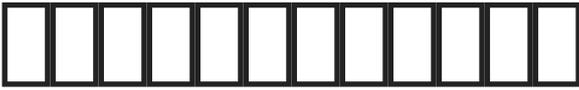




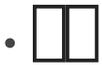
- ?????????????
- ?? Legend
- ??? Coord
- ?????? Transform
- ??? Scale
- ??? Axis
- ? Geom



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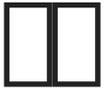


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- ?? , ?? ????80 ,60?
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# Legend



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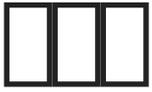
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# Coord



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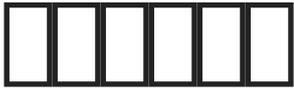
- ??????? ??? 0 ~ 1 ?

- ??????X ? Y ???????reflect?

- X
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- ??????X??Y? ???? false?

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# Transform



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# Scale



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## ???. Scale - ???

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linear	?????	[1,2,3,4,5]
log	??????Log??	? [1,10,100,1000] ??? [0,1,2,3]
power	??????pow??	? [2,4,8,16,32] ??? [1,2,3,4,5]
cat	??	['?', '?']
time	????????	????
timeCat	????????	????



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??0 ~ 1 ???? 0,1 ?????0.2~0.8

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• log??

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◦ YYYY ???????

◦ MM ??? , 01 ~ 12?4?M = ????? , 3?M = ?????

- DD ??? ,01 ~ 31 ?
- ddd ??? , ? ~ ??4?d = ????, 3?d = ??????
- HH ??? , 0 ~ 24?
- mm ??? , 0 ~ 59?
- ss ??? , 0 ~ 59?
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???YYYY-MM-DD(ddd)  
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# Axis



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# Geom



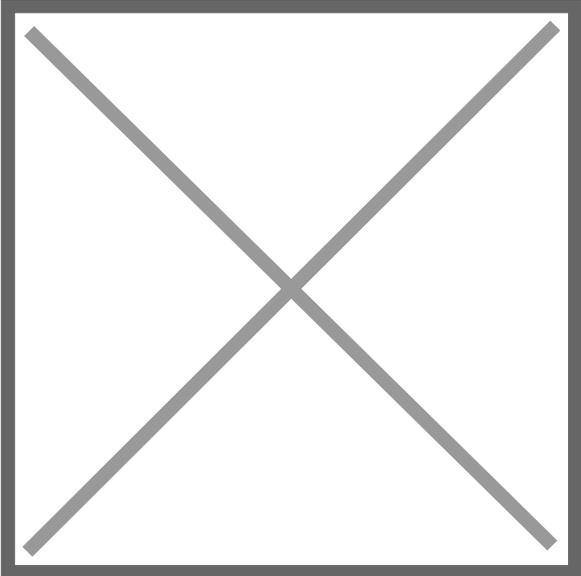
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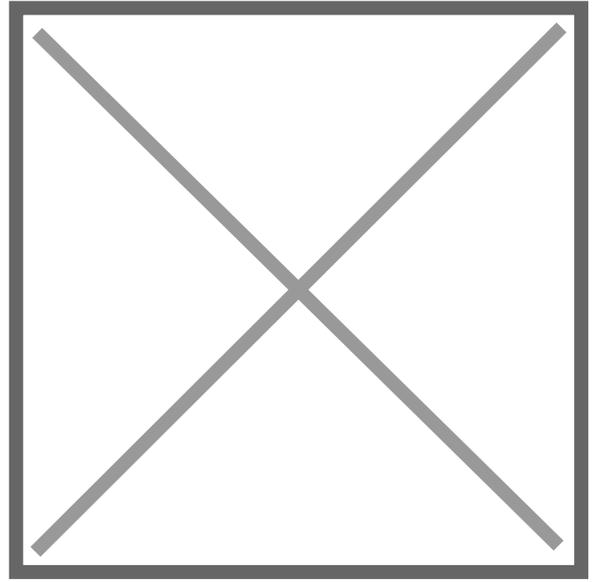
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- ???, X??Y???????
- ?????, ??????
- ???number\*name

