| Date | [10:47pm](https://www.forexfactory.com/timezone.php) | Currency | Impact |  | Detail | Actual | Forecast | Previous | Graph |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |
| WedOct 18 | 1:00am | USD |  | FOMC Member Harker Speaks |  |  |  |  |  |
|  | 3:30am | CAD |  | Gov Council Member Wilkins Speaks |  |  |  |  |  |
|  | 4:00am | USD |  | TIC Long-Term Purchases |  | 67.2B | 14.3B | 1.2B |  |
|  | 5:00am | USD |  | Treasury Currency Report |  |  |  |  |  |
|  | 7:30am | AUD |  | MI Leading Index m/m |  | 0.1% |  | -0.1% |  |
|  | 4:10pm | EUR |  | ECB President Draghi Speaks |  |  |  |  |  |
|  | 4:30pm | GBP |  | Average Earnings Index 3m/y |  | 2.2% | 2.1% | 2.2% |  |
|  |  | GBP |  | Claimant Count Change |  | 1.7K | 1.3K | -0.2K |  |
|  |  | GBP |  | Unemployment Rate |  | 4.3% | 4.3% | 4.3% |  |
|  | 5:34pm | EUR |  | German 30-y Bond Auction |  | 1.22|1.7 |  | 1.27|1.8 |  |
|  | 8:00pm | USD |  | FOMC Member Dudley Speaks |  |  |  |  |  |
|  |  | USD |  | FOMC Member Kaplan Speaks |  |  |  |  |  |
|  | 8:30pm | CAD |  | Manufacturing Sales m/m |  | 1.6% | -0.1% | -2.6% |  |
|  |  | USD |  | Building Permits |  | 1.22M | 1.25M | 1.27M |  |
|  |  | USD |  | Housing Starts |  | 1.13M | 1.18M | 1.18M |  |
|  | 10:30pm | USD |  | Crude Oil Inventories |  | -5.7M | -4.7M | -2.7M |  |

Arbitrage between JustForex and Mocaz

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex Mocaz\_spread Mocaz \

timestamp

2017-10-18 04:59:08 15.0 1.319365 100.0 1.318940

2017-10-18 04:59:09 15.0 1.319365 100.0 1.318950

2017-10-18 04:59:10 15.0 1.319365 100.0 1.319040

2017-10-18 04:59:11 15.0 1.319365 100.0 1.319030

2017-10-18 04:59:12 15.0 1.319365 99.0 1.318995

2017-10-18 04:59:13 15.0 1.319365 100.0 1.318960

2017-10-18 04:59:14 15.0 1.319365 100.0 1.318960

2017-10-18 04:59:15 15.0 1.319365 99.0 1.318985

2017-10-18 04:59:16 15.0 1.319365 100.0 1.318970

2017-10-18 04:59:17 15.0 1.319365 91.0 1.319015

2017-10-18 04:59:18 15.0 1.319365 91.0 1.319025

2017-10-18 04:59:19 15.0 1.319365 88.0 1.318980

2017-10-18 04:59:20 15.0 1.319365 86.0 1.318990

2017-10-18 04:59:21 15.0 1.319365 98.0 1.318990

2017-10-18 04:59:22 15.0 1.319365 93.0 1.318985

2017-10-18 04:59:23 15.0 1.319365 91.0 1.319015

2017-10-18 04:59:24 15.0 1.319365 79.0 1.319065

2017-10-18 04:59:25 15.0 1.319365 79.0 1.319065

2017-10-18 04:59:26 15.0 1.319365 67.0 1.319065

2017-10-18 04:59:27 15.0 1.319365 78.0 1.319060

2017-10-18 04:59:28 15.0 1.319365 78.0 1.319060

2017-10-18 04:59:31 15.0 1.319365 61.0 1.319045

2017-10-18 04:59:32 15.0 1.319365 61.0 1.319045

2017-10-18 04:59:33 15.0 1.319365 70.0 1.319050

2017-10-18 04:59:34 15.0 1.319365 68.0 1.319060

2017-10-18 04:59:35 15.0 1.319365 68.0 1.319060

2017-10-18 04:59:37 15.0 1.319365 60.0 1.319060

2017-10-18 04:59:38 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:39 15.0 1.319365 60.0 1.319060

