

# NSNumber

Inherits From:	NSValue : NSObject
Conforms To:	NSCoding NSCopying NSObject
Declared In:	foundation/NSValue.h

## Allocating and Initializing

- + (NSNumber \*)**numberWithBool:**(BOOL)*value* Creates and returns a number object representing *value* of the type **BOOL**.
- + (NSNumber \*)**numberWithChar:**(char)*value* Creates and returns a number object representing *value* of the type **char**.
- + (NSNumber \*)**numberWithDouble:**(double)*value* Creates and returns a number object representing *value* of the type **double**.
- + (NSNumber \*)**numberWithFloat:**(float)*value* Creates and returns a number object representing *value* of the type **float**.
- + (NSNumber \*)**numberWithInt:**(int)*value* Creates and returns a number object representing *value* of the type **int**.
- + (NSNumber \*)**numberWithLong:**(long)*value* Creates and returns a number object representing *value* of the type **long**.
- + (NSNumber \*)**numberWithLongLong:**(long long)*value* Creates and returns a number object representing *value* of the type **long long**.
- + (NSNumber \*)**numberWithShort:**(short)*value* Creates and returns a number object representing *value* of the type **short**.
- + (NSNumber \*)**numberWithUnsignedChar:**(unsigned char)*value* Creates and returns a number object representing *value* of the type

**unsigned char.**

+ (NSNumber \*)**numberWithUnsignedInt:**(unsigned int)*value*

Creates and returns a number object representing *value* of the type

**unsigned int.**

+ (NSNumber \*)**numberWithUnsignedLong:**(unsigned long)*value*

Creates and returns a number object representing *value* of the type

**unsigned long.**

+ (NSNumber \*)**numberWithUnsignedLongLong:**(unsigned long long)*value*

Creates and returns a number object representing *value* of the type

**unsigned long long.**

+ (NSNumber \*)**numberWithUnsignedShort:**(unsigned short)*value*

Creates and returns a number object representing *value* of the type

**unsigned short.**

## Accessing Data

- (BOOL)**boolValue**

Returns the receiver's value as a boolean value.

- (char)**charValue**

Returns the receiver's value as a character value.

- (double)**doubleValue**

Returns the receiver's value as a double precision floating point value.

- (float)**floatValue**

Returns the receiver's value as a single precision floating point value.

- (int)**intValue**

Returns the receiver's value as a integer value.

- (long long)**longLongValue**

Returns the receiver's value as a long long double precision floating point value.

- (long)**longValue**

Returns the receiver's value as a long double precision floating point value.

- (short)**shortValue**

Returns the receiver's value as a short integer value.

- (NSString \*)**stringValue**

Returns the receiver's value as a string contained in an NSString object.

- (unsigned char)**unsignedCharValue**

Returns the receiver's value as an unsigned character value.

- (unsigned int)**unsignedIntValue**

Returns the receiver's value as an unsigned integer value.

- (unsigned long long)**unsignedLongLongValue**

Returns the receiver's value as an unsigned long long double precision floating point value.

- (unsigned long)**unsignedLongValue**

Returns the receiver's value as an unsigned long double precision floating

- (unsigned short)**unsignedShortValue** point value.  
Returns the receiver's value as an unsigned short integer value.

## Comparing Data

- (NSComparisonResult)**compare:**(NSNumber \*)*other*  
Compares the receiver to *other*, using ANSI C rules for type coercion, and returns an NSComparisonResult.