**stretch**

Function of expansion/compression of objects relative to a preset point with defined coefficients.

**Syntax:**

**stretch**(*P*, *S*, *name1, name2,…, namen*);

**Arguments:**

*P* – coordinates that set the point to the center for expansion/compression of objects. Type – *point*,

*S* – vector defining coefficients of expansion/compression of objects,

*name1, name2,…,namen* – object names.

**Description:**

*scale(P, S, name1, name2,…, namen) –* function of scaling of objects on the diagram named as *name1, name2,…,namen* relative to the center set by coordinates *P* with coefficients defined by vector *S.*

*S* – variable of *point* type, where *x* is coefficient of expansion/compression over X-axis, *y* is coefficient of expansion/xompression over Y-axis.

*P, S* input values can be set as pre-defined variables or be set by expression (*x, y)*, where *x* and *y* are for the point coordinates.

**Result:**

None*.*

**Example:**

|  |  |
| --- | --- |
|  | **var** oldfl: **boolean**;  **var** p:**point** = (10,0);  **var** s:**point** = (1.5,0.5);  **if paintstep then begin**  fl = **flash**(500);  **if** fl <> oldfl **then begin**  **stretch**(p, s, FillRect, FillCircle)**;**  **end**;  oldfl = fl;  **end**; |

Execution of this example results in expansion of objects named as *FillRect* and *FillCircle* with 500 ms period with coefficient 1.5 over X-axis and their compression with coefficient 0.5 over Y-axis relative to the center preset by a point with coordinates (10.0).