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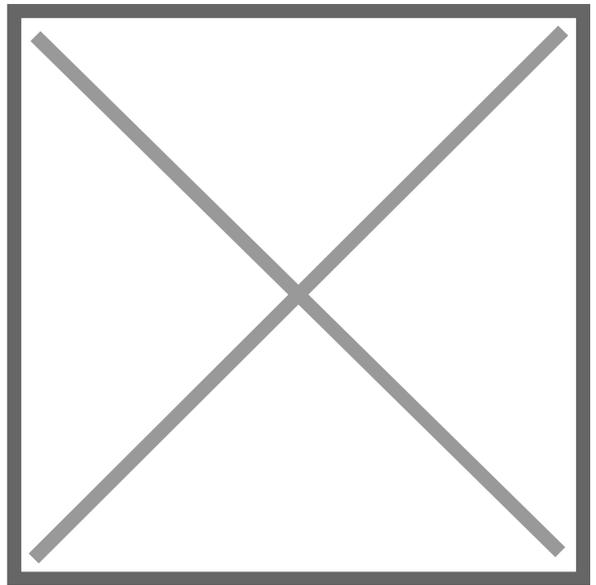
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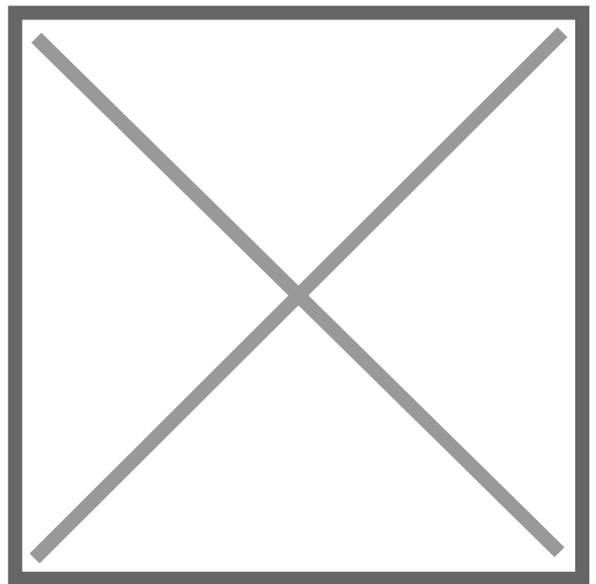
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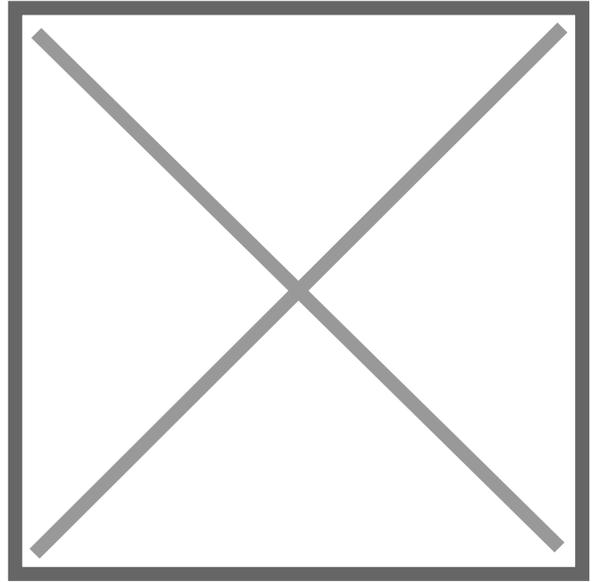


