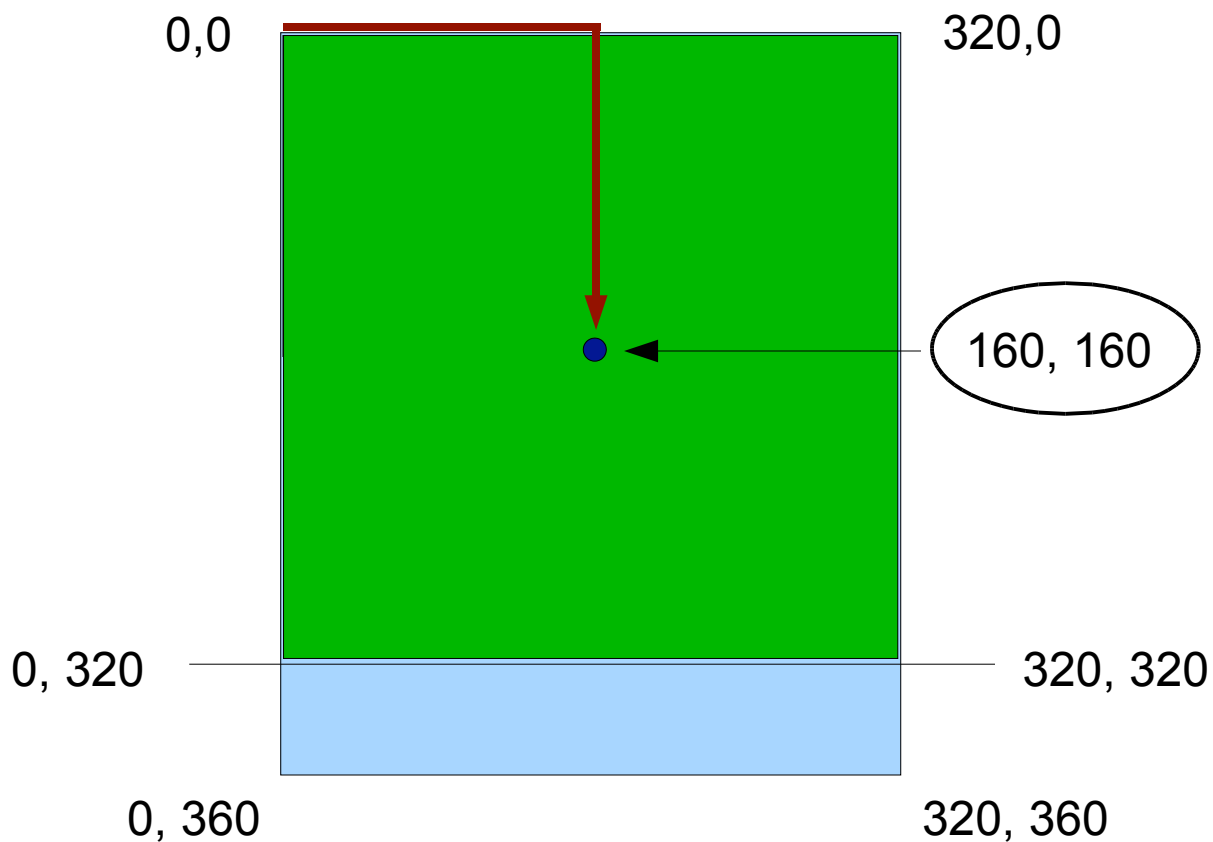


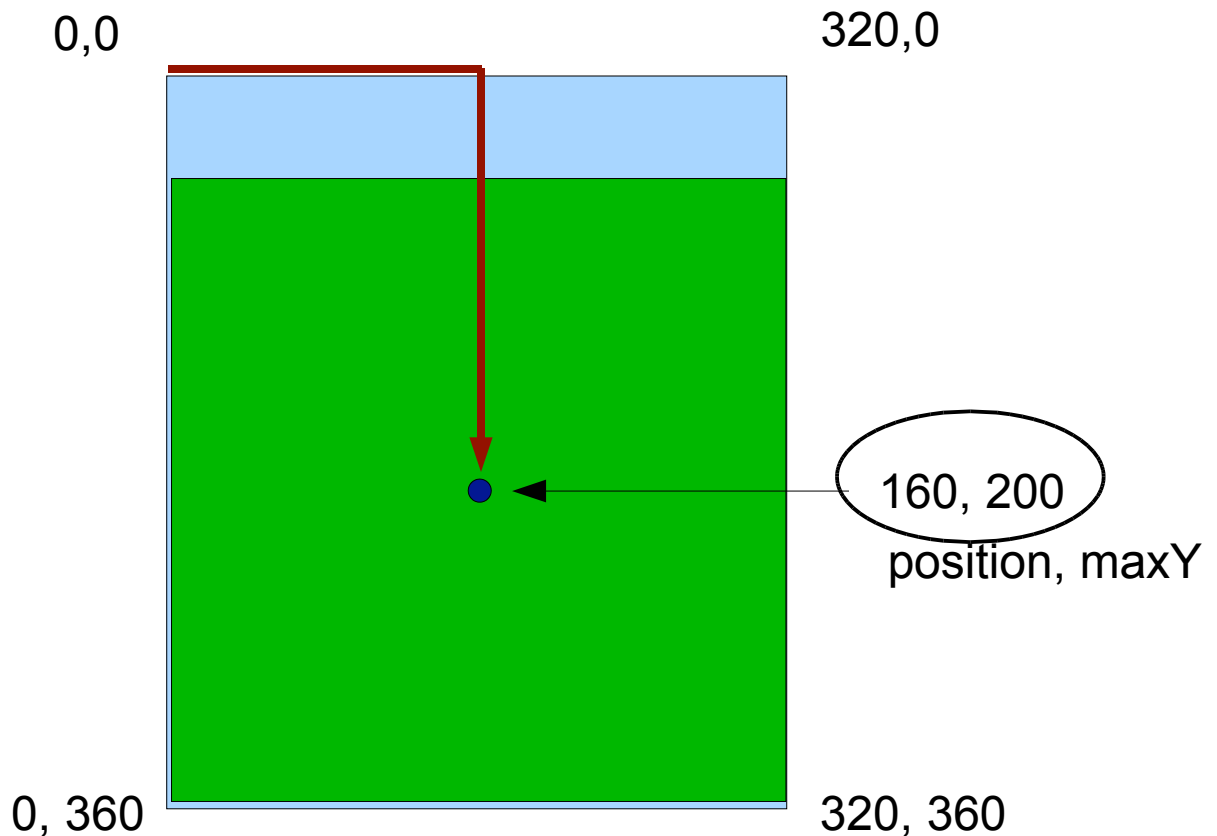
The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



The green square is our image and the blue rectangle behind it is the screen. The image is square and is as wide as the screen, but not as tall. The screen is 320 wide by 360 pixels high, with the origin in the upper left corner.

