Documentation for the garb.ss teachpack

The teachpack `garb.ss` contains structures and data definitions for *garb* and *customer*. Information on how to install teachpacks can be found on the course Web site.

1 Structure and data definitions

(*define-struct garb* (*name material size*))
;; A **garb** is a structure (*make-garb n m s*), where
;;   *n* is a string,
;;   *m* is a symbol 'paper, 'metal, or 'plastic, and
;;   *s* is a symbol 'small, 'medium, 'large, or 'any.

(*define-struct customer* (*name habitat size*))
;; A **customer** is a structure (*make-customer n h s*), where
;;   *n* is a string,
;;   *h* is a symbol 'land, 'water, or 'air,
;;   *s* is a symbol 'small, 'medium, or 'large.

2 Built-in data

To save you time, the teachpack includes the definition of many constants. You are welcome to create more definitions along with the functions that you create for labs and assignments.

(**define** *hat-s* (*make-garb* "small hat" 'paper 'small))
(**define** *crown-s* (*make-garb* "small crown" 'metal 'small))
(**define** *tiara-s* (*make-garb* "small tiara" 'plastic 'small))

(**define** *hat-m* (*make-garb* "medium hat" 'paper 'medium))
(**define** *crown-m* (*make-garb* "medium crown" 'metal 'medium))
(**define** *tiara-m* (*make-garb* "medium tiara" 'plastic 'medium))

(**define** *hat-l* (*make-garb* "large hat" 'paper 'large))
(**define** *crown-l* (*make-garb* "large crown" 'metal 'large))
(**define** *tiara-l* (*make-garb* "large tiara" 'plastic 'large))

(**define** *hair-ribbon* (*make-garb* "hair-ribbon" 'paper 'any))
(**define** *pin* (*make-garb* "pin" 'metal 'any))
(**define** *band* (*make-garb* "band" 'plastic 'any))

(**define** *mammal-s* (*make-customer* "small mammal" 'land 'small))
(**define** *fish-s* (*make-customer* "small fish" 'water 'small))
(**define** *bird-s* (*make-customer* "small bird" 'air 'small))

```
(define mammal-m (make-customer "medium mammal" 'land 'medium))
(define fish-m (make-customer "medium fish" 'water 'medium))
(define bird-m (make-customer "medium bird" 'air 'medium))

(define mammal-l (make-customer "large mammal" 'land 'large))
(define fish-l (make-customer "large fish" 'water 'large))
(define bird-l (make-customer "large bird" 'air 'large))
```