# SVG linearGradient Bug Demo
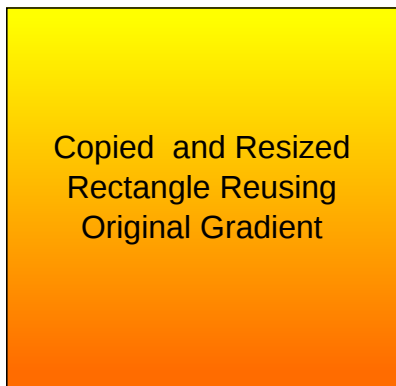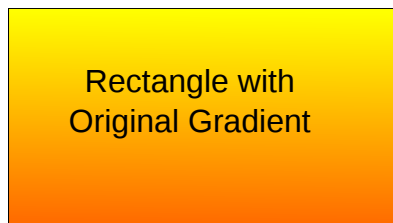
**April 19, 2013**

## Gradient test in SVG drawings

This topic tests for the support of `linearGradient` elements in SVG graphics. We use this to test an XEP bug that we found.
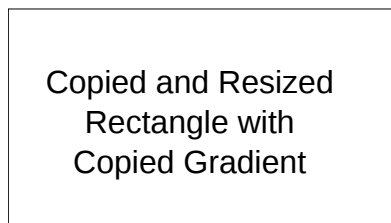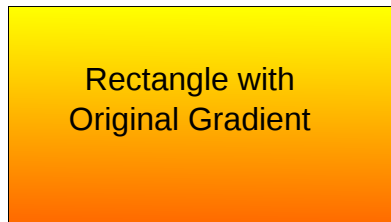
### Drawing with manually reused gradients

In the following drawing, the artist manually reused the same `linearGradient` definition in two rectangles. In this example, the referenced `linearGradient` element happens to occur *before* the definitions of the referencing `linearGradient` elements, so XEP throws no warning and the output is correct.

Rectangle with
Original Gradient

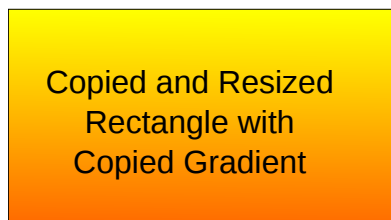Copied  and Resized
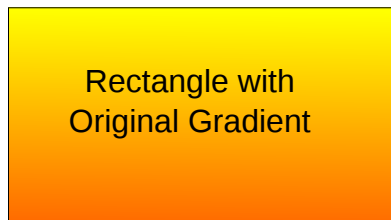Rectangle Reusing
Original Gradient

### Drawing with copied gradients

The following drawing contains separate `linearGradient` elements for the two rectangles. This file demonstrates the standard Inkscape handling of `linearGradient` elements when you copy and paste an object that uses a `linearGradient`. The `linearGradient` in the second rectangle references the definition of the `linearGradient` in the first rectangle. This shouldn't be a problem but XEP doesn't like it when a referencing `linearGradient` definition occurs in the document tree before the referenced `linearGradient` definition. The result is that XEP does not render the gradient in the second rectangle. This is an idiosyncracy of how Inkscape writes the `linearGradient` elements in the SVG document. The SVG Specification does not require that a referenced element, via a `xlink` reference to an IRI, be defined in the SVG document before the referencing element, so the Inkscape construct is legal..

Rectangle with
Original Gradient

Copied and Resized
Rectangle with
Copied Gradient

### Same copied gradient drawing with manually adjusted element order

The following drawing is identical to the previous drawing except the referenced `linearGradient` in the second rectangle was moved in the document tree so it occurred immediately before the referencing `linearGradient` element instead of immediately after it. The result is that XEP throws no warnings and the drawing renders correctly.

Rectangle with
Original Gradient

Copied and Resized
Rectangle with
Copied Gradient

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April 19, 2013, 8:27