Here the image is 320 by 320 pixels, justified against the top of the screen. The position is where the middle of the image is located within the blue rectangle. The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.

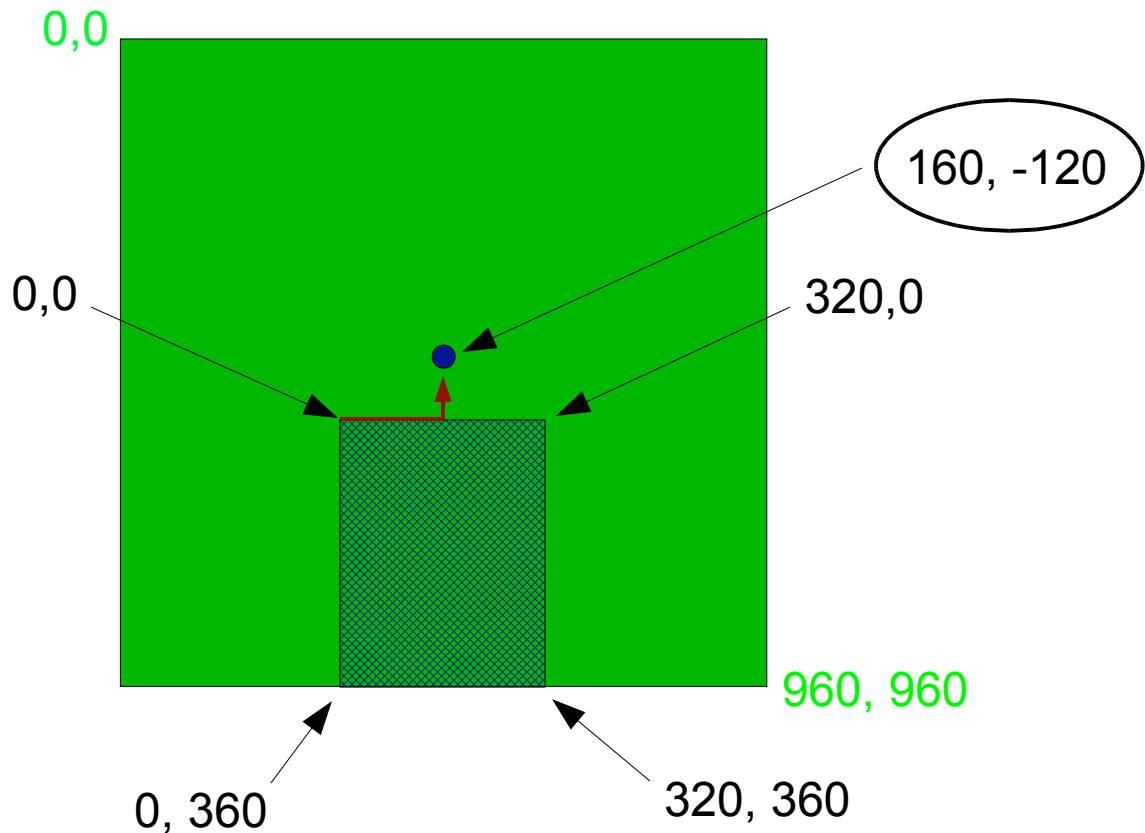
The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



