

XSetICValues, XGetICValues – set and obtain XIC values

```
char * XSetICValues(ic, ...)  
    XIC ic;
```

```
char * XGetICValues(ic, ...)  
    XIC ic;
```

ic Specifies the input context.

... Specifies the variable length argument list to set or get XIC values.

The **XSetICValues** function returns NULL if no error occurred; otherwise, it returns the name of the first argument that could not be set. An argument might not be set for any of the following reasons:

- The argument is read-only (for example, **XNFilterEvents**).
- The argument name is not recognized.
- An implementation-dependent error occurs.

Each value to be set must be an appropriate datum, matching the data type imposed by the semantics of the argument.

The **XSetICValues** can generate **BadAtom**, **BadColor**, **BadCursor**, **BadPixmap**, and **BadWindow** errors.

The **XGetICValues** function returns NULL if no error occurred; otherwise, it returns the name of the first argument that could not be obtained. An argument could not be obtained for any of the following reasons:

- The argument name is not recognized.
- The input method encountered an implementation-dependent error.

Each IC attribute value argument (following a name) must point to a location where the IC value is to be stored. That is, if the IC value is of type T, the argument must be of type T*. If T itself is a pointer type, then **XGetICValues** allocates memory to store the actual data, and the client is responsible for freeing this data by calling **XFree** with the returned pointer. The exception to this rule is for an IC value of type **XVaNestedList** (for preedit and status attributes). In this case, the argument must also be of type **XVaNestedList**. Then, the rule of changing type T to T* and freeing the allocated data applies to each element of the nested list.

BadAtom A value for an Atom argument does not name a defined Atom. **BadColor** A value for a Color-map argument does not name a defined Colormap. **BadCursor** A value for a Cursor argument does not name a defined Cursor. **BadPixmap** A value for a Pixmap argument does not name a defined Pixmap. **BadWindow** A value for a Window argument does not name a defined Window.

XCreateIC(3X11), **XOpenIM(3X11)**, **XSetICFocus(3X11)**, **XmbResetIC(3X11)**

Xlib – C Language X Interface