("Ciao\n");
```

```
}
```

\$> gcc hello.c  
\$> ./a.out

---

\$> gcc -o hello hello.c  
\$> ./hello

SOURCE

hello.c

hello.i

pre compilation

gcc -o hello.i  
-E hello.c

hello.s

compilation

gcc -S hello.c

hello.o

assemblaggio

gcc -c hello.c

hello

linking

gcc -o hello  
hello.c