
Screen Saver Functions Reference

[Cocoa > User Experience](#)



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Screen Saver Functions Reference

Framework:	ScreenSaver/ScreenSaver.h
Declared in	ScreenSaverView.h

Overview

This chapter describes functions and function-like macros available in the Screen Saver framework.

Several of the functions produce random values. These make use of the C random number generator, `random()`, which the screen saver framework will automatically seed.

Functions by Task

Random Numbers

[SSRandomIntBetween](#) (page 6)

This function returns a random integer value.

[SSRandomFloatBetween](#) (page 6)

This function returns a random float value.

[SSRandomPointForSizeWithinRect](#) (page 6)

This function returns a random point.

Rectangles

[SSCenteredRectInRect](#) (page 5)

This function returns a rectangle.

Functions

SSCenteredRectInRect

This function returns a rectangle.

```
static NSRect SSCenteredRectInRect (  
    NSRect innerRect,  
    NSRect outerRect  
);
```

Discussion

Returns a rectangle, based on centering *innerRect* within *outerRect*.

Availability

Available in Mac OS X v10.0 and later.

Declared In

ScreenSaverView.h

SSRandomFloatBetween

This function returns a random float value.

```
static float SSRandomFloatBetween (  
    float a,  
    float b  
);
```

Discussion

Returns a random float value between the values *a* and *b*, inclusive.

Availability

Available in Mac OS X v10.0 and later.

Declared In

ScreenSaverView.h

SSRandomIntBetween

This function returns a random integer value.

```
static int SSRandomIntBetween (  
    int a,  
    int b  
);
```

Discussion

Returns a random integer value between the values *a* and *b*, inclusive.

Availability

Available in Mac OS X v10.0 and later.

Declared In

ScreenSaverView.h

SSRandomPointForSizeWithinRect

This function returns a random point.

```
static NSPoint SSRandomPointForSizeWithinRect (  
    NSSize size,  
    NSRect rect  
);
```

Discussion

Returns a random point within *rect*, constrained within $(rect.size - size)$ from *rect*'s origin.

Availability

Available in Mac OS X v10.0 and later.

Declared In

ScreenSaverView.h

Document Revision History

This table describes the changes to *Screen Saver Functions Reference*.

Date	Notes
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

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- SSCenteredRectInRect **function** [5](#)
- SSRandomFloatBetween **function** [6](#)
- SSRandomIntBetween **function** [6](#)
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