

**NAME**

**xo\_err**, **xo\_errc**, **xo\_errx** **xo\_warn**, **xo\_warnx**, **xo\_warn\_c**, **xo\_warn\_hc** - emit errors and warnings in multiple output styles

**LIBRARY**

Text, XML, JSON, and HTML Output Emission Library (libxo, -lxo)

**SYNOPSIS**

```
#include <libxo/xo.h>
```

*void*

```
xo_warn(const char *fmt, ...);
```

*void*

```
xo_warnx(const char *fmt, ...);
```

*void*

```
xo_warn_c(int code, const char *fmt, ...);
```

*void*

```
xo_warn_hc(xo_handle_t *xop, int code, const char *fmt, ...);
```

*void*

```
xo_err(int eval, const char *fmt, ...);
```

*void*

```
xo_errc(int eval, int code, const char *fmt, ...);
```

*void*

```
xo_errx(int eval, const char *fmt, ...);
```

**DESCRIPTION**

Many programs make use of the standard library functions `err(3)` and `warn(3)` to generate errors and warnings for the user. **libxo** wants to pass that information via the current output style, and provides compatible functions to allow this.

The *fmt* argument is one compatible with `printf(3)` rather than `xo_emit(3)` to aid in simple conversion. This means these functions make unstructured data. To generate structured data, use the `xo_emit_err(3)` functions.

These functions display the program name, a colon, a formatted message based on the arguments, and then optionally a colon and an error message associated with either *errno* or the *code* parameter.

**EXAMPLE:**

```
if (open(filename, O_RDONLY) < 0)
    xo_err(1, "cannot open file '%s'", filename);
```

**SEE ALSO**

xo\_emit(3), xo\_emit\_err(3), libxo(3)

**HISTORY**

The **libxo** library first appeared in FreeBSD 11.0.

**AUTHORS**

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