

Semper 6 Command Reference

cut

keys:	[from]	<code><number></code>	source picture
	[to]	<code><number></code>	output picture
	size	<code><x>, <y>, <z></code>	dimensions of subregion to be cut
	position	<code><x>, <y>, <z></code>	position of subregion to be cut
	layer	<code><n1>, <n2></code>	range of layers in subregion
	value	<code><number></code>	intensity value for any part of the subregion that lies outside the source image
	mark	<code><number></code> <code><yes or no></code>	mark source subregion
options:	left/right, far/near	bottom/top,	position of subregion in relation to picture border

Use **cut** to extract a subregion from a picture, to cut a rectangular region with one or more layers. Use **paste** to insert a cut region into a picture.

Examples

```
cut 1 2 size 200 top left
```

This command cuts out the top left 200 pixels square of picture 1 as picture 2.

```
xwires region; cut @region to 2
```

This command cuts a region marked with the cursor from the current picture.

```
cut layer 1 to 2
```

This command cuts out the first (back) layer only.

```
cut 1 display size 200 value (max-min/2)
```

This command cuts a subregion of size 200 from picture 1 and gives a grey intensity to any part of the cut subregion that lies outside the image.

Description

Define the region to be cut using the standard subregion keys/options (**size**, **position**, **layers**, **left/right** etc). See *Appendix C, Semper Keys and Options* for further detail of defining a subregion. Note that the **xwires** command can also be used to define a subregion from cursor movements.

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If a subregion exceeds the size of the source picture it is padded with zeros rather than truncated. If you include the source picture origin in the region to be cut, it is recorded as the output picture origin also.

Use the **value** key to define an intensity for part of a cut subregion that does not contain an image. The diagrams below illustrate this concept. *Diagram 1* shows a subregion that is to be cut. The shaded part of the subregion is the area that does not contain an image and can be given an intensity value. *Diagram 2* shows the resulting cut image.

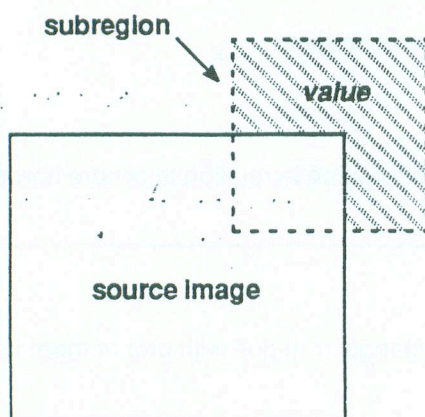


Diagram 1

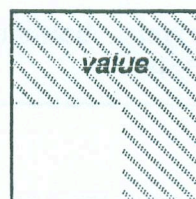


Diagram 2

Notes

display marking:
multi-layer pictures:
forms used internally:
see also:

region cut
fully supported
integer, fp, complex
extract (for rotation and shear operations)
magnify (for scaling)
paste (to paste a cut region into another picture)

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Defaults and Ranges

keys/options	defaults	range
[from]	current picture, held in the variable <i>select</i>	valid picture number
[to]	source picture	valid picture number
size	whole picture	less than or equal to size of picture (integers)
position	position 0,0,0	within bounds of picture (integers)
layer	all layers unless <i>si3/po3</i> set	integers in range 1 to number of layers
value	intensity 0	real number
mark	mark off	see <i>Appendix C</i>