Here the image is still 320 by 320 pixels, but now it is justified against the bottom of the screen. The position is still where the middle of the image is located within the blue rectangle, but for the image to be against the bottom of the screen, it had to move downward 40 pixels.

The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.

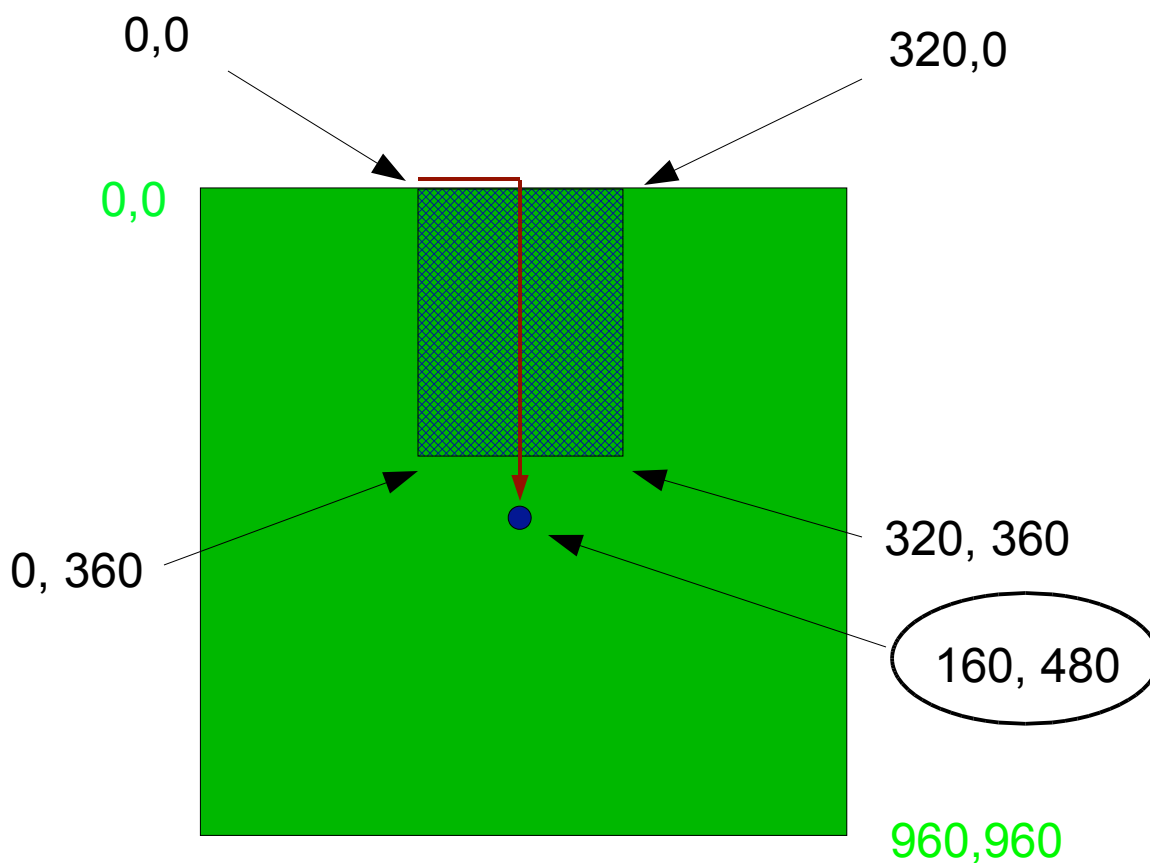
The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



