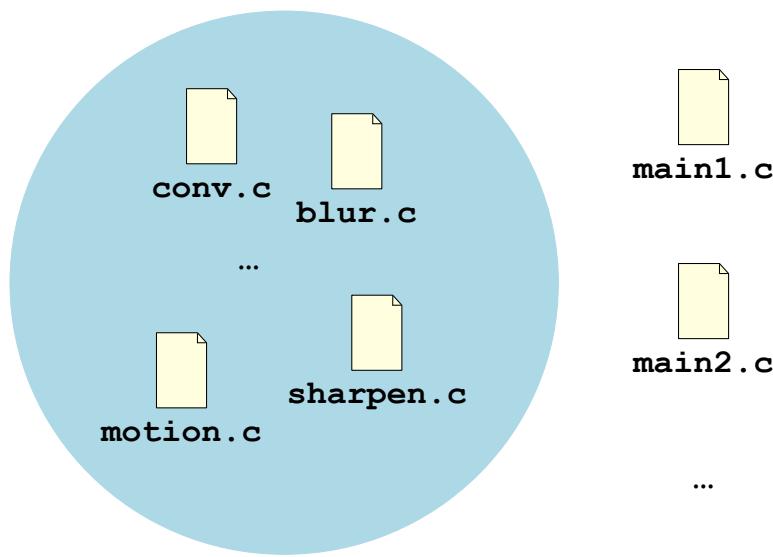


Libraries



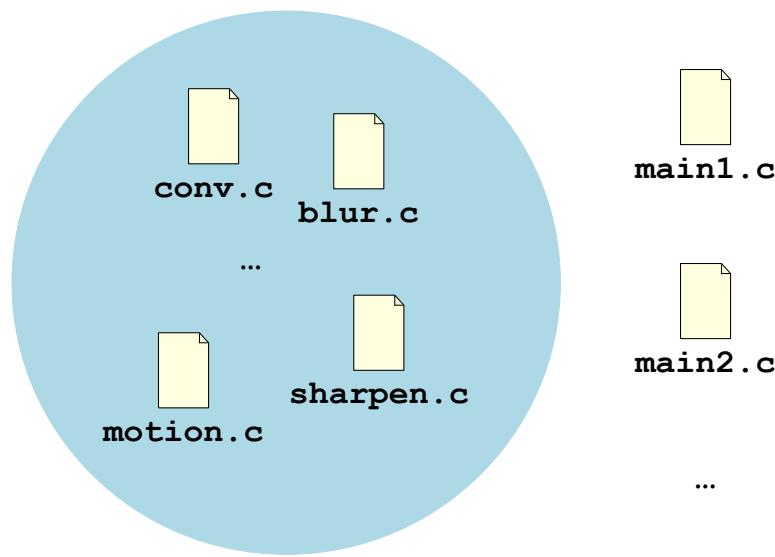
```
gcc -c conv.c
```

```
gcc -c blur.c
```

```
...
```

```
gcc -o main1 main1.o conv.o blur.o motion.o sharpen.o ...
```

Libraries



```
gcc -c conv.c
```

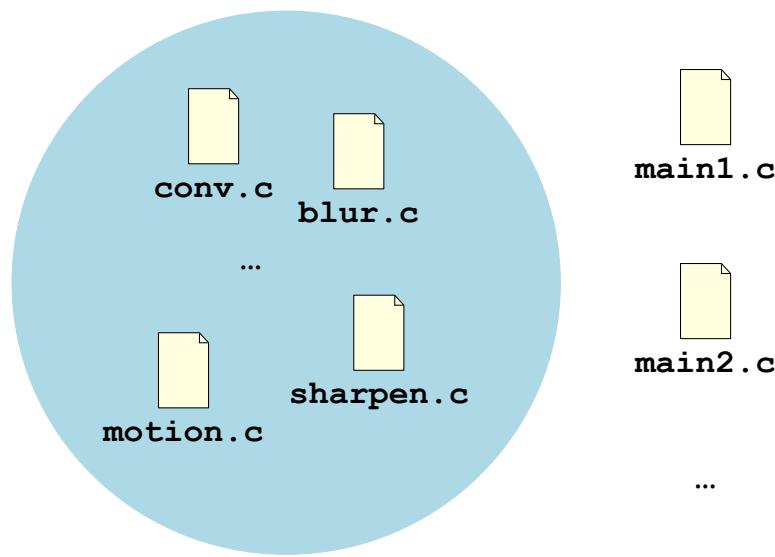
```
gcc -c blur.c
```

```
...
```

```
ar -ruv image.a conv.o blur.o motion.o sharpen.o ...
```

```
gcc -o main1 main1.c image.a
```

Libraries



```
gcc -c conv.c
```

```
g . create a library (specifically: a static library)
```

```
ar -ruv image.a conv.o blur.o motion.o sharpen.o ...
```

```
gcc -o main1 main1.c image.a
```

