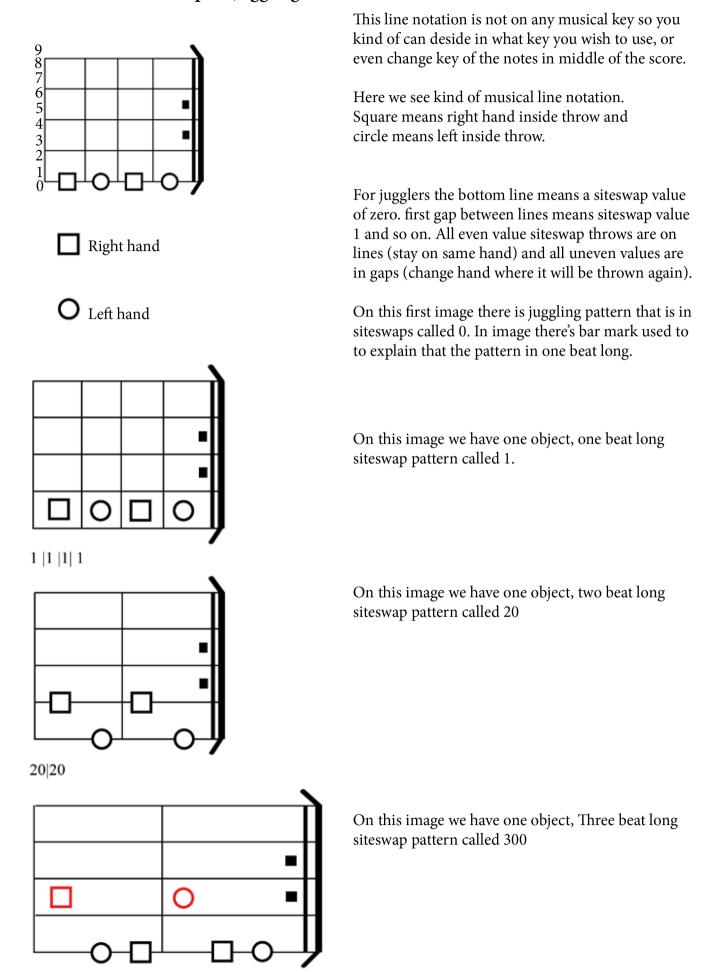
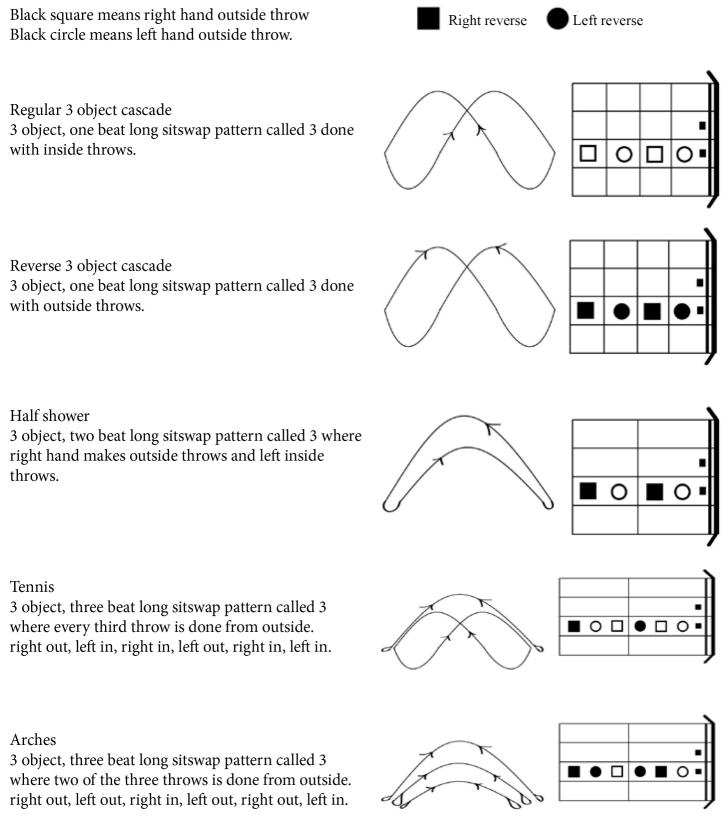
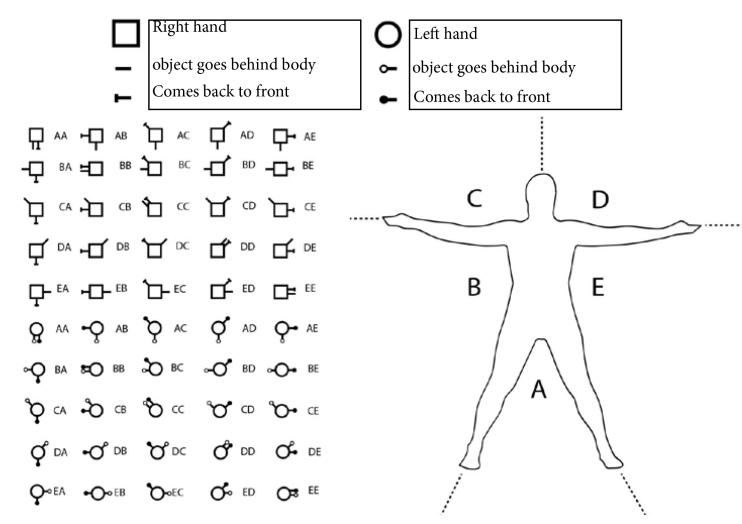
## Short introduction to Graphic Juggling Notation

