

A tour of Nix

23 / 35 Scoping of attributes in let/with

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This question is about scopes. `let` binds `attributes` as well as `with` does.

Question: Which value is `res` assigned to and why?

Solution: See the `solution` button's associated source code.

Note: See video [@youtube](#)

```
1 let
2   x = 123;
3   as = { a = "foo"; b = "bar"; x="234"; };
4
5 in with as; {
6   res = x; # what value is res bound to?
7 }
8
9
```

[reset](#)[solution](#)[run](#)

```
{ res = 123; }
# most ppl would assume that x would be bound to "234" because it was
# introduced last using `with as` but instead it actually binds to 123;
#
#See this example, why it makes sense:
#{ config, lib, pkgs, ... }:
#
#let
#  vim = pkgs.stdenv.mkDerivation {
#    name = "vim-hack";
#    unpackPhase = "true";
#    installPhase = ''
#      mkdir -p $out/bin;
#      echo '#!/bin/sh
#      echo hi' > $out/bin/vim1;
#      chmod u+x $out/bin/vim1
#    '';
#  };
#in
#
#{
#  environment.systemPackages = with pkgs; [ vim ];
#}
```

