

box egg

Boxing
Extension for Chicken Scheme
Version 1.3

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1 About this egg

1.1 Version history

- 1.3 Exports
- 1.2 Added MzScheme-like box api, changed references
- 1.1 Added references, different implementation of box
- 1.0 Initial release

1.2 Usage

Load this egg like so:

```
(require-extension box)
```

2 Documentation

This egg is **unsafe**.

2.1 Boxed Values

make-box [procedure]

(make-box [INITIAL-VALUE (void)])

Returns a box with the optional INITIAL-VALUE.

make-box-immutable [procedure]

(make-box-immutable VALUE)

Returns a box with the VALUE. Signals an error upon attempted set.

make-box-variable [macro]

(make-box-variable VARIABLE)

Returns a boxed reference to the variable VARIABLE, which must be in lexical-scope.

box? [procedure]

(box? BOX)

Is it a box?

box-mutable? [procedure]

(box-mutable? BOX)

Is it a mutable box?

box-immutable? [procedure]

(box-immutable? BOX)

Is it an immutable box?

box-variable? [procedure]

(box-variable? BOX)

Is it a boxed variable?

box-set! [macro]

(box-set! BOX VALUE)

Sets the boxed value to VALUE.

box-ref [macro]

(box-ref BOX)

Returns the boxed value.

2.2 MzScheme-Like

Needs (use box-mzs).

box [macro]

(box INITIAL-VALUE)

Returns a box with the INITIAL-VALUE.

box-immutable [macro]

(box-immutable VALUE)

Returns a box with the VALUE. Signals an error upon attempted set.

box-variable [macro]

(box-variable VARIABLE)

Returns a boxed reference to the variable VARIABLE, which must be in lexical-scope.

set-box! [macro]

(set-box! BOX VALUE)

Sets the boxed value to VALUE.

unbox [macro]

(unbox BOX)

Returns the boxed value.

3 License

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