300|300





More examples of this kind of patterns in appendix.

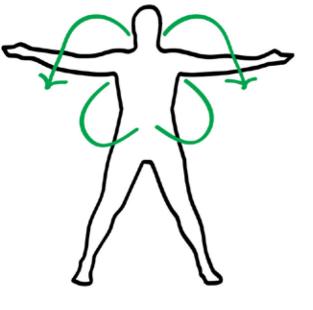


Here's all the simple bodythrow routes around human body where thrown object goes one round around jugglers body. (goes behind it and comes back to front)

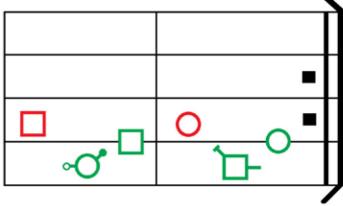
Few examples of symbols used when object goes two rounds around jugglers body

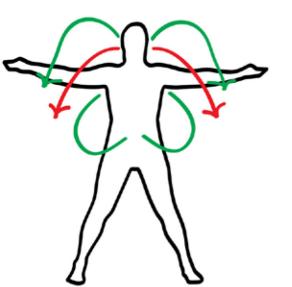
- 2nd. time object goes behind body from right hand 2nd. time object comes back to front from right hand

- 2nd. time object goes behind body from left hand 2nd. time object comes back to front from left hand
- ఇం విర్మాస్త్రా ఇం

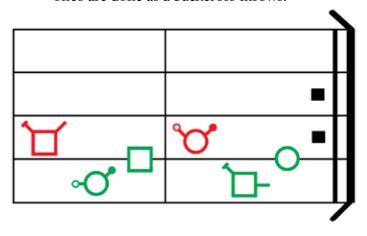


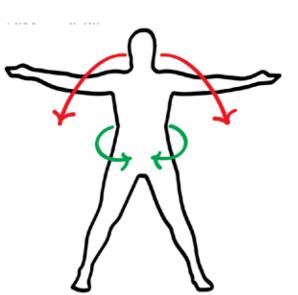
Here is a two object siteswap pattern 312 where the one's are done as a backcross throws.



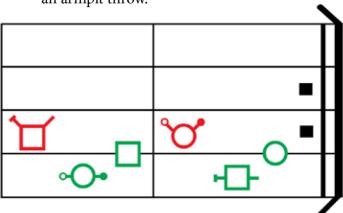


Here is a two object siteswap pattern 312 where the three's are done as behind the neck throws and the one's are done as a backcross throws.