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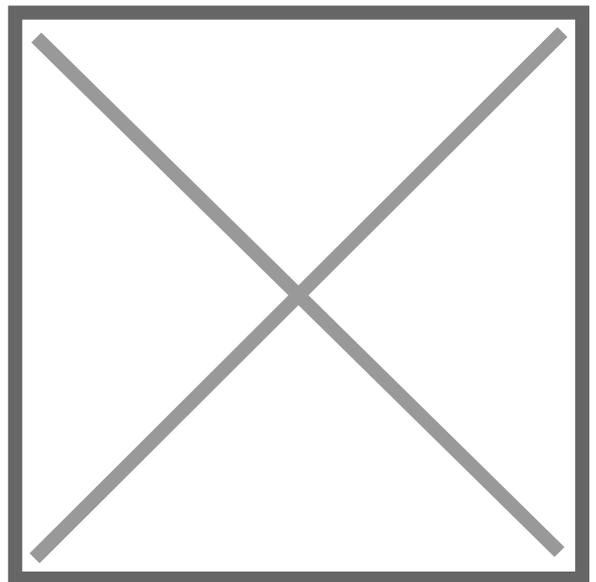
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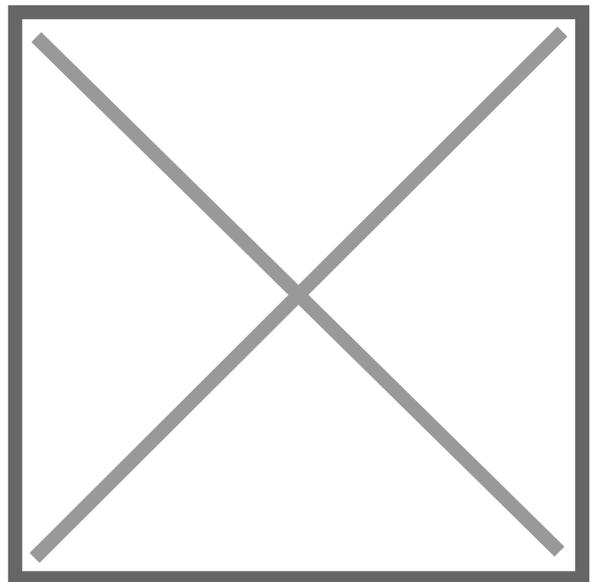
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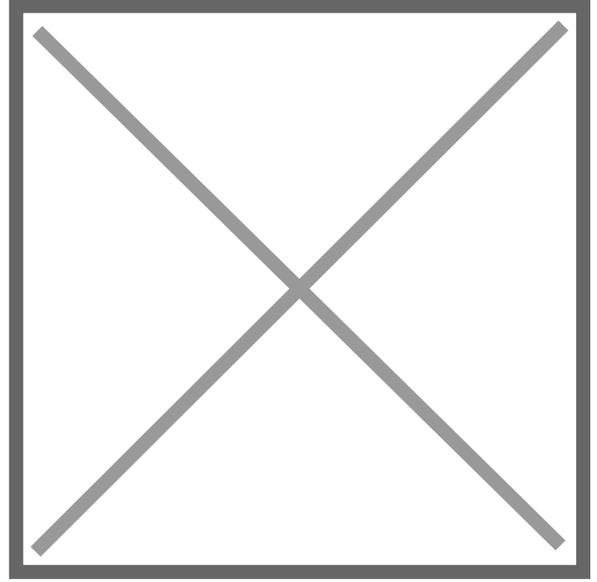
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circle,square,diamond

