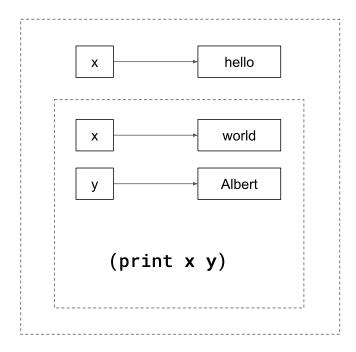
Scoping Rules

How do we resolve bindings for nested scopes

Nested Scopes

```
(def x "hello")
(let [x "world"
     y "Albert"]
  (print x y))
```

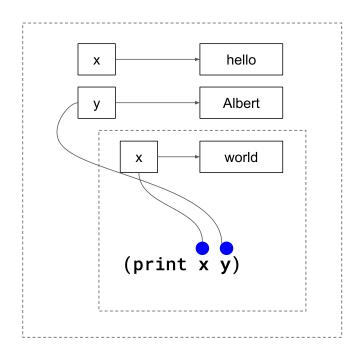
What is the binding for x?



Nested Scopes

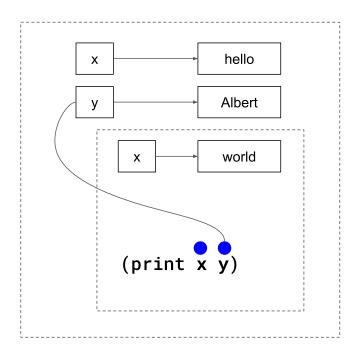
```
(def x "hello")
(def y "Albert")
(let [x "world"]
  (print x y))
```

What is the binding for x?

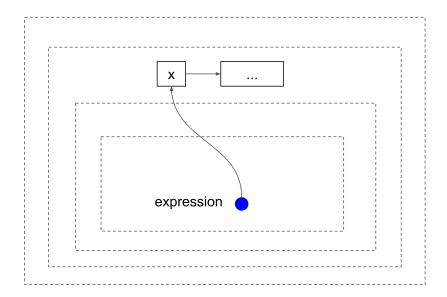


Nested Scopes

What is the binding for y?



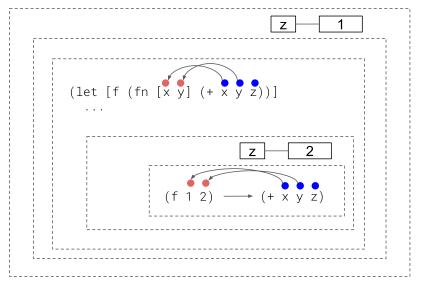
Closure of scopes



Functions as values

Functions are weird.

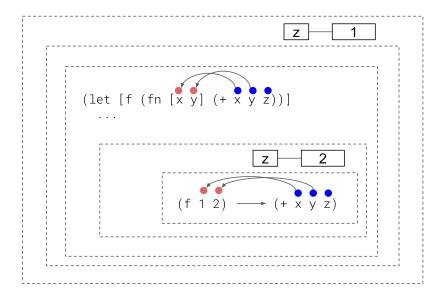
- Functions are declared.
- Functions are invoked.
- Functions can contain free variables.



Functions as values

What is the binding for **z**?

- Closure of scope of function declaration.
- Closure of scope of function invocation.

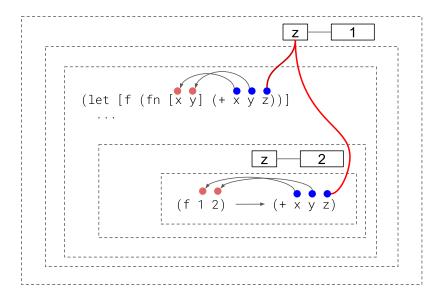


Functions as values

What is the binding for **z**?

Closure of scope of function declaration.

Lexical scoping



Functions as values

What is the binding for **z**?

Closure of scope of function invocation.

Dynamic scoping