2017-10-18 04:59:40 15.0 1.319365 61.0 1.319055

2017-10-18 04:59:58 15.0 1.319365 62.0 1.319050

pipDiff totalSpread

timestamp

2017-10-18 04:59:08 -42.0 115.0

2017-10-18 04:59:09 -41.0 115.0

2017-10-18 04:59:10 -32.0 115.0

2017-10-18 04:59:11 -33.0 115.0

2017-10-18 04:59:12 -37.0 114.0

2017-10-18 04:59:13 -40.0 115.0

2017-10-18 04:59:14 -40.0 115.0

2017-10-18 04:59:15 -38.0 114.0

2017-10-18 04:59:16 -39.0 115.0

2017-10-18 04:59:17 -35.0 106.0

2017-10-18 04:59:18 -34.0 106.0

2017-10-18 04:59:19 -38.0 103.0

2017-10-18 04:59:20 -38.0 101.0

2017-10-18 04:59:21 -38.0 113.0

2017-10-18 04:59:22 -38.0 108.0

2017-10-18 04:59:23 -35.0 106.0

2017-10-18 04:59:24 -30.0 94.0

2017-10-18 04:59:25 -30.0 94.0

2017-10-18 04:59:26 -30.0 82.0

2017-10-18 04:59:27 -30.0 93.0

2017-10-18 04:59:28 -30.0 93.0

2017-10-18 04:59:31 -32.0 76.0

2017-10-18 04:59:32 -32.0 76.0

2017-10-18 04:59:33 -32.0 85.0

2017-10-18 04:59:34 -30.0 83.0

2017-10-18 04:59:35 -30.0 83.0

2017-10-18 04:59:37 -30.0 75.0

2017-10-18 04:59:38 -30.0 74.0

2017-10-18 04:59:39 -30.0 75.0

2017-10-18 04:59:40 -31.0 76.0

2017-10-18 04:59:58 -31.0 77.0

JustForex\_spread JustForex Mocaz\_spread Mocaz \

timestamp

2017-10-18 05:00:01 15.0 1.319365 82.0 1.319050

2017-10-18 05:00:02 15.0 1.319365 89.0 1.319015

2017-10-18 05:00:03 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:04 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:05 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:06 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:07 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:08 15.0 1.319365 85.0 1.318885

2017-10-18 05:00:09 15.0 1.319365 85.0 1.318885

2017-10-18 05:00:10 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:11 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:12 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:13 15.0 1.319365 90.0 1.318860

2017-10-18 05:00:14 15.0 1.319365 93.0 1.318835

2017-10-18 05:00:15 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:16 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:17 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:18 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:19 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:20 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:21 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:22 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:23 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:24 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:25 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:26 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:27 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:28 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:29 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:30 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:31 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:32 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:33 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:34 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:35 15.0 1.319365 93.0 1.318835

