

Dove

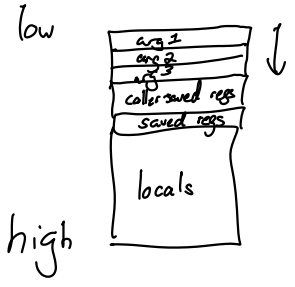
- * Function declarations
- * Compile-time errors

```
def dbl(n)
  n*2
end
dbl(4)
```

```
fn_dbl:
  ② push rbp
  mov rbp, rsp
  sub rsp, ....
  push ....
  ③ .....
  ④ pop ....
  mov rsp, rbp
  pop rbp
  ret
```

- ① (calc args)
- push
- (add args)
- call fn_dbl
- ⑤ (remove args)
- pop (restore regs)

args are "upside down"



Dove. static errors

- * Syntax:


```
foo(n)
  n*3
end
```
- * Unbound vars:


```
n+j
```
- * Wrong # of args:


```
def f(n,j)
  end
f(3,4,5)+f(6)
```
- * Duplicate fn names:


```
def g(n) n+1 end
def g(n) n*2 end
g(4)
```
- * Duplicate param names:


```
def fn(a,a,a)
  a+a
end
fn(1,2,3)
```

