Position-based Indexing (**iloc**)

df.iloc[row index position(s), column index position(s)]

column index positions

		-5	-4	-3	-2	-1
		0	1	2	3	4

row index positions

		Player	**Nationality**	**Club**	**World_Champion**	**Height**	**Goals_2018**
-5	0	Lionel Messi	Argentina	FC Barcelona	False	1.70	45
-4	1	Cristiano Ronaldo	Portugal	Juventus FC	False	1.87	44
-3	2	Neymar Junior	Brasil	Paris SG	False	1.75	28
-2	3	Kylian Mbappe	France	Paris SG	True	1.78	21
-1	4	Manuel Neuer	Germany	FC Bayern	True	1.93	0

Zero-based indexing applies!

Position-based Indexing (**iloc**) – Example 1

```
df.iloc[2, 1]
```

		-5	-4	-3	-2	-1
		0	1	2	3	4
		Nationality	Club	World_Champion	Height	Goals_2018
	Player					
-5	0	Lionel Messi	Argentina	FC Barcelona	False	1.70	45
-4	1	Cristiano Ronaldo	Portugal	Juventus FC	False	1.87	44
-3	2	Neymar Junior	Brasil	Paris SG	False	1.75	28
-2	3	Kylian Mbappe	France	Paris SG	True	1.78	21
-1	4	Manuel Neuer	Germany	FC Bayern	True	1.93	0

Output is an element („Paris SG").

Position-based Indexing (**iloc**) – Example 2

```
df.iloc[[2,3], 1:]
```

from position 1 till last (inclusive)

		1	2	3	4
		Club	World_Champion	Height	Goals_2018
	Player				
2	Neymar Junior	Paris SG	False	1.75	28
3	Kylian Mbappe	Paris SG	True	1.78	21

Output is a DataFrame.

Position-based Indexing (**iloc**) – Example 3

all columns

```
df.iloc[1:3, :]
```

inclusive   exclusive

		0		1		2	3	4
	Player	**Nationality**		**Club**		**World_Champion**	**Height**	**Goals_2018**
1	Cristiano Ronaldo	Portugal		Juventus FC		False	1.87	44
2	Neymar Junior	Brasil		Paris SG		False	1.75	28

Output is a DataFrame.

Position-based Indexing (**iloc**) – Example 4

`df.iloc[-2:, 3]`

last two rows

		3
	Player	
-2	3	Kylian Mbappe	1.78
-1	4	Manuel Neuer	1.93

Name: Height, dtype: float64

Output is a Pandas Series.