

Staggered Symmetric Passing Patterns for 2 jugglers

In all the patterns below both jugglers do the same thing but at different times. The patterns are notated using a simple extension of siteswaps which involves placing a p next to a passed throw. So for example the pattern we call 22p11 would have a full notation:

< 2 2p 1 1 | 1 1 2 2p >

Where juggler 1 does 2 2p 1 1 whilst the other juggler does 1 1 2 2p. But since juggler 2 does the same as juggler 1, staggered by half the length of the pattern only one jugglers role is shown.

The passes are colour coded based on the Gandini Classification of Prechac generated patterns. There are 4 kinds of passes, 2 in even period patterns and 2 in Odd period patterns.

Even Period Patterns:

Classic passes are colour coded in **blue**. **Classic** passes can be juggled with all the passes going from one juggler's right to the other juggler's left. They are called **classic** because they are the most commonly juggled patterns. Both **7 clubs 2 count** and **7 tripple singles** are classic.

Equihanded passes are colour coded in **red**. **Equihanded** means the hand that passes is the hand that receives, so only one hand is involved in catching and passing the pass.

Odd Period Patterns:

Bi passes are colour coded in **Purple**. They can be juggled with one juggler throwing all passes straight and the other juggler throwing all passes crossed. **The pass leaves from the hand that did not receive the pass.**

Instant-Bi passes are colour coded in **Green**. They are very similar to **Bi** passes, they can also be juggled with one juggler throwing all passes straight and the other juggler throwing all passes crossed. The main difference is that **the hand that passes is the hand that received the pass.**

	Classic
	Equihanded
	Bi
	Instant Bi

Colour coding

	Period of the Transformed Siteswap	Transformed by adding or subtracting half the period to one of the Siteswap's digits
Classic Passes	Even Period	+ or - Odd Digit
Equi Passes	Even Period	+ or - Even Digit
Bi Passes	Odd Period	+ Odd Digit or - Even Digit
Instant Bi Passes	Odd Period	+ Even Digit or - Odd Digit