2017-10-18 05:00:36 15.0 1.319365 99.0 1.318765

2017-10-18 05:00:37 15.0 1.319365 99.0 1.318765

2017-10-18 05:00:38 15.0 1.319365 99.0 1.318765

pipDiff totalSpread

timestamp

2017-10-18 05:00:01 -31.0 97.0

2017-10-18 05:00:02 -35.0 104.0

2017-10-18 05:00:03 -31.0 96.0

2017-10-18 05:00:04 -31.0 96.0

2017-10-18 05:00:05 -31.0 96.0

2017-10-18 05:00:06 -31.0 96.0

2017-10-18 05:00:07 -31.0 96.0

2017-10-18 05:00:08 -48.0 100.0

2017-10-18 05:00:09 -48.0 100.0

2017-10-18 05:00:10 -48.0 101.0

2017-10-18 05:00:11 -48.0 101.0

2017-10-18 05:00:12 -48.0 101.0

2017-10-18 05:00:13 -50.0 105.0

2017-10-18 05:00:14 -53.0 108.0

2017-10-18 05:00:15 -52.0 106.0

2017-10-18 05:00:16 -52.0 106.0

2017-10-18 05:00:17 -52.0 106.0

2017-10-18 05:00:18 -52.0 106.0

2017-10-18 05:00:19 -52.0 106.0

2017-10-18 05:00:20 -52.0 106.0

2017-10-18 05:00:21 -52.0 106.0

2017-10-18 05:00:22 -52.0 106.0

2017-10-18 05:00:23 -52.0 106.0

2017-10-18 05:00:24 -52.0 106.0

2017-10-18 05:00:25 -52.0 106.0

2017-10-18 05:00:26 -52.0 106.0

2017-10-18 05:00:27 -52.0 106.0

2017-10-18 05:00:28 -52.0 106.0

2017-10-18 05:00:29 -52.0 106.0

2017-10-18 05:00:30 -52.0 106.0

2017-10-18 05:00:31 -52.0 106.0

2017-10-18 05:00:32 -52.0 106.0

2017-10-18 05:00:33 -52.0 106.0

2017-10-18 05:00:34 -52.0 106.0

2017-10-18 05:00:35 -53.0 108.0

2017-10-18 05:00:36 -60.0 114.0

2017-10-18 05:00:37 -60.0 114.0

2017-10-18 05:00:38 -60.0 114.0

JustForex\_spread JustForex Mocaz\_spread Mocaz \

timestamp

2017-10-18 16:30:04 73.0 1.320015 59.0 1.319715

2017-10-18 16:30:06 61.0 1.318255 63.0 1.318695

2017-10-18 16:48:08 17.0 1.316555 22.0 1.316110

pipDiff totalSpread

timestamp

2017-10-18 16:30:04 -30.0 132.0

2017-10-18 16:30:06 44.0 124.0

2017-10-18 16:48:08 -45.0 39.0

Process finished with exit code 0

Arbitrage between JustForex and IC Market

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex International\_spread \

timestamp

2017-10-18 05:00:01 15.0 1.319365 54.0

2017-10-18 05:00:03 15.0 1.319365 54.0

2017-10-18 05:00:04 15.0 1.319365 54.0

2017-10-18 05:00:05 15.0 1.319365 54.0

2017-10-18 05:00:06 15.0 1.319365 54.0

2017-10-18 05:00:07 15.0 1.319365 54.0

2017-10-18 05:00:08 15.0 1.319365 54.0

2017-10-18 05:00:09 15.0 1.319365 54.0

2017-10-18 05:00:10 15.0 1.319365 54.0

2017-10-18 05:00:11 15.0 1.319365 55.0

2017-10-18 05:00:12 15.0 1.319365 55.0

2017-10-18 05:00:13 15.0 1.319365 54.0

2017-10-18 05:00:14 15.0 1.319365 54.0

2017-10-18 05:00:15 15.0 1.319365 54.0

2017-10-18 05:00:16 15.0 1.319365 54.0

2017-10-18 05:00:17 15.0 1.319365 54.0

2017-10-18 05:00:18 15.0 1.319365 54.0

2017-10-18 05:00:19 15.0 1.319365 54.0

2017-10-18 05:00:20 15.0 1.319365 54.0

2017-10-18 05:00:21 15.0 1.319365 54.0

2017-10-18 05:00:22 15.0 1.319365 54.0

2017-10-18 05:00:23 15.0 1.319365 54.0

2017-10-18 05:00:24 15.0 1.319365 54.0

2017-10-18 05:00:25 15.0 1.319365 54.0

2017-10-18 05:00:26 15.0 1.319365 54.0

2017-10-18 05:00:27 15.0 1.319365 54.0

2017-10-18 05:00:28 15.0 1.319365 54.0

2017-10-18 05:00:29 15.0 1.319365 54.0

2017-10-18 05:00:30 15.0 1.319365 54.0

2017-10-18 05:00:31 15.0 1.319365 54.0

2017-10-18 05:00:32 15.0 1.319365 54.0

2017-10-18 05:00:33 15.0 1.319365 54.0

2017-10-18 05:00:34 15.0 1.319365 54.0

2017-10-18 05:00:35 15.0 1.319365 54.0

2017-10-18 05:00:36 15.0 1.319365 91.0

2017-10-18 05:00:37 15.0 1.319365 91.0

2017-10-18 05:00:38 15.0 1.319365 91.0

International pipDiff totalSpread

timestamp

2017-10-18 05:00:01 1.318990 -37.0 69.0

2017-10-18 05:00:03 1.319000 -36.0 69.0

2017-10-18 05:00:04 1.319000 -36.0 69.0

2017-10-18 05:00:05 1.319000 -36.0 69.0

2017-10-18 05:00:06 1.319000 -36.0 69.0

2017-10-18 05:00:07 1.319000 -36.0 69.0

2017-10-18 05:00:08 1.319000 -36.0 69.0

