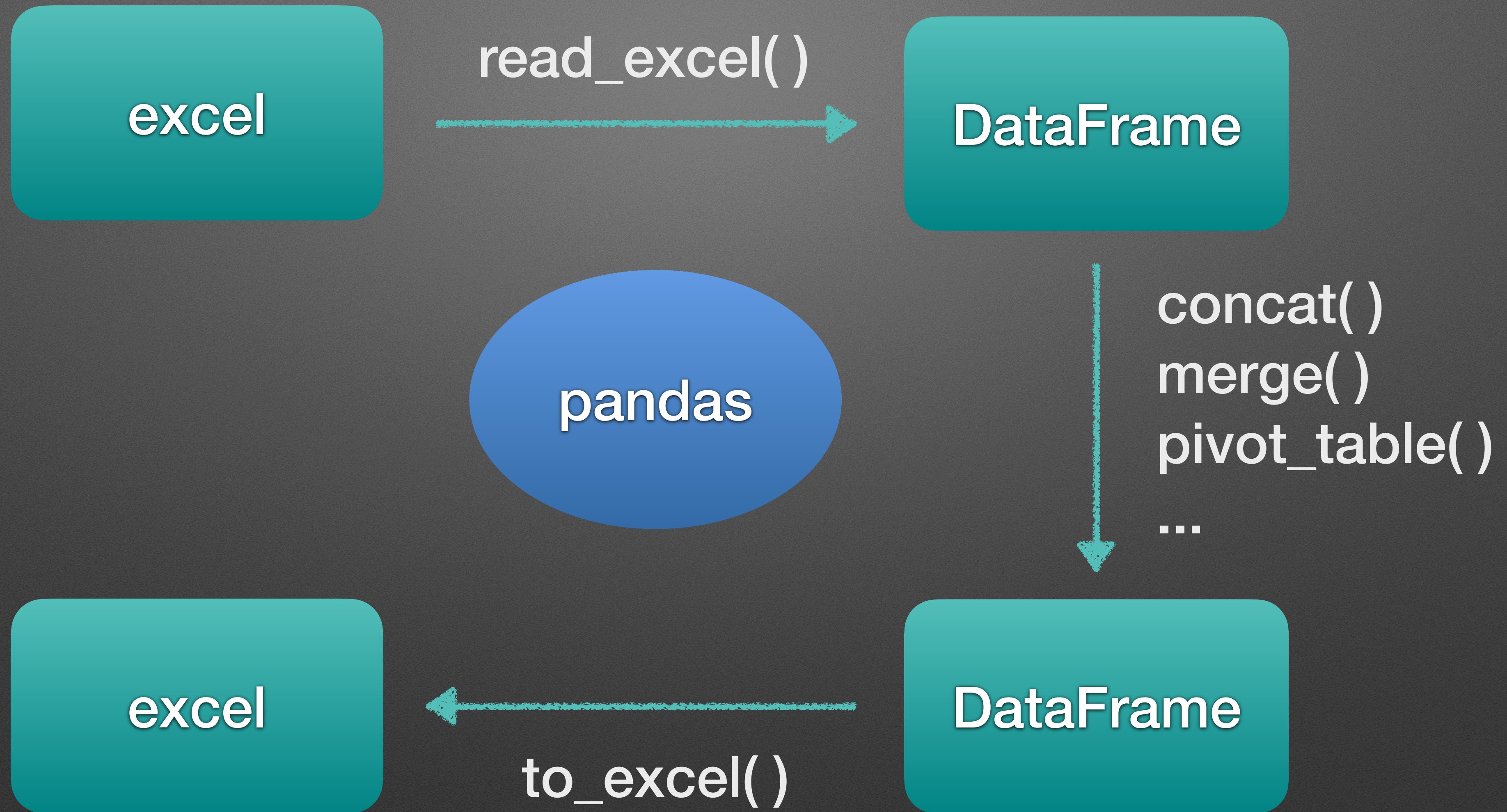


pandas与excel办公自动化

主讲人：梁振亦



AniPython



列索引
或
行索引
的名字

列索引

行索引

数据

DataFrame

pandas.append()

pandas.append()