Period 5
Pass x 3
Self x 2

7 objects

5.5p14.5p24.5p	524.5p1.5p4.5p	555p033	54p4134	5p54p23p2	552p3p3p3	54p4p33p2	5p34p423p	52p52p3p4
5.5p144.5p2.5p	522.5p3.5p4.5p	554p502	54p2451	554p2p3p2	5p523p33p	54p41p52p	53p4p4p23	5p25p234p
5.5p143.5p3.5p	514.5p2.5p4.5p	55p4502	54p2352	554p2p32p	5p5p225p2	5p44p15p2	534p41p4p	5252p3p4p
5.5p133.5p4.5p	513.5p3.5p4.5p	55p4403	54p2334	5p54p14p2	552p2p52p	54p4p15p2	5p34p414p	5p2523p4p
5.5p124.5p4.5p	4.5p4.5p4.5p31	554p403	5p35350	554p1p42p	5p5p2234p	54p41p3p4	5p3p44p14	5p2514p4p
5.5p11.5p4.5p5	4.5p4.5p4.5p22	55p4133	5p35314	5p5p414p2	552p2p3p4	54p4p134p	53p44p1p4	52p4p4p42
5.5p054.5p2.5p	4.5p4.5p44.5p0	554p133	5352p51	5p54p133p	5p515p3p2	5p44p134p	53p4p342p	52p4p442p
5.5p053.5p3.5p	4.5p4.5p43.5p1	553p404	5p35251	554p1p3p3	5p514p4p2	54p2p4p51	53p43p42p	5p244p4p2
5.5p04.5p4.5p3	4.5p4.5p422.5p	5p53404	5p35224	5p5p4133p	5p5143p3p	54p2p4p24	5p343p4p2	5p244p33p
5.5p04.5p43.5p	4.5p4.5p413.5p	553p152	5p34504	553p43p1p	5p514p33p	54p242p4p	5p34p34p2	52p4p4p33
5.5p02.5p4.5p5	4.5p4.5p33.5p2	5p53152	5p34450	5p5p34p31	54p52p5p1	54p2p352p	5p343p33p	52p4p43p3
554.5p1.5p1.5p	4.5p4.5p332.5p	5p53134	5p33451	553p4p31p	54p54p21p	54p23p5p2	53p43p3p3	5p2443p3p
553.5p1.5p2.5p	4.5p4.5p24.5p2	553p134	5p33352	553p4p3p1	5p453p3p1	5p423p5p2	5p34p333p	5p234p34p
552.5p3.5p1.5p	4.5p4.5p233.5p	552531p	5p33334	553p4p3p1	54p533p1p	54p23p34p	53p4p33p3	52p3p43p4
552.5p2.5p2.5p	4.5p44.5p31.5p	55p2531	525144p	5p5p343p1	54p53p3p1	5p423p34p	53p42p52p	5p2343p4p
54.5p4.5p1.5p2	4.5p44.5p2.5p2	55p2522	52p5144	553p4p2p2	54p5p3p31	54p2p33p4	5p34p25p2	52p3p4p34
54.5p41.5p2.5p	4.5p443.5p1.5p	55252p2	5244p33	5p5p34p22	54p532p2p	5p414p5p2	534p2p34p	523p4p34p
54.5p2.5p3.5p2	4.5p442.5p2.5p	552p504	52443p3	553p4p2p2	54p53p22p	54p1p4p52	5p34p234p	523p43p4p
54.5p2.5p32.5p	4.5p43.5p3.5p2	5p52450	52p2444	553p42p2p	5p45p3p22	54p14p5p2	53p42p3p4	52p2p4p44
54.5p2.5p14.5p	4.5p43.5p32.5p	552441p	5144p34	5p5p3404p	5p453p04p	54p1p452p	5p3p423p4	5p2244p4p
54.5p21.5p4.5p	4.5p41.5p3.5p4	5p52414	51443p4	553p404p	54p53p04p	54p143p4p	5p34p14p4	522p4p44p
54.5p1.5p42.5p	4.5p344.5p1.5p	55241p4	444441p	553p3p3p2	54p512p4p	54p1p4p34	53p4p144p	514p43p4p
54.5p1.5p3.5p3	4.5p342.5p3.5p	55p2333	44442p3	553p3p32p	5p45p05p2	54p14p34p	534p1p44p	514p4p34p
54.5p03.5p4.5p	4.5p33.5p4.5p2	5p52252	4443p33	5p5p333p2	54p5p05p2	54p1p43p4	53p3p4p51	4p444p41p
53.5p4.5p31.5p	4.5p33.5p33.5p	5p52234	444p333	553p3p3p2	54p5p034p	5p414p34p	5p3p34p51	4p444p4p1
53.5p4.5p2.5p2	4.5p2.5p4.5p24	5522p34		5p533p3p2	54p503p4p	5p4143p4p	5p3p42p4p	44p444p1p
53.5p4.5p04.5p	4.5p2.5p33.5p4	552p153		5p5p315p2	54p503p4p	53p5p3p41	5p3p34p24	44p444p1p
53.5p43.5p1.5p	4.5p243.5p3.5p	552p144		553p1p52p	54p4p43p1	5p353p4p1	53p3p4p24	44p442p3p
53.5p42.5p2.5p	4.5p1.5p43.5p4	55153p2		553p1p3p4	5p44p43p1	53p5p3p23	5p33p3p52	4p44p4p23
53.5p3.5p3.5p2	43.5p42.5p3.5p	551532p	5p5p55p01	553p1p3p4	5p44p43p1	5p353p23p	53p3p5p2	44p4p423p
53.5p3.5p32.5p		5514p33	5p5p54p11	5p5p3134p	54p443p1p	5p353p14p	53p3p352p	44p442p3p
53.5p3.5p14.5p		55143p3	5553p1p2p	55p3p134p	54p443p1p	5p3p5p314	5p3p333p4	44p43p4p2
53.5p22.5p4.5p		5504p52	5p55p3p12	5p5p25p31	54p44p3p1	5p3p5p251	5p333p34p	4p44p342p
53.5p1.5p52.5p		550452p	5p5p523p1	552p53p1p	5p44p4p31	5352p2p4p	53p3p33p4	4p443p42p
53.5p1.5p3.5p4		5504p34	5p5p5p222	552p52p2p	5p44p4p22	5p3p5p224	53p3p5p24	44p4p34p2
53.5p13.5p4.5p		55043p4	5552p2p2p	5p5p25p22	54p442p2p	5p34p5p31	532p52p4p	44p4p333p
533.5p1.5p4.5p		5p45304	5p5p515p0	552p4p41p	54p44p4p22	53p4p53p1	53p252p4p	44p43p33p
532.5p2.5p4.5p		54p5304	5p5p514p1	5p5p244p1	54p44p2p2	53p453p1p	53p23p44p	4p443p3p3
52.5p52.5p2.5p		5p45151	5p5p5123p	552p4p2p3	54p4p422p	53p452p2p	5p3p234p4	4p44p33p3
52.5p4.5p41.5p		54p5151	5p5p5114p	552p4p1p4	5p44p404p	5p34p5p2p	532p3p44p	4p34p34p3
52.5p4.5p2.5p3		54p5124	5p54p4p12	5p5p2414p	54p4p332p	53p4p522p	53p14p44p	4p34p343p
52.5p4.5p1.5p4		5p45124	554p41p2p	5p523p4p2	54p43p32p	53p4p4p41	53p1p4p44	43p4p34p3
52.5p3.5p42.5p		54p4404	554p4p1p2	5p5p234p2	54p43p3p2	5p34p44p1	5p3144p4p	4p343p43p
52.5p3.5p3.5p3		5p44404	5p54p403p	552p3p42p	5p44p33p2	53p44p41p	5p25p25p2	43p43p43p
52.5p2.5p3.5p4		54p4152	5p5p4403p	5p5p2333p	5p443p3p2	53p44p2p3	52p52p52p	43p43p4p3

