XmbTextExtents, XwcTextExtents – compute text extents

```c
int XmbTextExtents(font_set, string, num_bytes, overall_return)
    XFontSet font_set;
    char *string;
    int num_bytes;
    XRectangle *overall_ink_return;
    XRectangle *overall_logical_return;

int XwcTextExtents(font_set, string, num_wchars, overall_return)
    XFontSet font_set;
    wchar_t *string;
    int num_wchars;
    XRectangle *overall_ink_return;
    XRectangle *overall_logical_return;
```

- `font_set` Specifies the font set.
- `num_bytes` Specifies the number of bytes in the string argument.
- `num_wchars` Specifies the number of characters in the string argument.
- `overall_ink_return` Returns the overall ink dimensions.
- `overall_logical_return` Returns the overall logical dimensions.
- `string` Specifies the character string.

The `XmbTextExtents` and `XwcTextExtents` functions set the components of the specified `overall_ink_return` and `overall_logical_return` arguments to the overall bounding box of the string’s image and a logical bounding box for spacing purposes, respectively. They return the value returned by `XmbTextEscapement` or `XwcTextEscapement`. These metrics are relative to the drawing origin of the string, using the fonts loaded for the specified font set.

If the `overall_ink_return` argument is non-NULL, it is set to the bounding box of the string’s character ink. The `overall_ink_return` for a non-descending, horizontally drawn Latin character is conventionally entirely above the baseline; that is, `overall_ink_return.height <= −overall_ink_return.y`. The `overall_ink_return` for a non-kerned character is entirely at, and to the right of, the origin; that is, `overall_ink_return.x >= 0`. A character consisting of a single pixel at the origin would set `overall_ink_return` fields `y = 0`, `x = 0`, `width = 1`, and `height = 1`.

If the `overall_logical_return` argument is non-NULL, it is set to the bounding box that provides minimum spacing to other graphical features for the string. Other graphical features, for example, a border surrounding the text, should not intersect this rectangle.

When the `XFontSet` has missing charsets, metrics for each unavailable character are taken from the default string returned by `XCreateFontSet` so that the metrics represent the text as it will actually be drawn. The behavior for an invalid codepoint is undefined.

`XmbTextEscapement(3X11), XmbTextPerCharExtents(3X11)` Xlib – C Language X Interface