[illegible]

pandas.join()

pandas.join()

pandas.concat()

axis=0

axis=1

pandas.concat()

axis=0

axis=1

pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.merge()

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pandas.pivot_table()

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pandas.pivot_table()

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pandas.pivot_table()

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			4

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pandas.pivot_table()

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			3
			4

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pandas.pivot_table()

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			3
			4

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pandas.pivot_table()

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			3
			4

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pandas.pivot_table()

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			3
			4

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pandas.pivot_table()

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			4

	1	3
	2	

pandas.pivot_table()

			1
			2
			3
			4

	1	3
	2	4

两种窗口操作

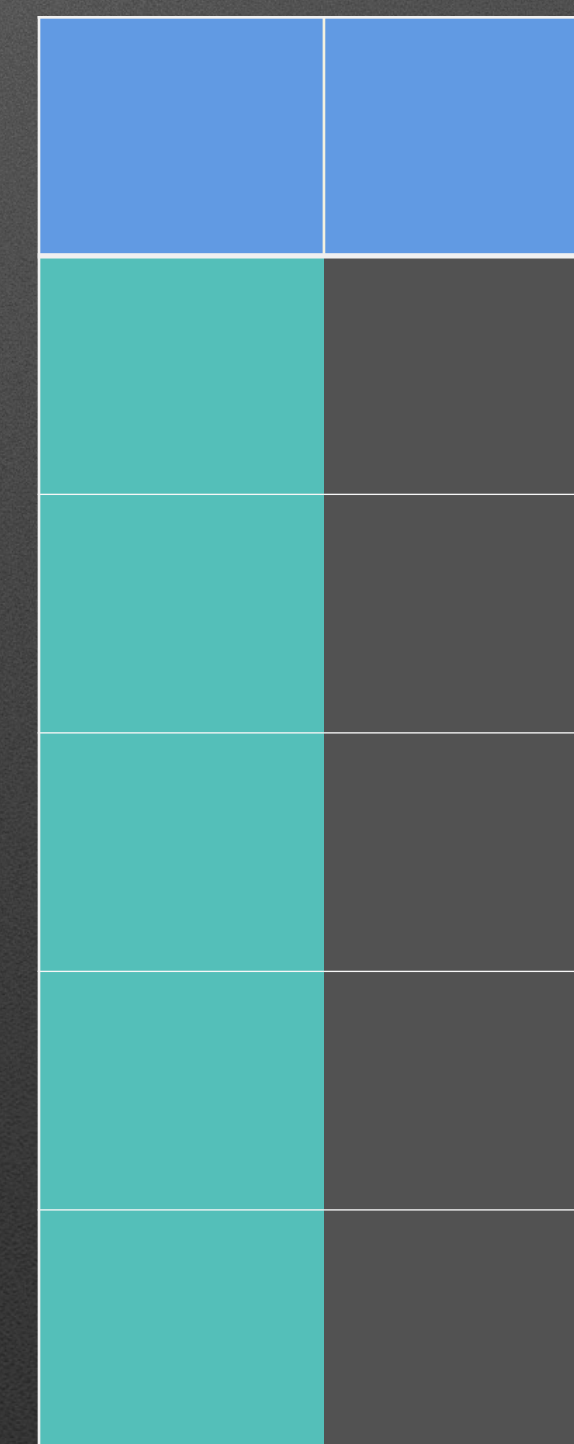
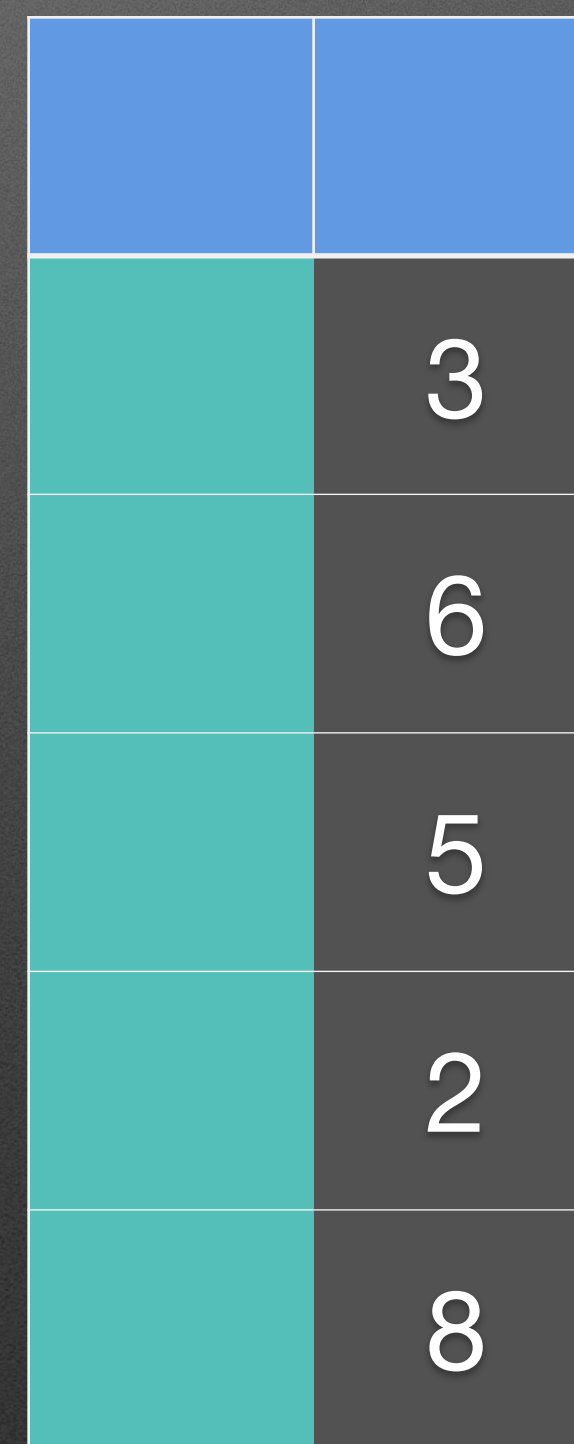
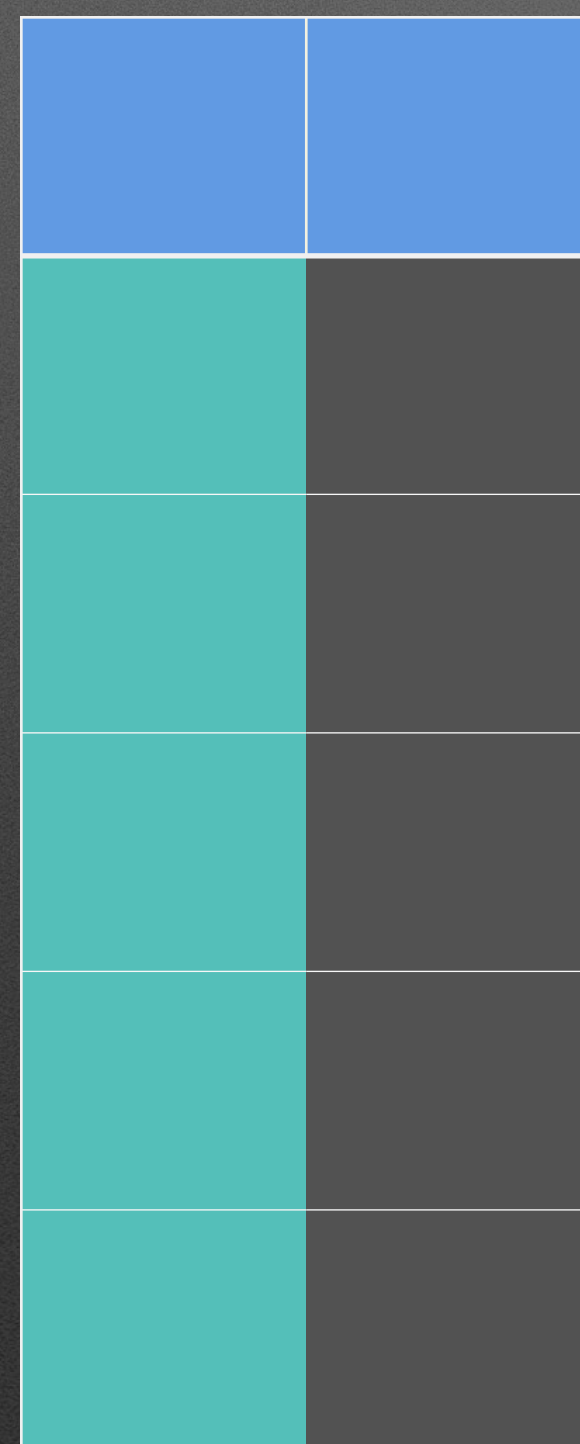
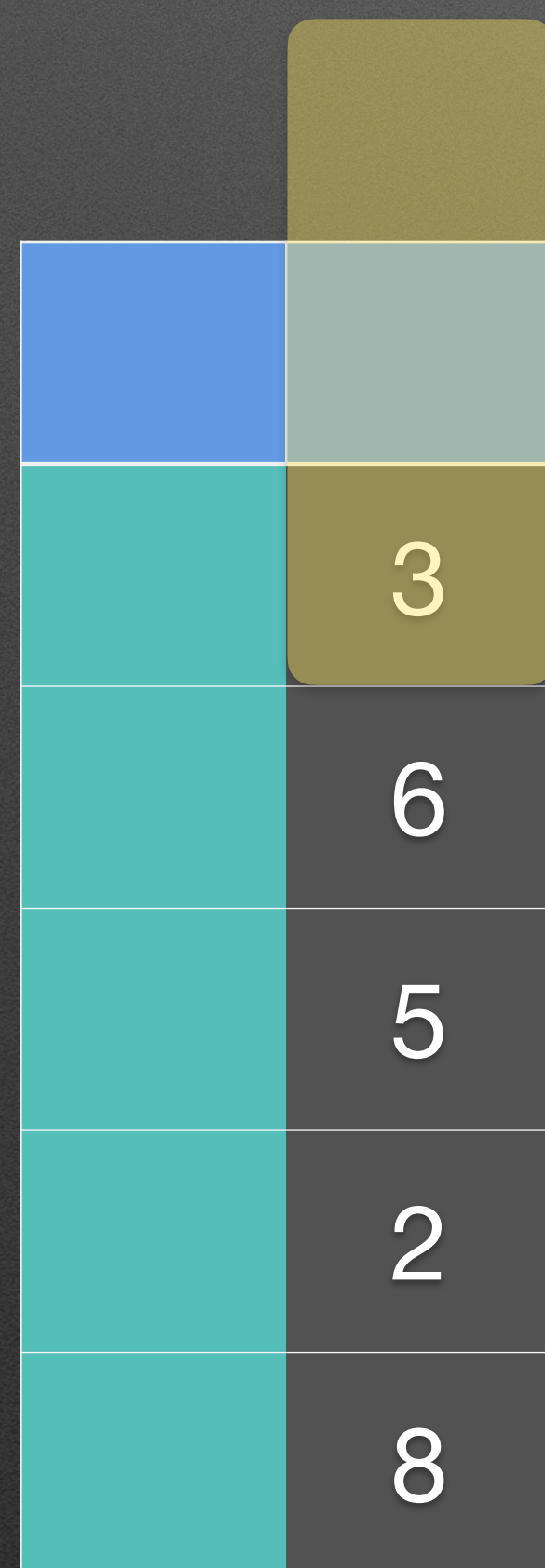
rolling()