Period 6
Pass x 3
Self x 2

8 objects

Period 2
Pass x 2

Period 4
Pass x 2
Self x 2

6p2p	553p3p	5.5p52.5p25	5.5p3344.5p	53.5p452.5p	6p33534p	62623p5p	615p5p34	55p5p531	554p53p2	5p45p424
5p3p	55p2p4	5.5p524.5p3	5.5p2.5p525	53.5p43.5p4	6p3p353p4	62614p5p	6p155p25	55p553p1	554p4p42	5p454p24
7p1p	5p524p	5.5p5243.5p	5.5p2.5p345	5352.5p4.5p	633p5p34	626p145p	615p453p	55p5p522	55p44p42	54p5p352
	5p44p3	5.5p504.5p5	5.5p1.5p535	533.5p44.5p	6p3p3525	625p56p0	6154p53p	55p5504p	55p44p33	5p45p352
	5p443p	5.5p455.5p0	5.5p1.5p445	52.5p4.5p44	6p33525p	625p5p42	6154p4p4	5p555p04	554p43p3	54p533p4
	5p44p3	5.5p453.5p2	5.5p144.5p5	52.5p4.5p45	6p3345p3	625p54p2	615p44p5	615p44p4	55p443p3	54p533p4
	5p44p3	5.5p4532.5p	5.5p054.5p5	4.5p44.5p34	6p3p34p53	6255p3p3	6153p4p5	5p554p50	554p4p33	54p5p334
	53p53p	5.5p4514.5p	5553.5p1.5p	4.5p443.5p4	633p453p	625p5p33	6p1534p5	55p54p41	5p534p52	5p45p334
	5p35p3	5.5p44.5p42	5552.5p2.5p		633p4p44	62553p3p	615p255p	55p5p441	553p4p52	5p444p52
	5p34p4	5.5p44.5p33	554.5p41.5p		633p44p4	625p53p3	6p1525p5	55p5p423	5p534p34	54p44p52
	5p344p	5.5p4442.5p	554.5p2.5p3		6p33444p	625p515p	6p145p35	55p54p23	553p4p34	5p4443p4
		5.5p443.5p3	554.5p1.5p4			6254p43p	614p5p35	5p554p14	553p43p4	54p44p34
		5.5p441.5p5	553.5p42.5p			6254p4p3	6p1444p5	5p55p414	5p534p34	5p444p34
		5.5p42.5p35	553.5p3.5p3			625p443p	614p44p5	555p3p42	55p25p52	54p443p4
		5.5p425.5p3	552.5p52.5p			625p44p3	6p1345p5	55p5p342	5p525p52	5353p5p3
		5.5p4244.5p	552.5p3.5p4			625p44p3	6134p55p	55p53p3p	55p2534p	53p53p344
		5.5p41.5p45	54.5p53.5p2			623p5p35	6125p55p	5553p3p3	5p525p34	5353p44p
		5.5p3.5p425	54.5p532.5p			62353p5p	605p5p53	555p3p33	55p245p3	5p3534p4
		5.5p3.5p335	54.5p514.5p			623p44p5	605p553p	55p5p333	5p52453p	53p453p4
		5.5p35.5p33	54.5p4.5p42			623p4p5p	605p5p44	5p55p252	55p2444p	5p345p34
		5.5p553.5p1	54.5p4.5p23			62254p5p	605p54p4	5p55p234	5p5244p4	534p534p
		5.5p5522.5p	54.5p442.5p			6225p45p	604p54p5	5p5523p4	54p54p51	53p44p44
		5.5p5513.5p	54.5p43.5p3			616p155p	6p0454p5	5p55153p	5p454p51	
		5.5p554.5p0	54.5p244.5p			615p615p	6p045p45	55p5154p	54p5p451	
		5.5p553.5p1	53.5p44.5p2			615p5p52	604p5p45	5p5144p	54p54p24	
		5.5p5513.5p	53.5p443.5p			6155p3p4	6p0355p5	55p453p2	54p5p424	
		5.5p554.5p41								
		5.5p54.5p23								
		5.5p5342.5p								
		5.5p533.5p3								
		5.5p531.5p5								