2017-10-18 05:00:09 1.319000 -36.0 69.0

2017-10-18 05:00:10 1.319000 -36.0 69.0

2017-10-18 05:00:11 1.318995 -37.0 70.0

2017-10-18 05:00:12 1.318995 -37.0 70.0

2017-10-18 05:00:13 1.318990 -37.0 69.0

2017-10-18 05:00:14 1.318990 -37.0 69.0

2017-10-18 05:00:15 1.318990 -37.0 69.0

2017-10-18 05:00:16 1.318990 -37.0 69.0

2017-10-18 05:00:17 1.318990 -37.0 69.0

2017-10-18 05:00:18 1.318990 -37.0 69.0

2017-10-18 05:00:19 1.318990 -37.0 69.0

2017-10-18 05:00:20 1.318990 -37.0 69.0

2017-10-18 05:00:21 1.318990 -37.0 69.0

2017-10-18 05:00:22 1.318990 -37.0 69.0

2017-10-18 05:00:23 1.318990 -37.0 69.0

2017-10-18 05:00:24 1.318990 -37.0 69.0

2017-10-18 05:00:25 1.318990 -37.0 69.0

2017-10-18 05:00:26 1.318990 -37.0 69.0

2017-10-18 05:00:27 1.318990 -37.0 69.0

2017-10-18 05:00:28 1.318990 -37.0 69.0

2017-10-18 05:00:29 1.318990 -37.0 69.0

2017-10-18 05:00:30 1.318990 -37.0 69.0

2017-10-18 05:00:31 1.318990 -37.0 69.0

2017-10-18 05:00:32 1.318990 -37.0 69.0

2017-10-18 05:00:33 1.318990 -37.0 69.0

2017-10-18 05:00:34 1.318990 -37.0 69.0

2017-10-18 05:00:35 1.318990 -37.0 69.0

2017-10-18 05:00:36 1.318765 -60.0 106.0

2017-10-18 05:00:37 1.318765 -60.0 106.0

2017-10-18 05:00:38 1.318765 -60.0 106.0

JustForex\_spread JustForex International\_spread \

timestamp

2017-10-18 16:30:00 18.0 1.320510 50.0

2017-10-18 16:30:01 82.0 1.321200 48.0

2017-10-18 16:30:02 76.0 1.321320 48.0

2017-10-18 16:30:03 54.0 1.320480 76.0

2017-10-18 16:30:04 73.0 1.320015 73.0

2017-10-18 16:30:06 61.0 1.318255 87.0

2017-10-18 16:30:07 54.0 1.319330 66.0

2017-10-18 16:48:08 17.0 1.316555 13.0

International pipDiff totalSpread

timestamp

2017-10-18 16:30:00 1.318530 -198.0 68.0

2017-10-18 16:30:01 1.319820 -138.0 130.0

2017-10-18 16:30:02 1.319820 -150.0 124.0

2017-10-18 16:30:03 1.321380 90.0 130.0

2017-10-18 16:30:04 1.320695 68.0 146.0

2017-10-18 16:30:06 1.318965 71.0 148.0

2017-10-18 16:30:07 1.318770 -56.0 120.0

2017-10-18 16:48:08 1.316245 -31.0 30.0

JustForex\_spread JustForex International\_spread \

timestamp

2017-10-18 20:20:56 13.0 1.315905 12.0

2017-10-18 20:44:54 12.0 1.317060 12.0

2017-10-18 20:49:40 12.0 1.315970 12.0

2017-10-18 20:49:44 15.0 1.315915 10.0

2017-10-18 20:49:45 12.0 1.315990 10.0

International pipDiff totalSpread

timestamp

2017-10-18 20:20:56 1.31558 -32.0 25.0

2017-10-18 20:44:54 1.31667 -39.0 24.0

2017-10-18 20:49:40 1.31629 32.0 24.0

2017-10-18 20:49:44 1.31560 -32.0 25.0

2017-10-18 20:49:45 1.31560 -39.0 22.0

JustForex\_spread JustForex International\_spread \

timestamp

2017-10-18 22:58:26 10.0 1.31705 17.0

International pipDiff totalSpread

timestamp

2017-10-18 22:58:26 1.316715 -34.0 27.0

Process finished with exit code 0

Arbitrage between JustForex and PipHijau

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex Pip\_spread Pip \

timestamp

2017-10-18 04:59:08 15.0 1.319365 100.0 1.318950

2017-10-18 04:59:09 15.0 1.319365 100.0 1.318940

2017-10-18 04:59:10 15.0 1.319365 100.0 1.319030

2017-10-18 04:59:11 15.0 1.319365 100.0 1.319030

2017-10-18 04:59:12 15.0 1.319365 100.0 1.318990

2017-10-18 04:59:13 15.0 1.319365 100.0 1.318960

2017-10-18 04:59:14 15.0 1.319365 100.0 1.318960

2017-10-18 04:59:15 15.0 1.319365 99.0 1.318985

2017-10-18 04:59:16 15.0 1.319365 100.0 1.318970

2017-10-18 04:59:17 15.0 1.319365 92.0 1.319010

2017-10-18 04:59:18 15.0 1.319365 91.0 1.319025

2017-10-18 04:59:19 15.0 1.319365 87.0 1.318985

2017-10-18 04:59:20 15.0 1.319365 86.0 1.318990

2017-10-18 04:59:21 15.0 1.319365 98.0 1.318990

2017-10-18 04:59:22 15.0 1.319365 93.0 1.318985

2017-10-18 04:59:23 15.0 1.319365 91.0 1.319015

2017-10-18 04:59:24 15.0 1.319365 79.0 1.319065

2017-10-18 04:59:25 15.0 1.319365 79.0 1.319065

