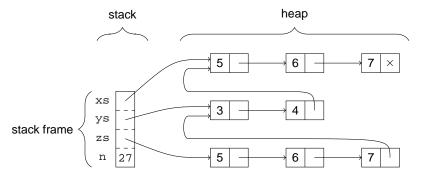
Memory management: stack and heap



- Primitive values are allocated on the stack
- Composite values are allocated on the heap

```
let xs = [5;6;7];;
let ys = 3::4::xs;;
let zs = xs @ ys;;
let n = 27;;
```



Observations



No unnecessary copying is done:

- 1 The linked lists for ys is not copied when building a linked list for y :: ys.
- Fresh cons cells are made for the elements of xs only when building a linked list for xs @ ys.

since a list is a functional (immutable) data structure

The running time of @ is linear in the length of its first argument.