

Last login: Mon Jan 22 15:32:48 on ttys007

carbon:\$ utop

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Welcome to utop version 2.0.2 (using OCaml version 4.06.0)!

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Type #utop\_help for help about using utop.

```
-( 15:39:42 )-< command 0 >-----{ counter: 0 }-
utop # #use "simple";;
Cannot find file simple.
-( 15:39:42 )-< command 1 >-----{ counter: 0 }-
utop # #use "simple.ml";;
val inc_v1 : int -> int = <fun>
val inc_v2 : int -> int = <fun>
val square : int -> int = <fun>
val cube : int -> int = <fun>
val add : int -> int -> int = <fun>
val inc_v3 : int -> int = <fun>
val add3 : int -> int -> int -> int = <fun>
val greater : 'a -> 'a -> 'a = <fun>
val circle_area : float -> float = <fun>
val power : int -> float -> float = <fun>
-( 15:39:51 )-< command 2 >-----{ counter: 0 }-
utop # power 3 3.0 ;;
- : float = 27.
-( 15:39:55 )-< command 3 >-----{ counter: 0 }-
utop # #use "simple.ml";;
val inc_v1 : int -> int = <fun>
val inc_v2 : int -> int = <fun>
val square : int -> int = <fun>
val cube : int -> int = <fun>
val add : int -> int -> int = <fun>
val inc_v3 : int -> int = <fun>
val add3 : int -> int -> int -> int = <fun>
val greater : 'a -> 'a -> 'a = <fun>
val circle_area : float -> float = <fun>
val power : int -> float -> float = <fun>
val cube : float -> float = <fun>
-( 15:41:02 )-< command 4 >-----{ counter: 0 }-
utop # cube 3.0 ;;
- : float = 27.
-( 15:49:34 )-< command 5 >-----{ counter: 0 }-
utop # #use "simple.ml";;
val inc_v1 : int -> int = <fun>
val inc_v2 : int -> int = <fun>
```

```

val square : int -> int = <fun>
val cube : int -> int = <fun>
val add : int -> int -> int = <fun>
val inc_v3 : int -> int = <fun>
val add3 : int -> int -> int -> int = <fun>
val greater : 'a -> 'a -> 'a = <fun>
val circle_area : float -> float = <fun>
val power : int -> float -> float = <fun>
val cube : float -> float = <fun>
-( 15:49:48 )-< command 6 >-----{ counter: 0 }-
utop # #use "simple.ml";;
val inc_v1 : int -> int = <fun>
val inc_v2 : int -> int = <fun>
val square : int -> int = <fun>
val cube : int -> int = <fun>
val add : int -> int -> int = <fun>
val inc_v3 : int -> int = <fun>
val add3 : int -> int -> int -> int = <fun>
val greater : 'a -> 'a -> 'a = <fun>
val circle_area : float -> float = <fun>
val p : int -> float -> float = <fun>
val power : int -> float -> float = <fun>
val cube : float -> float = <fun>
val gcd : int -> int -> int = <fun>
-( 15:51:27 )-< command 7 >-----{ counter: 0 }-
utop # gcd 10 8 ;;
- : int = 2
-( 16:08:53 )-< command 8 >-----{ counter: 0 }-
utop # [ 1; 2; 3 ] ;;
- : int list = [1; 2; 3]
-( 16:08:59 )-< command 9 >-----{ counter: 0 }-
utop # 1 :: 2 :: 3 :: [] ;;
- : int list = [1; 2; 3]
-( 16:16:10 )-< command 10 >-----{ counter: 0 }-
utop # 1 :: (2 :: (3 :: [])) ;;
- : int list = [1; 2; 3]
-( 16:16:17 )-< command 11 >-----{ counter: 0 }-
utop # 2 :: 3 ;;
Error: This expression has type int
      but an expression was expected of type int list
-( 16:17:24 )-< command 12 >-----{ counter: 0 }-
utop # 2 :: 3 :: [] ;;
- : int list = [2; 3]
-( 16:17:36 )-< command 13 >-----{ counter: 0 }-
utop # [1;2 ] @ [3;4] ;;
- : int list = [1; 2; 3; 4]

```

```
-( 16:18:10 )-< command 14 >-----{ counter: 0 }-
utop # let x = 4 ;;
val x : int = 4
-( 16:19:08 )-< command 15 >-----{ counter: 0 }-
utop # let add4 y = y + x ;;
val add4 : int -> int = <fun>
-( 16:44:01 )-< command 16 >-----{ counter: 0 }-
utop # add4 6 ;;
- : int = 10
-( 16:44:08 )-< command 17 >-----{ counter: 0 }-
utop # let x = 18 ;;
val x : int = 18
-( 16:44:12 )-< command 18 >-----{ counter: 0 }-
utop # add4 6 ;;
- : int = 10
-( 16:44:18 )-< command 19 >-----{ counter: 0 }-
utop # let add4 y = y + x ;;
val add4 : int -> int = <fun>
```