2017-10-18 04:59:26 15.0 1.319365 67.0 1.319065

2017-10-18 04:59:28 15.0 1.319365 78.0 1.319060

2017-10-18 04:59:31 15.0 1.319365 61.0 1.319045

2017-10-18 04:59:32 15.0 1.319365 61.0 1.319045

2017-10-18 04:59:33 15.0 1.319365 70.0 1.319050

2017-10-18 04:59:34 15.0 1.319365 68.0 1.319060

2017-10-18 04:59:35 15.0 1.319365 68.0 1.319060

2017-10-18 04:59:37 15.0 1.319365 60.0 1.319060

2017-10-18 04:59:38 15.0 1.319365 63.0 1.319055

2017-10-18 04:59:39 15.0 1.319365 60.0 1.319060

2017-10-18 04:59:40 15.0 1.319365 61.0 1.319055

2017-10-18 04:59:55 15.0 1.319365 65.0 1.319055

2017-10-18 04:59:58 15.0 1.319365 60.0 1.319060

2017-10-18 04:59:59 15.0 1.319365 71.0 1.319065

pipDiff totalSpread

timestamp

2017-10-18 04:59:08 -41.0 115.0

2017-10-18 04:59:09 -42.0 115.0

2017-10-18 04:59:10 -33.0 115.0

2017-10-18 04:59:11 -33.0 115.0

2017-10-18 04:59:12 -38.0 115.0

2017-10-18 04:59:13 -40.0 115.0

2017-10-18 04:59:14 -40.0 115.0

2017-10-18 04:59:15 -38.0 114.0

2017-10-18 04:59:16 -39.0 115.0

2017-10-18 04:59:17 -35.0 107.0

2017-10-18 04:59:18 -34.0 106.0

2017-10-18 04:59:19 -38.0 102.0

2017-10-18 04:59:20 -38.0 101.0

2017-10-18 04:59:21 -38.0 113.0

2017-10-18 04:59:22 -38.0 108.0

2017-10-18 04:59:23 -35.0 106.0

2017-10-18 04:59:24 -30.0 94.0

2017-10-18 04:59:25 -30.0 94.0

2017-10-18 04:59:26 -30.0 82.0

2017-10-18 04:59:28 -30.0 93.0

2017-10-18 04:59:31 -32.0 76.0

2017-10-18 04:59:32 -32.0 76.0

2017-10-18 04:59:33 -32.0 85.0

2017-10-18 04:59:34 -30.0 83.0

2017-10-18 04:59:35 -30.0 83.0

2017-10-18 04:59:37 -30.0 75.0

2017-10-18 04:59:38 -31.0 78.0

2017-10-18 04:59:39 -30.0 75.0

2017-10-18 04:59:40 -31.0 76.0

2017-10-18 04:59:55 -31.0 80.0

2017-10-18 04:59:58 -30.0 75.0

2017-10-18 04:59:59 -30.0 86.0

JustForex\_spread JustForex Pip\_spread Pip \

timestamp

2017-10-18 05:00:01 15.0 1.319365 82.0 1.319050

2017-10-18 05:00:02 15.0 1.319365 89.0 1.319015

2017-10-18 05:00:03 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:04 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:05 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:06 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:07 15.0 1.319365 81.0 1.319055

2017-10-18 05:00:08 15.0 1.319365 85.0 1.318885

2017-10-18 05:00:09 15.0 1.319365 85.0 1.318885

2017-10-18 05:00:10 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:11 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:12 15.0 1.319365 86.0 1.318880

2017-10-18 05:00:13 15.0 1.319365 90.0 1.318860

2017-10-18 05:00:14 15.0 1.319365 93.0 1.318835

2017-10-18 05:00:15 15.0 1.319365 93.0 1.318835

2017-10-18 05:00:16 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:17 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:18 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:19 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:20 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:21 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:22 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:23 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:24 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:25 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:26 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:27 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:28 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:29 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:30 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:31 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:32 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:33 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:34 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:35 15.0 1.319365 91.0 1.318845

