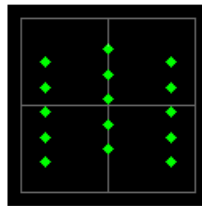


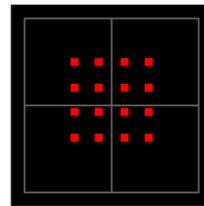
Newport Algorithm 1
Pair Points
Version 0.1.0
2021/4/28

Input & Output



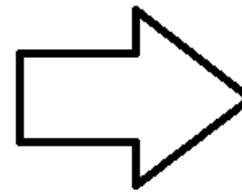
a.csv

	A	B
1	x	y
2	0	0
3	0	1
4	0	2
5	0	3
6	0	4
7	2.5	0.5
8	2.5	1.5
9	2.5	2.5
10	2.5	3.5
11	2.5	4.5
12	5	0
13	5	1
14	5	2
15	5	3
16	5	4

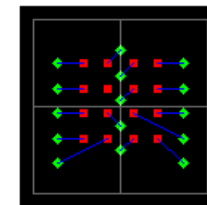


b.csv

	A	B
1	x	y
2	1	1
3	1	2
4	1	3
5	1	4
6	2	1
7	2	2
8	2	3
9	2	4
10	3	1
11	3	2
12	3	3
13	3	4
14	4	1
15	4	2
16	4	3
17	4	4



ab.bmp



ab.csv

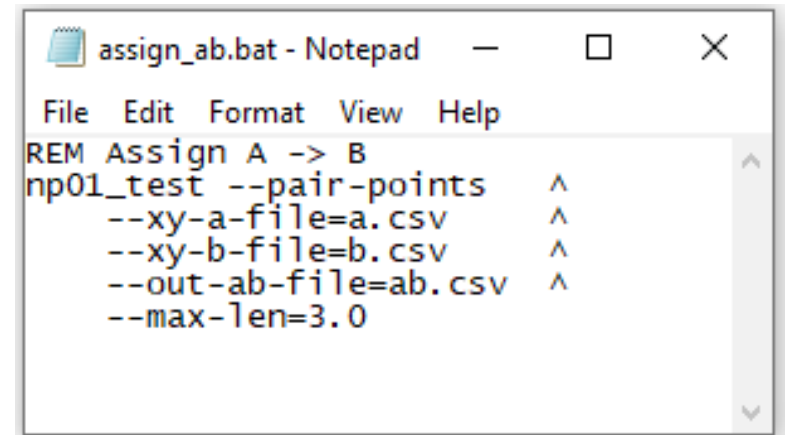
	A	B
1	a	b
2	0	4
3	1	0
4	2	1
5	3	2
6	4	3
7	5	8
8	6	5
9	7	10
10	8	11
11	9	7
12	10	12
13	11	9
14	12	13
15	13	14
16	14	15

max-len (optional)

iterations (optional)

Command Options

- `--pair-points`
 - for point pairing algorithm
- `--xy-a-file`, `--xy-b-file`
 - input (x,y) csv files
- `--out-ab-file`
 - output (A index, B index) file
- `--max-len`
 - attempted maximum point-to-point length
- `--iterations`
 - optimization iteration count



```
File Edit Format View Help
REM Assign A -> B
np01_test --pair-points ^
--xy-a-file=a.csv ^
--xy-b-file=b.csv ^
--out-ab-file=ab.csv ^
--max-len=3.0
```

Output Assignment File

ab.csv

	A	B
1	a	b
2	0	4
3	1	0
4	2	1
5	3	2
6	4	3