Here the image has been tripled in size, to 960 by 960 pixels. It is still justified against the bottom of the screen, but of course now it is too big to fit on the screen. The position is still where the middle of the image is located within the coordinate system of the blue rectangle, but for the image to be against the bottom of the screen, the position had to move 120 pixels above the blue rectangle, into the negative side of the Y axis. However, because the image is still centered over the blue rectangle on the X axis, it is still at 160 on the X axis.

The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.

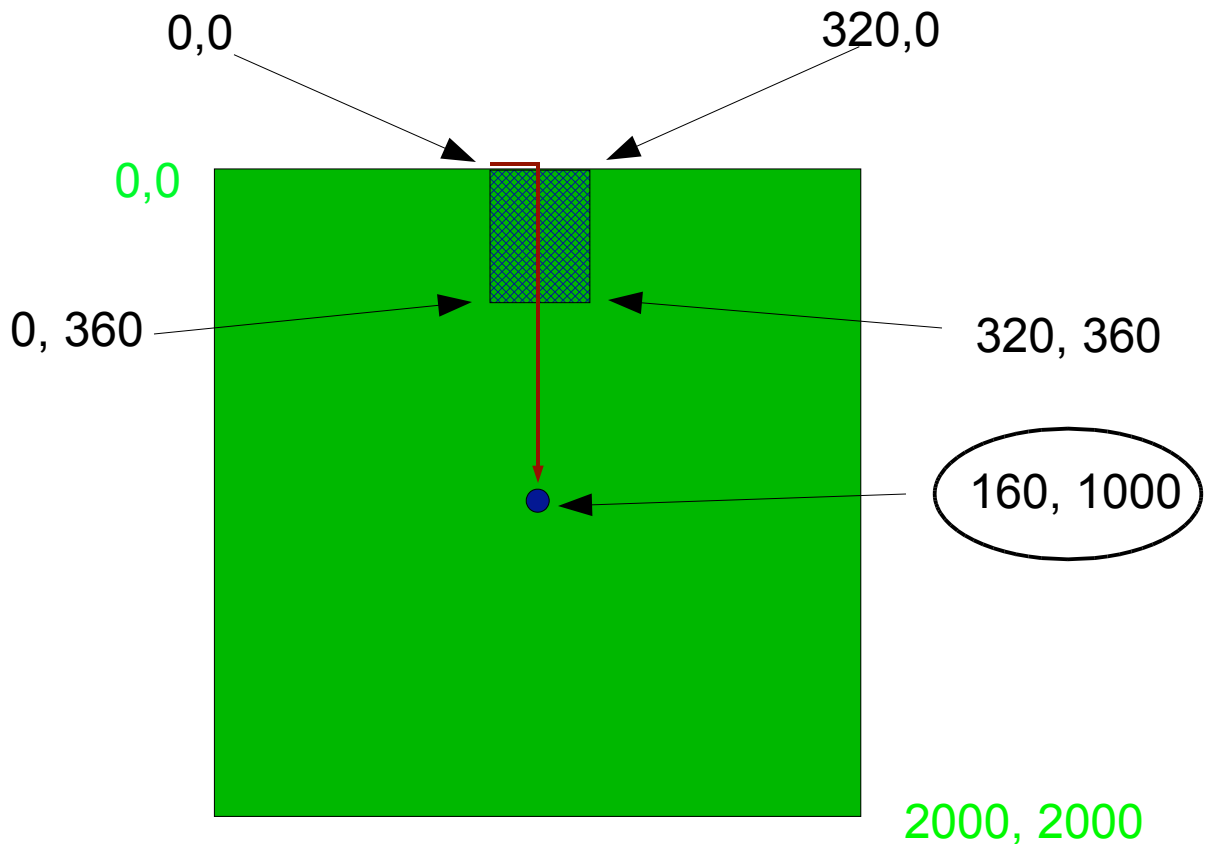
The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



Here the image is still 960 by 960 pixels. But now it is justified against the top of the screen. The position is still where the middle of the image is located within the coordinate system of the blue rectangle, but for the image to be against the top of the screen, the position had to move 120 pixels below the bottom of the blue rectangle, so that it is at  $y=480$ .