2017-10-18 05:00:36 15.0 1.319365 99.0 1.318765

2017-10-18 05:00:37 15.0 1.319365 99.0 1.318765

2017-10-18 05:00:38 15.0 1.319365 99.0 1.318765

pipDiff totalSpread

timestamp

2017-10-18 05:00:01 -31.0 97.0

2017-10-18 05:00:02 -35.0 104.0

2017-10-18 05:00:03 -31.0 96.0

2017-10-18 05:00:04 -31.0 96.0

2017-10-18 05:00:05 -31.0 96.0

2017-10-18 05:00:06 -31.0 96.0

2017-10-18 05:00:07 -31.0 96.0

2017-10-18 05:00:08 -48.0 100.0

2017-10-18 05:00:09 -48.0 100.0

2017-10-18 05:00:10 -48.0 101.0

2017-10-18 05:00:11 -48.0 101.0

2017-10-18 05:00:12 -48.0 101.0

2017-10-18 05:00:13 -50.0 105.0

2017-10-18 05:00:14 -53.0 108.0

2017-10-18 05:00:15 -53.0 108.0

2017-10-18 05:00:16 -52.0 106.0

2017-10-18 05:00:17 -52.0 106.0

2017-10-18 05:00:18 -52.0 106.0

2017-10-18 05:00:19 -52.0 106.0

2017-10-18 05:00:20 -52.0 106.0

2017-10-18 05:00:21 -52.0 106.0

2017-10-18 05:00:22 -52.0 106.0

2017-10-18 05:00:23 -52.0 106.0

2017-10-18 05:00:24 -52.0 106.0

2017-10-18 05:00:25 -52.0 106.0

2017-10-18 05:00:26 -52.0 106.0

2017-10-18 05:00:27 -52.0 106.0

2017-10-18 05:00:28 -52.0 106.0

2017-10-18 05:00:29 -52.0 106.0

2017-10-18 05:00:30 -52.0 106.0

2017-10-18 05:00:31 -52.0 106.0

2017-10-18 05:00:32 -52.0 106.0

2017-10-18 05:00:33 -52.0 106.0

2017-10-18 05:00:34 -52.0 106.0

2017-10-18 05:00:35 -52.0 106.0

2017-10-18 05:00:36 -60.0 114.0

2017-10-18 05:00:37 -60.0 114.0

2017-10-18 05:00:38 -60.0 114.0

JustForex\_spread JustForex Pip\_spread Pip \

timestamp

2017-10-18 16:30:00 18.0 1.32051 68.0 1.32021

pipDiff totalSpread

timestamp

2017-10-18 16:30:00 -30.0 86.0

Process finished with exit code 0

**Arbitrage between JustForex and HotForex**

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex HF\_spread HF \

timestamp

2017-10-18 04:59:08 15.0 1.319365 60.0 1.319050

2017-10-18 04:59:09 15.0 1.319365 60.0 1.319050

2017-10-18 04:59:12 15.0 1.319365 60.0 1.319000

2017-10-18 04:59:13 15.0 1.319365 60.0 1.319000

2017-10-18 04:59:14 15.0 1.319365 60.0 1.319000

2017-10-18 04:59:15 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:16 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:17 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:18 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:19 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:20 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:21 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:22 15.0 1.319365 60.0 1.319010

2017-10-18 04:59:23 15.0 1.319365 60.0 1.318990

2017-10-18 04:59:24 15.0 1.319365 55.0 1.319045

2017-10-18 04:59:25 15.0 1.319365 55.0 1.319045

2017-10-18 04:59:26 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:27 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:28 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:29 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:30 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:31 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:32 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:33 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:34 15.0 1.319365 59.0 1.319065

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2017-10-18 04:59:37 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:38 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:39 15.0 1.319365 59.0 1.319065

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2017-10-18 04:59:41 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:42 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:43 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:44 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:45 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:46 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:47 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:48 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:49 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:50 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:51 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:53 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:55 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:57 15.0 1.319365 59.0 1.319065