	3
	6
	5
	2
	8

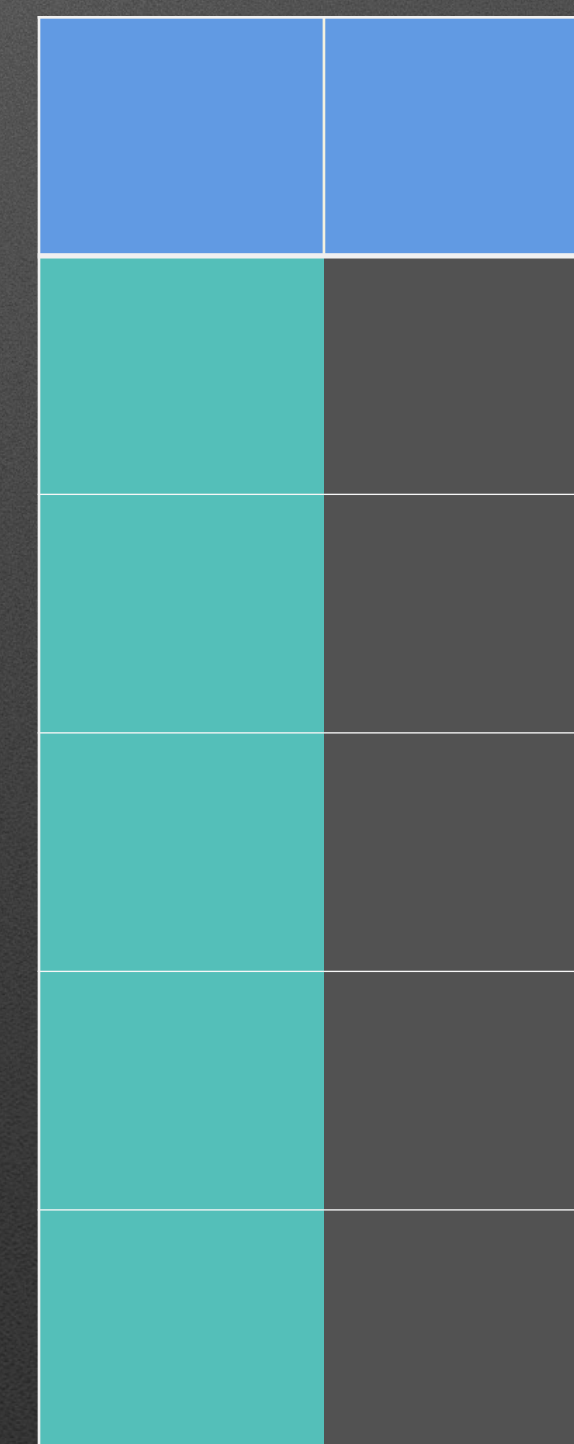
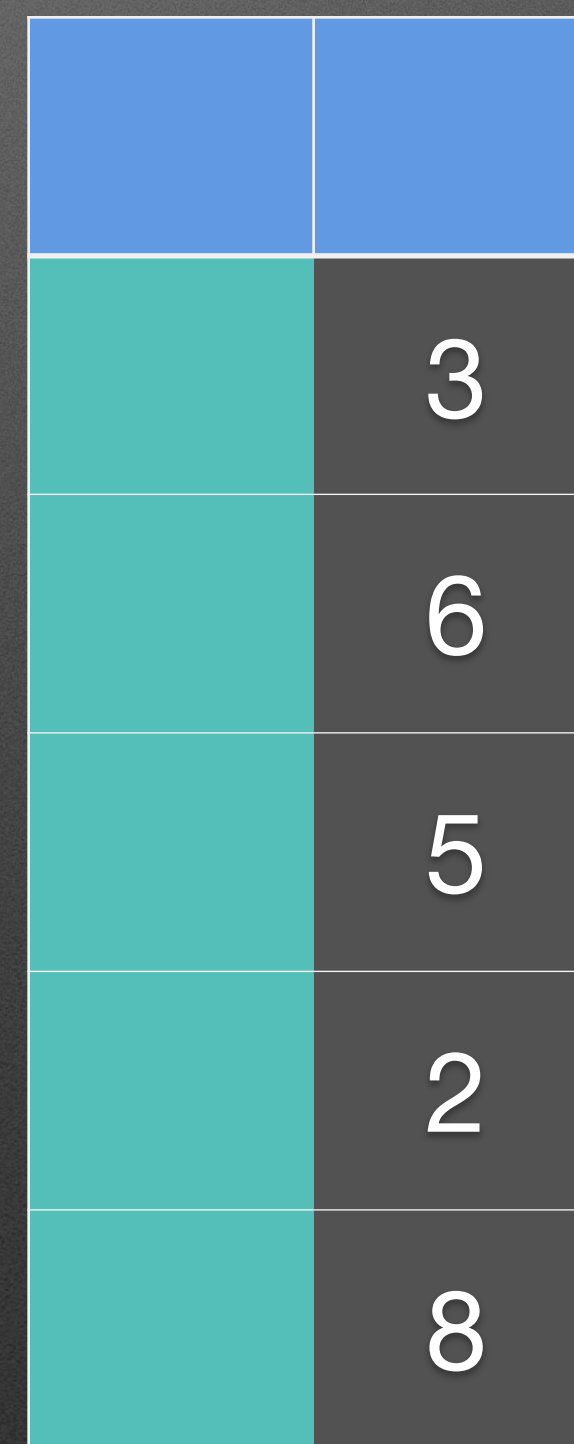
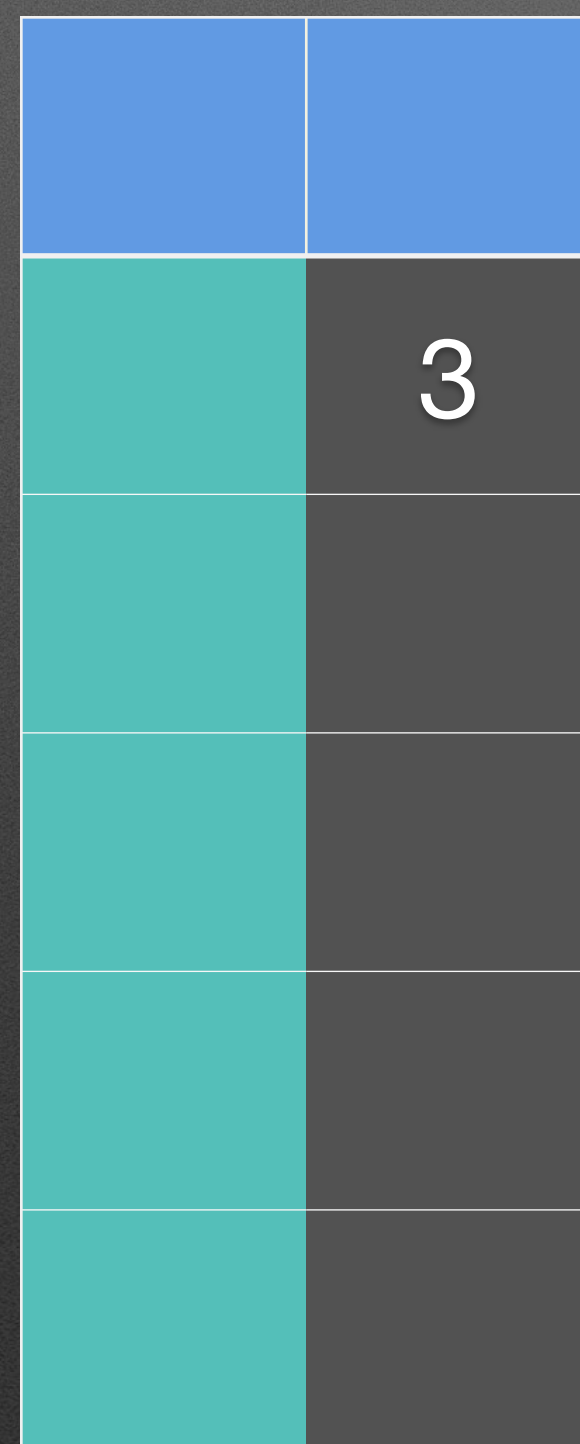
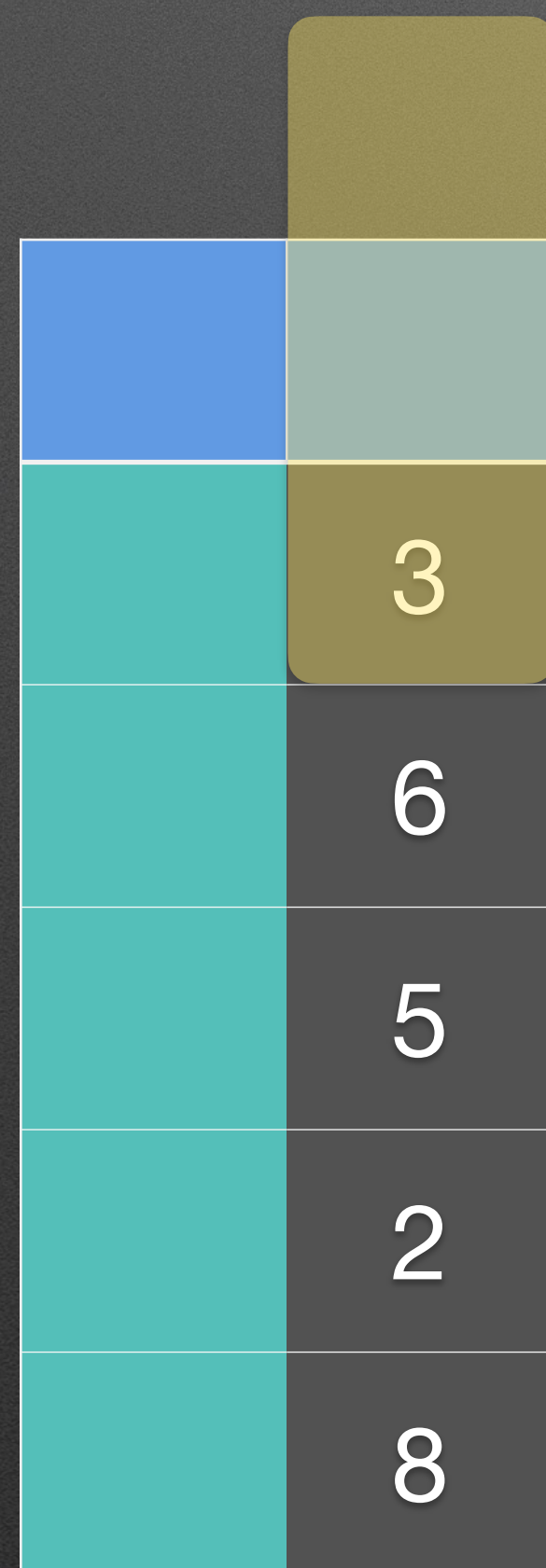
expanding()

	3
	6
	5
	2
	8

两种窗口操作



两种窗口操作



两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14
	16

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14
	16

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14
	16
	24

两种窗口操作

rolling()

	3
	6
	5
	2
	8

	3
	9
	14
	13
	15

expanding()

	3
	6
	5
	2
	8

	3
	9
	14
	16
	24

pandas.pivot_table()要

			1
			2
			3
			4

	1	3
	2	4

pandas.pivot_table()

A 4x4 grid with the following color pattern:

Blue	Blue	Blue	Blue
Teal	Yellow	Pink	Dark Grey (1)
Teal	Yellow	Purple	Dark Grey (2)
Teal	Orange	Pink	Dark Grey (3)
Teal	Orange	Purple	Dark Grey (4)

A red-bordered rounded rectangle highlights the cells (Row 2, Column 3), (Row 3, Column 3), (Row 4, Column 3), and (Row 5, Column 3). The numbers 1, 2, 3, and 4 are positioned to the right of the grid, corresponding to the rows of the highlighted path.

pandas.pivot_table()

			1
			2
			3
			4

	1	3
	2	4