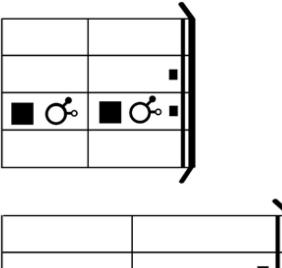




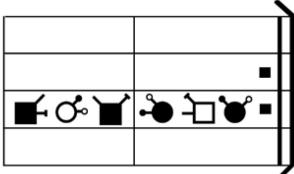
Here is a two object siteswap pattern 312 where the three's are done as behind the neck throws and the one's are done as an exchange behind the back or as an armpit throw.



More examples of this kind of patterns in appendix.



Windmill pattern: Two beat long 3 object siteswap pattern 33 where right hand throws outside throws and left hand throws under arm throws under right arm.

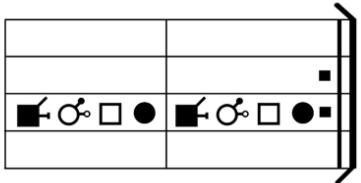


Mill's Mess' pattern: 3 beat long 3 object siteswap pattern 333 3 right hand throws outside throw that is caught by

left hand under the right.

3 left hand throws under arm throws under right

3 right hand throws from over the left hand to be caught with left hand over the right. then the same with oppsotie hands.



Half mess pattern: 4 beat long 3 object siteswap pattern 3333 3 right from outside to be caught with left under

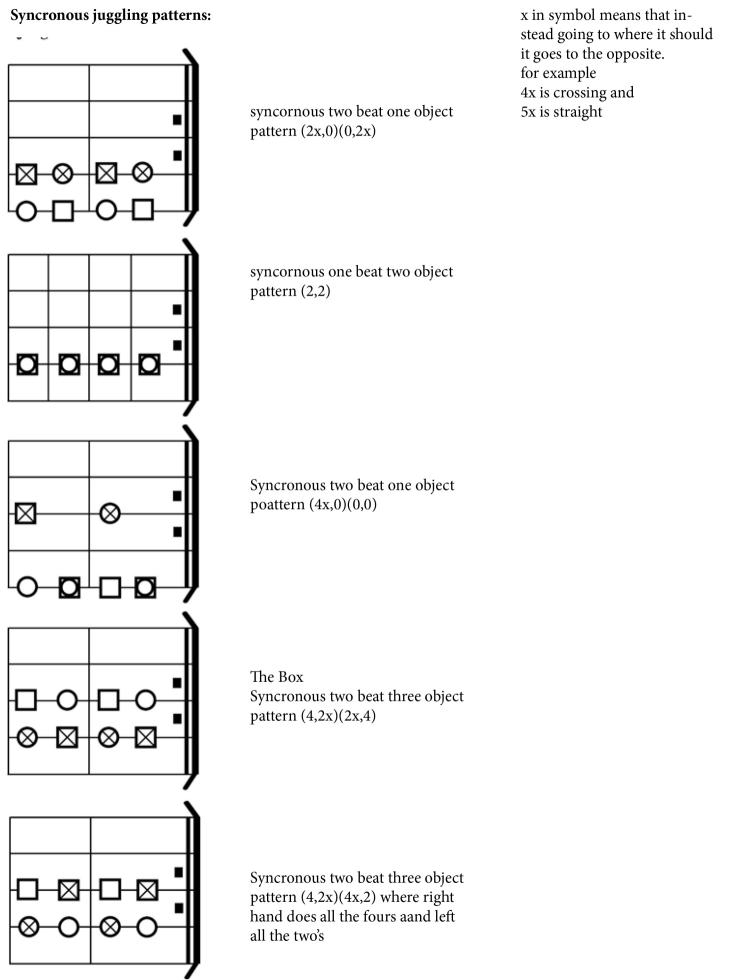
right 3 left from under right arm

3 right inside throw

arm.

3 left outside throw

More examples of this kind of patterns in appendix.



