

# Build A Shared Library

Step by step

## 1. Get `hi.o`

```
$ gcc -fPIC -c hi.c
```

## 2. Get `libhi.so`

```
$ gcc -shared -o libhi.so hi.o
```

## 3. Use `libhi.so`

```
$ gcc -L. -Wl,-rpath=. hello.c -lhi
```

## 4. Check it

```
$ ldd a.out
```