2017-10-18 04:59:59 15.0 1.319365 59.0 1.319065

pipDiff totalSpread

timestamp

2017-10-18 04:59:08 -31.0 75.0

2017-10-18 04:59:09 -31.0 75.0

2017-10-18 04:59:12 -36.0 75.0

2017-10-18 04:59:13 -36.0 75.0

2017-10-18 04:59:14 -36.0 75.0

2017-10-18 04:59:15 -35.0 75.0

2017-10-18 04:59:16 -35.0 75.0

2017-10-18 04:59:17 -35.0 75.0

2017-10-18 04:59:18 -35.0 75.0

2017-10-18 04:59:19 -35.0 75.0

2017-10-18 04:59:20 -35.0 75.0

2017-10-18 04:59:21 -35.0 75.0

2017-10-18 04:59:22 -35.0 75.0

2017-10-18 04:59:23 -38.0 75.0

2017-10-18 04:59:24 -32.0 70.0

2017-10-18 04:59:25 -32.0 70.0

2017-10-18 04:59:26 -30.0 74.0

2017-10-18 04:59:27 -30.0 74.0

2017-10-18 04:59:28 -30.0 74.0

2017-10-18 04:59:29 -30.0 74.0

2017-10-18 04:59:30 -30.0 74.0

2017-10-18 04:59:31 -30.0 74.0

2017-10-18 04:59:32 -30.0 74.0

2017-10-18 04:59:33 -30.0 74.0

2017-10-18 04:59:34 -30.0 74.0

2017-10-18 04:59:35 -30.0 74.0

2017-10-18 04:59:36 -30.0 74.0

2017-10-18 04:59:37 -30.0 74.0

2017-10-18 04:59:38 -30.0 74.0

2017-10-18 04:59:39 -30.0 74.0

2017-10-18 04:59:40 -30.0 74.0

2017-10-18 04:59:41 -30.0 74.0

2017-10-18 04:59:42 -30.0 74.0

2017-10-18 04:59:43 -30.0 74.0

2017-10-18 04:59:44 -30.0 74.0

2017-10-18 04:59:45 -30.0 74.0

2017-10-18 04:59:46 -30.0 74.0

2017-10-18 04:59:47 -30.0 74.0

2017-10-18 04:59:48 -30.0 74.0

2017-10-18 04:59:49 -30.0 74.0

2017-10-18 04:59:50 -30.0 74.0

2017-10-18 04:59:51 -30.0 74.0

2017-10-18 04:59:53 -30.0 74.0

2017-10-18 04:59:55 -30.0 74.0

2017-10-18 04:59:57 -30.0 74.0

2017-10-18 04:59:59 -30.0 74.0

JustForex\_spread JustForex HF\_spread HF \

timestamp

2017-10-18 05:00:01 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:02 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:03 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:04 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:05 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:06 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:07 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:08 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:09 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:10 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:11 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:12 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:13 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:14 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:15 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:16 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:17 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:18 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:19 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:20 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:21 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:22 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:23 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:24 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:25 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:26 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:27 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:28 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:29 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:30 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:31 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:32 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:33 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:34 15.0 1.319365 59.0 1.319065

2017-10-18 05:00:35 15.0 1.319365 60.0 1.318910

2017-10-18 05:00:36 15.0 1.319365 60.0 1.318870

2017-10-18 05:00:37 15.0 1.319365 60.0 1.318870

2017-10-18 05:00:38 15.0 1.319365 60.0 1.318870

pipDiff totalSpread

timestamp

2017-10-18 05:00:01 -30.0 74.0

2017-10-18 05:00:02 -30.0 74.0

2017-10-18 05:00:03 -30.0 74.0

2017-10-18 05:00:04 -30.0 74.0

2017-10-18 05:00:05 -30.0 74.0

2017-10-18 05:00:06 -30.0 74.0

2017-10-18 05:00:07 -30.0 74.0

2017-10-18 05:00:08 -30.0 74.0

2017-10-18 05:00:09 -30.0 74.0

2017-10-18 05:00:10 -30.0 74.0

2017-10-18 05:00:11 -30.0 74.0

2017-10-18 05:00:12 -30.0 74.0

2017-10-18 05:00:13 -30.0 74.0

2017-10-18 05:00:14 -30.0 74.0

2017-10-18 05:00:15 -30.0 74.0

2017-10-18 05:00:16 -30.0 74.0

2017-10-18 05:00:17 -30.0 74.0

2017-10-18 05:00:18 -30.0 74.0

2017-10-18 05:00:19 -30.0 74.0

2017-10-18 05:00:20 -30.0 74.0

2017-10-18 05:00:21 -30.0 74.0

2017-10-18 05:00:22 -30.0 74.0

2017-10-18 05:00:23 -30.0 74.0

2017-10-18 05:00:24 -30.0 74.0

2017-10-18 05:00:25 -30.0 74.0

2017-10-18 05:00:26 -30.0 74.0

2017-10-18 05:00:27 -30.0 74.0

2017-10-18 05:00:28 -30.0 74.0

2017-10-18 05:00:29 -30.0 74.0

2017-10-18 05:00:30 -30.0 74.0

2017-10-18 05:00:31 -30.0 74.0

2017-10-18 05:00:32 -30.0 74.0

2017-10-18 05:00:33 -30.0 74.0

2017-10-18 05:00:34 -30.0 74.0

2017-10-18 05:00:35 -45.0 75.0

2017-10-18 05:00:36 -49.0 75.0

2017-10-18 05:00:37 -49.0 75.0

2017-10-18 05:00:38 -49.0 75.0

JustForex\_spread JustForex HF\_spread HF \

timestamp

2017-10-18 16:30:00 18.0 1.320510 33.0 1.318645

2017-10-18 16:30:06 61.0 1.318255 27.0 1.318745

2017-10-18 16:48:08 17.0 1.316555 14.0 1.316200

pipDiff totalSpread

timestamp

2017-10-18 16:30:00 -187.0 51.0

2017-10-18 16:30:06 49.0 88.0

2017-10-18 16:48:08 -36.0 31.0

Process finished with exit code 0

**Arbitrage between JustForex and Tradesto**

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex Tradesto\_spread Tradesto \