## Multiplex juggling patterns: two beat, two object multiplex pattern [21]1 where right hand throws throws 2 and 1 at the same moment and then left throws 1 back to right. Two beat, 5 object, syncronous multiplex pattern ([4x,4],2)(2,[4,4x])where right hand throws throws 4x and 4 at the same moment when left throws 2, Then on next beat left hand throws throws 4x and 4 at the same moment when right throws 2 Four beat, five object, multiplex pattern 4[2222]0[2222] right straight throw 4 left holds 4 objects in hand [2222] right hand is empty 0 left holds 4 objects in hand [2222] Three beat, two object multiplex pattern [33]00 right throws two objects at the same time as 3 and 3 left hand is empty, right hand is empty, left throws two objects at the same time as 3 and 3 0 回 right hand is empty, left hand is empty, Three beat, 5 object multiplex pattern [5,4]24

## All possible symbols needed in async, syncronous, multiplex, and syncronous multiplex patterns. Right hand Right reverse / outside throw synch pattern, right throws crossing throw synch pattern, right throws crossing outside/reverse throw Sync throw, both hands same siteswap value, right straight throw, left crossing (ends in squeeze catch?) sync throw, both same siteswap value, right outside straight throw, left crossing (ends in squeeze catch) Synch throw, both hands same sitswap value, right normal straight, left outside crossing Synch throw, both hands same siteswap value, inside throws Synch throw, both hands same siteswap value, right throws outside, left regular inside throw Synch throw, both hands same siteswap value, outside throwsthrows Multiplex from right, same siteswap value, other object crossing other straight 20bject Multiplex right hand, other object crossing inside, other outside to same hand. 20bject multiplex right hand, same siteswap value, other object crossing reverse throw, other regular to same hand 2object multiplex throw from right, same siteswap value, both regular 20bject multiplex throw from right, same siteswap value, other outside, other regular Left reverse / outside throw Left

Synch pattern left crossing to right

sync pattern, left outside crossing throw

Synch pattern both same siteswap value, both crossing

Synch pattern, both hands same siteswap value, left straight throw, right crossing

Synch pattern, both same sitswap value, left outside throw, right regular crossing Sync pattern both hand same siteswap value, left straight, right outside crossing

Synch pattern, same siteswap value, right regular straight throw, left outside throw

20bject Multiplex left hand, other object crossing inside, other outside to same hand.

20bject multiplex left hand, same siteswap value, other object crossing reverse throw,

Synch pattern, same siteswap value, both outisde crossing throws

2 object multiplex throw from left, same siteswap value, both regular

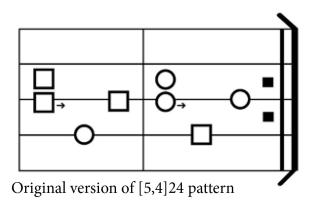
2object multiplex throw from left, same siteswap value, other outside, other

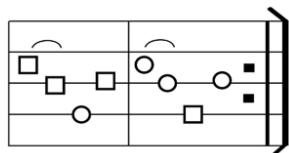
Multiplex from left, same siteswap value, other object crossing other straight

## shortly about how to translate multiplex pattern in to polyrhytmic???? pattern

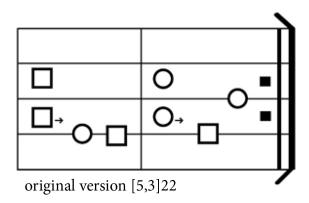
As juggling notations are rerally stright about alternating hands and also real life juggling is quite limited to that. But with graphic juggling notation it is easy to show how to break down multiplex throws in to separate throws. When normal we would be juggling right, left right, left and so on. Now we break multpiplex throw in like right right, left, right. That during the one beat there is two separate throws instead of one.

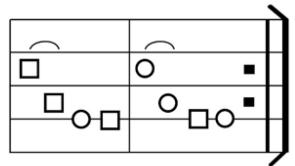
as for notation there's arch linking these symbols together.





polyrhytmic version:
Fast Right 5 following Right 4
Left holds a 2
Right trhrows 4
Fast left 5 following left4
right holds a 2
left trhrows 4





polyrhytmic version:
Fast Right 5 following Right 3
Left holds a 2
Right holds a 2
Fast left 5 following left 3
right holds a 2
left trhrows 2

Here is minimalistic juggling/music piece we have been performing in Performance titled: Manifesti, it has been performed by two performers with 2 juggling balls and ukulele.