

**NAME**

**xo\_attr**, **xo\_attr\_h**, **xo\_attr\_hv** - Add attribute name/value pairs to formatted output

**LIBRARY**

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

**SYNOPSIS**

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

```
xo_ssize_t
```

```
xo_attr(const char *name, const char *fmt, ...);
```

```
xo_ssize_t
```

```
xo_attr_h(xo_handle_t *handle, const char *name, const char *fmt, ...);
```

```
xo_ssize_t
```

```
xo_attr_hv(xo_handle_t *handle, const char *name, const char *fmt, va_list vap);
```

**DESCRIPTION**

The **xo\_attr()** function emits attributes for the XML output style. The attribute value is recorded in the *handle* and is attached to the next field that is emitted via a **xo\_emit(3)** call.

The *name* parameter give the name of the attribute to be encoded. The *fmt* parameter gives a printf-style format string used to format the value of the attribute using any remaining arguments, or the *vap* parameter as passed to **xo\_attr\_hv()**.

**EXAMPLE:**

```
xo_attr("seconds", "%ld", (unsigned long) login_time);
struct tm *tmp = localtime(login_time);
strftime(buf, sizeof(buf), "%R", tmp);
xo_emit("Logged in at {:login-time}\n", buf);
```

**XML:**

```
<login-time seconds="1408336270">00:14</login-time>
```

Since attributes are only emitted in XML, their use should be limited to meta-data and additional or redundant representations of data already emitted in other form.

**SEE ALSO**

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

**HISTORY**

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

**AUTHORS**

**libxo** was written by Phil Shafer <*phil@freebsd.org*>.