timestamp

2017-10-18 04:59:26 15.0 1.319365 47.0 1.319025

2017-10-18 04:59:27 15.0 1.319365 47.0 1.319025

2017-10-18 04:59:28 15.0 1.319365 47.0 1.319025

2017-10-18 04:59:29 15.0 1.319365 47.0 1.319025

2017-10-18 04:59:55 15.0 1.319365 66.0 1.319060

2017-10-18 04:59:57 15.0 1.319365 66.0 1.319060

2017-10-18 04:59:58 15.0 1.319365 66.0 1.319060

2017-10-18 04:59:59 15.0 1.319365 66.0 1.319060

pipDiff totalSpread

timestamp

2017-10-18 04:59:26 -34.0 62.0

2017-10-18 04:59:27 -34.0 62.0

2017-10-18 04:59:28 -34.0 62.0

2017-10-18 04:59:29 -34.0 62.0

2017-10-18 04:59:55 -30.0 81.0

2017-10-18 04:59:57 -30.0 81.0

2017-10-18 04:59:58 -30.0 81.0

2017-10-18 04:59:59 -30.0 81.0

JustForex\_spread JustForex Tradesto\_spread Tradesto \

timestamp

2017-10-18 05:00:00 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:01 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:03 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:04 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:05 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:06 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:07 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:08 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:09 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:10 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:11 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:12 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:13 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:14 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:15 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:16 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:17 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:18 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:19 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:20 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:21 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:22 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:23 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:24 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:25 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:26 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:27 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:28 15.0 1.319365 66.0 1.319060

2017-10-18 05:00:29 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:30 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:31 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:32 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:33 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:34 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:35 15.0 1.319365 44.0 1.319000

2017-10-18 05:00:36 15.0 1.319365 83.0 1.318915

2017-10-18 05:00:37 15.0 1.319365 83.0 1.318915

2017-10-18 05:00:38 15.0 1.319365 83.0 1.318915

pipDiff totalSpread

timestamp

2017-10-18 05:00:00 -30.0 81.0

2017-10-18 05:00:01 -30.0 81.0

2017-10-18 05:00:03 -30.0 81.0

2017-10-18 05:00:04 -30.0 81.0

2017-10-18 05:00:05 -30.0 81.0

2017-10-18 05:00:06 -30.0 81.0

2017-10-18 05:00:07 -30.0 81.0

2017-10-18 05:00:08 -30.0 81.0

2017-10-18 05:00:09 -30.0 81.0

2017-10-18 05:00:10 -30.0 81.0

2017-10-18 05:00:11 -30.0 81.0

2017-10-18 05:00:12 -30.0 81.0

2017-10-18 05:00:13 -30.0 81.0

2017-10-18 05:00:14 -30.0 81.0

2017-10-18 05:00:15 -30.0 81.0

2017-10-18 05:00:16 -30.0 81.0

2017-10-18 05:00:17 -30.0 81.0

2017-10-18 05:00:18 -30.0 81.0

2017-10-18 05:00:19 -30.0 81.0

2017-10-18 05:00:20 -30.0 81.0

2017-10-18 05:00:21 -30.0 81.0

2017-10-18 05:00:22 -30.0 81.0

2017-10-18 05:00:23 -30.0 81.0

2017-10-18 05:00:24 -30.0 81.0

2017-10-18 05:00:25 -30.0 81.0

2017-10-18 05:00:26 -30.0 81.0

2017-10-18 05:00:27 -30.0 81.0

2017-10-18 05:00:28 -30.0 81.0

2017-10-18 05:00:29 -36.0 59.0

2017-10-18 05:00:30 -36.0 59.0

2017-10-18 05:00:31 -36.0 59.0

2017-10-18 05:00:32 -36.0 59.0

2017-10-18 05:00:33 -36.0 59.0

2017-10-18 05:00:34 -36.0 59.0

2017-10-18 05:00:35 -36.0 59.0

2017-10-18 05:00:36 -45.0 98.0

2017-10-18 05:00:37 -45.0 98.0

2017-10-18 05:00:38 -45.0 98.0

JustForex\_spread JustForex Tradesto\_spread Tradesto \

timestamp

2017-10-18 16:30:00 18.0 1.320510 31.0 1.318665

2017-10-18 16:30:01 82.0 1.321200 33.0 1.320505

2017-10-18 16:30:03 54.0 1.320480 48.0 1.321180

2017-10-18 16:30:04 73.0 1.320015 50.0 1.321090

2017-10-18 16:30:05 95.0 1.318845 58.0 1.320800

2017-10-18 16:30:06 61.0 1.318255 55.0 1.320595

2017-10-18 16:30:07 54.0 1.319330 47.0 1.320305

2017-10-18 16:30:10 47.0 1.319325 41.0 1.318385

2017-10-18 16:30:15 31.0 1.319555 29.0 1.319225

pipDiff totalSpread

timestamp

2017-10-18 16:30:00 -184.0 49.0

2017-10-18 16:30:01 -69.0 115.0

2017-10-18 16:30:03 70.0 102.0

2017-10-18 16:30:04 107.0 123.0

2017-10-18 16:30:05 195.0 153.0

2017-10-18 16:30:06 234.0 116.0

2017-10-18 16:30:07 97.0 101.0

2017-10-18 16:30:10 -94.0 88.0

2017-10-18 16:30:15 -33.0 60.0

Process finished with exit code 0