The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.

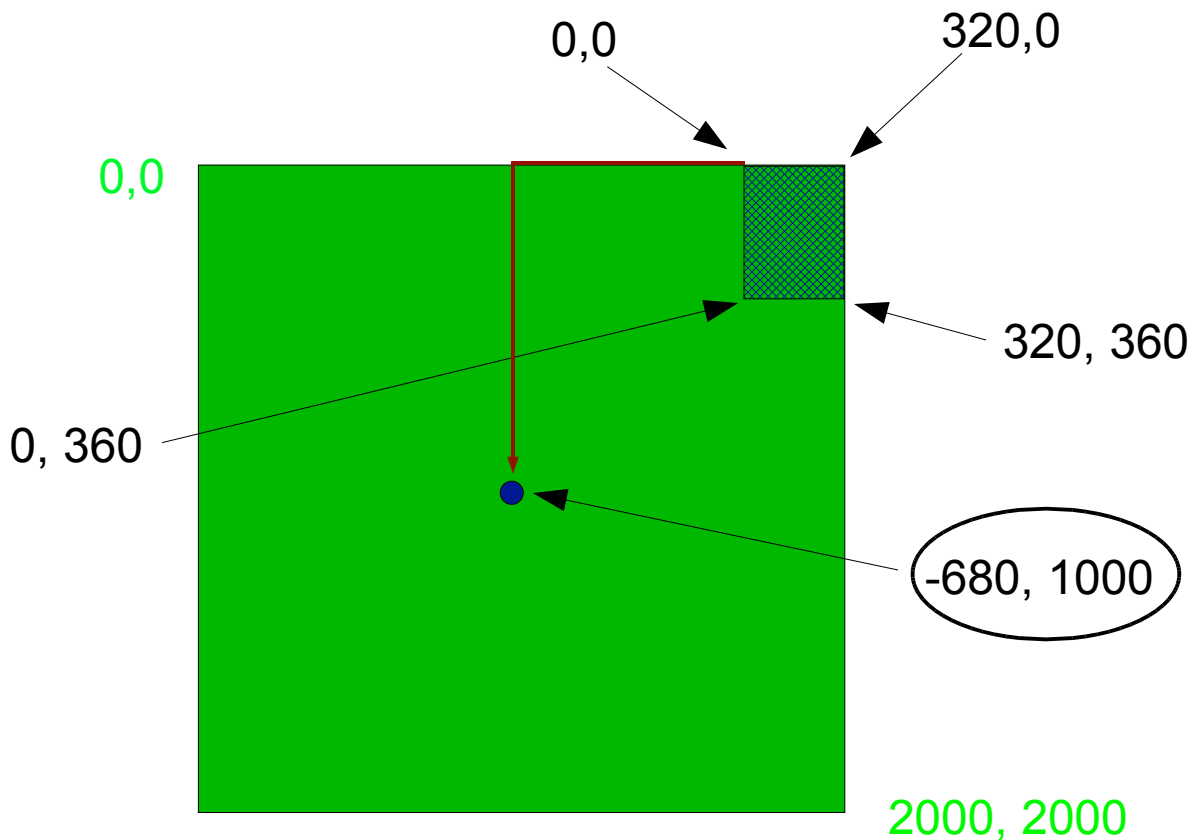
The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



Here the image is 2000 by 2000 pixels. It is still justified against the top of the screen. The position is still where the middle of the image is located within the coordinate system of the blue rectangle, but for the image to be against the top of the screen, the position had to move 640 pixels below the bottom of the blue rectangle, so that it is at  $y=1000$ .

The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.

The position of a layer (blue dot in the green square) is always within the coordinate system of its parent (light blue rectangle).



Here the image is still 2000 by 2000 pixels. It is still justified against the top of the screen, but now it is also justified against the right side of the screen. The position is still where the middle of the image is located within the coordinate system of the blue rectangle, but for the image to be against the right side of the screen, the position had to move 680 pixels left the left edge of the blue rectangle, so that it is at  $x=-680$ .

The red lines show the route from the origin of the blue rectangle to the position, so you can see what the coordinates of the position actually mean.