Period 6
Pass x 2
Self x 4

Period 4
Pass x 2
Self x 2

5p55p1
55p51p
554p2p
55p42p
5p54p2
5p5p33
55p3p3

9 objects



Period 2

Pass
Self

72p
7p2
6p3
63p
5p4
54p

Period 5

Pass
Self x 2

665.5p05
664.5p51
664.5p24
663.5p61
663.5p25
66361.5p
66352.5p
6633.5p4
6632.5p5
66253.5p
6624.5p4
66163.5p
6614.5p5
65.5p641
65.5p623
65.5p551
65.5p524
65.5p353
65.5p344
64.5p561
64.5p525
64.5p363
64.5p345
64642.5p
6463.5p3
6461.5p5
64615.5p
64561.5p
64552.5p
6453.5p4
6452.5p5
644.5p53
644.5p44
643.5p63
643.5p45
642.5p55
64255.5p
63.5p625
63.5p355
63625.5p
635.5p53
635.5p44
63553.5p
6354.5p4
63355.5p
625.5p45
6254.5p5
61.5p555

615.5p55
5.5p5525
5.5p5345
5.5p4535
5.5p4445
55552.5p
5553.5p4
554.5p53
554.5p44

Period 6

Pass
Self x 5

7p26426
726363p
726p363
726p345
72634p5
7p26336
72633p6
726264p
72625p5
72615p6
7p25571
725p571
7p25526
725p526
7p25346
725p346
724716p
724563p
7245p63
72454p5
7245p45
7p24536
72453p6
7244p46
7p24446
724266p
7236p63
7236p45
723564p
72355p5
723p366
723366p
7226p46
72255p6
7206p66
71715p6
717p156

717p066
716p661
716p625
716p364
716p355
715p626
7p15626
7p15356
715p356
714663p
71464p5
71463p6
7p14636
7145p64
7145p55
7144p56
7p14456
7143p66
714p366
713664p
7136p64
71365p5
7136p55
71265p6
7126p56
7116p66
7p06626
7p06356
7p04646
7p04556
66p6630
66663p0
66p6612
666p603
666603p
666p504
6665p04
6664p50
66p6450
6664p14
66p6414
6p66360
6663p60
6p66315
6663p15
6p66261
66p6252
66p6234
66623p4

6p66225
666153p
666p153
666p144
66614p4
666063p
666p063
666p045
66604p5
66p5640
665p640
66p5613
665p550
66p5550
665p514
66p5514
66p5253
665p253
66p5244
665p244
6p64560
664p560
6p64515
664p515
664p263
6p64263
664p245
6p64245
663p660
66p3642
66363p3
66p3633
663p615
6p63561
66p3552
66353p4
66p3534
66p6450
66p3453
6634p53
66p3444
6634p44
6p63363
6633p63
6633p45
6p63345
663p264
663p255

66264p3
662643p
662553p
6625p53
66254p4
6625p44
6615p63
661563p
66154p5
6615p45
66064p5
6605p64
6605p55
6p56460
65p6415
6p56415
6p56262
6p56235
65p6235
65p5560
65p5515
6p55515
6p55263
65p5263
6p55245
6p53562
65p3562
65p3535
6p53463
65p3463
65p3445
6p53445
6p46461
6464p52
64643p4
6464p34
6p46425
6p46362
6463p62
6p46335
6463p35
646155p
645p642
64563p3

Period 6

Pass
Self x 6

645p633
64p5615
6p45561
645p552
64553p4
645p534
6p45525
6454p53
645p453
645p444
6454p44
6p45363
6453p63
6p45345
6453p45
64p5255
644p562
6p44562
6p44535
644p535
644p463
6p44463
6p44445
644p445
643p635
64p3635
64p3455
643p455
642555p
636255p
63p6255
6355p53
635553p
63554p4
6355p44
633555p
63p3555
62554p5
6255p45
6155p55
555p552
555p534
55553p4
5554p53
555p453
555p444
5554p44

Period 3

Pass
Self x 2

6.5p61
6.5p52
6.5p34
6.5p25
661.5p
65.5p2
64.5p3
643.5p
634.5p
62.5p5
5.5p53
5.5p44
553.5p
54.5p4

Period 4

Pass
Self x 2

66p60
665p1
66p51
664p2
6p642
66p24
6624p
66p15
661p5
65p52
65p34
64p62
6p444
64p35
635p4
6354p
62p55
625p5
5553p
55p44
554p4