Libraries

conv.c

```
int conv(img_t *i, mat_t *op) {  
    ...  
}
```

blur.c

```
int blur_some(img_t *i) {  
    ... conv(i, small_blur) ... }  
  
int blur_much(img_t *i) {  
    ... conv(i, big_blur) ... }
```

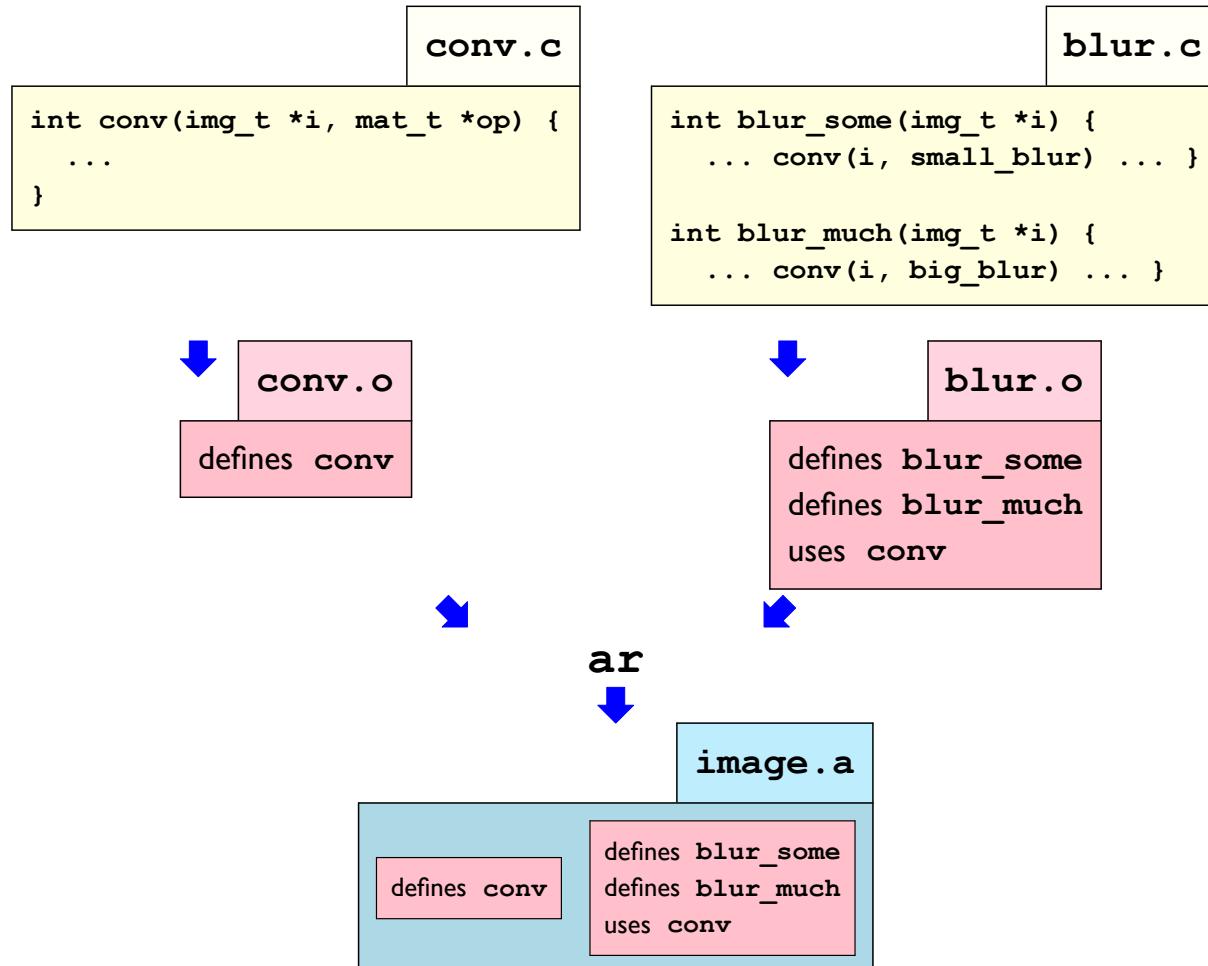
conv.o

```
defines conv
```

blur.o

```
defines blur_some  
defines blur_much  
uses conv
```

Libraries



Linking to Installed Libraries

Supplying

-lname

to **gcc** is equivalent to supplying

/path/to/libname.a

-lc = */lib64/libc.so*

Linking to Installed Libraries

Supplying

-lname

to **gcc** is equivalent to supplying

/path/to/libname.a

-lssl3 = /usr/lib64/libssl3.so

Linking to Installed Libraries

Supplying

-lname

to **gcc** is equivalent to supplying

/path/to/libname.a

-lbsd-compat = */usr/lib64/libbsd-compat.a*

Linking to Installed Libraries

Supplying

-lname

to **gcc** is equivalent to supplying

/path/to/libname.a

gcc adds **-lc** automatically, which is why calling **printf** works