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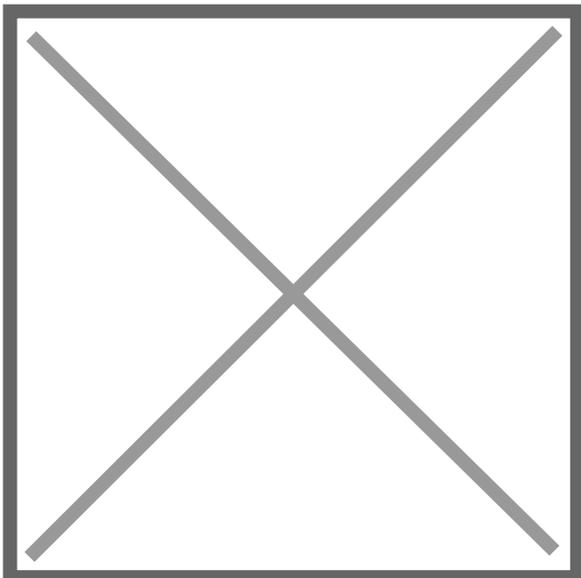
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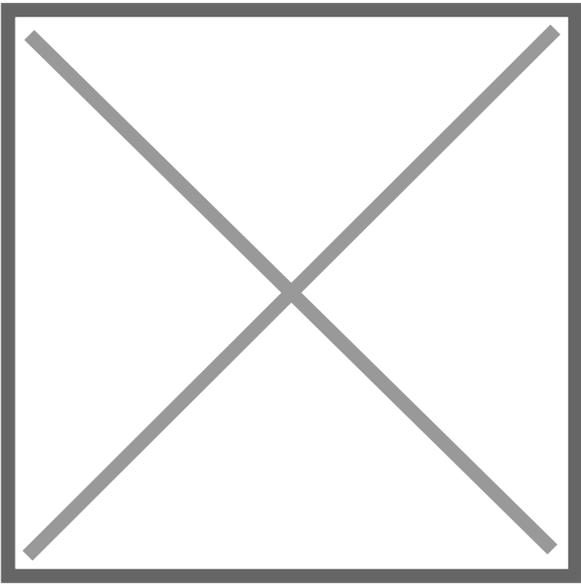
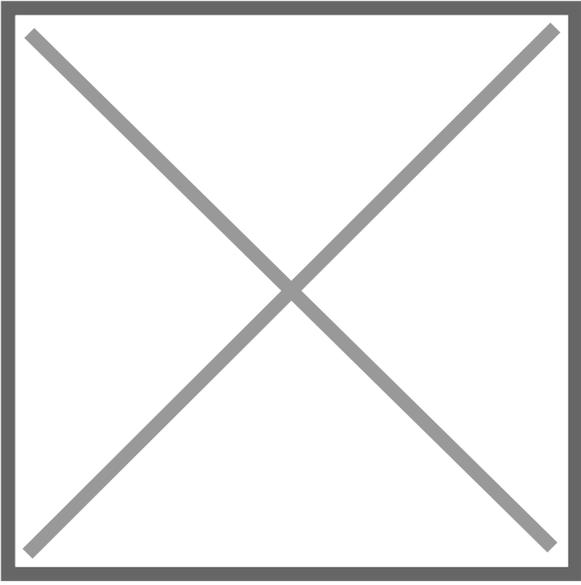


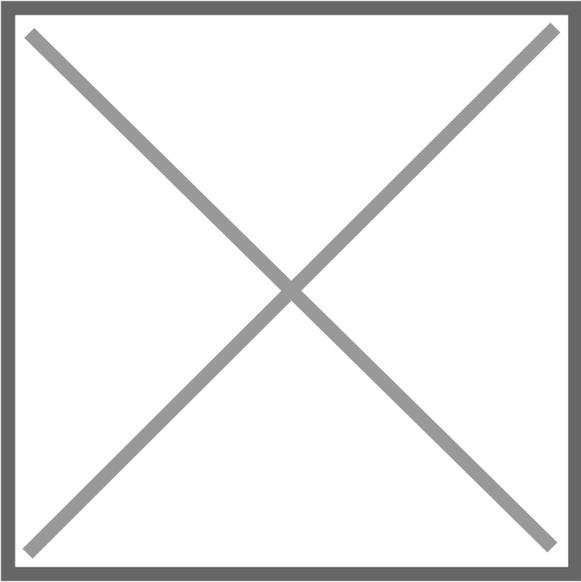
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• **DodgeRatio**????? - ??????

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