

自定义Pokemon数据 - 创建DataFrame



导入相关库

```
1 import pandas as pd
```

创建一个数据字典

```

1 raw_data = {"name": ['Bulbasaur',
2   'Charmander', 'Squirtle', 'Caterpie'],
3   "evolution":
4   ['Ivysaur', 'Charmeleon', 'Wartortle', 'Metapod'],
5   "type": ['grass', 'fire', 'water', 'bug'],
6   "hp": [45, 39, 44, 45],
7   "pokedex": ['yes', 'no', 'yes', 'no']}

```

将数据字典存为一个名叫pokemon的数据框中

```

1 pokemon = pd.DataFrame(raw_data)
2 pokemon.head()

```

```

1 <tr style="text-align: right;">
2   <th></th>
3   <th>evolution</th>
4   <th>hp</th>
5   <th>name</th>
6   <th>pokedex</th>
7   <th>type</th>
8 </tr>

```

```
1 <tr>
2   <th>0</th>
3   <td>Ivysaur</td>
4   <td>45</td>
5   <td>Bulbasaur</td>
6   <td>yes</td>
7   <td>grass</td>
8 </tr>
9 <tr>
10  <th>1</th>
11  <td>Charmeleon</td>
12  <td>39</td>
13  <td>Charmander</td>
14  <td>no</td>
15  <td>fire</td>
16 </tr>
17 <tr>
18  <th>2</th>
19  <td>Wartortle</td>
20  <td>44</td>
21  <td>Squirtle</td>
22  <td>yes</td>
23  <td>water</td>
24 </tr>
25 <tr>
26  <th>3</th>
27  <td>Metapod</td>
28  <td>45</td>
29  <td>Caterpie</td>
30  <td>no</td>
31  <td>bug</td>
32 </tr>
```

**数据框的列排序是字母顺序，请重新修改为
name, type, hp, evolution, pokedex这个顺序**

```
1 pokemon = pokemon[['name', 'type', 'hp', 'evolution',  
  'pokedex']]  
2 pokemon
```

```
1 <tr style="text-align: right;">  
2   <th></th>  
3   <th>name</th>  
4   <th>type</th>  
5   <th>hp</th>  
6   <th>evolution</th>  
7   <th>pokedex</th>  
8 </tr>
```

```
1 <tr>
2   <th>0</th>
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21  <td>44</td>
22  <td>Wartortle</td>
23  <td>yes</td>
24 </tr>
25 <tr>
26  <th>3</th>
27  <td>Caterpie</td>
28  <td>bug</td>
29  <td>45</td>
30  <td>Metapod</td>
31  <td>no</td>
32 </tr>
```

添加一个列place

```
1 pokemon['place'] = ['park', 'street', 'lake', 'forest']
2 pokemon
```

```
1 <tr style="text-align: right;">
2   <th></th>
3   <th>name</th>
4   <th>type</th>
5   <th>hp</th>
6   <th>evolution</th>
7   <th>pokedex</th>
8   <th>place</th>
9 </tr>
```

```
1 <tr>
2   <th>0</th>
3   <td>Bulbasaur</td>
4   <td>grass</td>
5   <td>45</td>
6   <td>Ivysaur</td>
7   <td>yes</td>
8   <td>park</td>
9 </tr>
10 <tr>
11   <th>1</th>
12   <td>Charmander</td>
13   <td>fire</td>
14   <td>39</td>
15   <td>Charmeleon</td>
16   <td>no</td>
17   <td>street</td>
18 </tr>
19 <tr>
20   <th>2</th>
21   <td>Squirtle</td>
22   <td>water</td>
23   <td>44</td>
24   <td>Wartortle</td>
25   <td>yes</td>
26   <td>lake</td>
27 </tr>
28 <tr>
29   <th>3</th>
30   <td>Caterpie</td>
31   <td>bug</td>
32   <td>45</td>
33   <td>Metapod</td>
34   <td>no</td>
```

```
35 | <td>forest</td>
36 | </tr>
```

查看每个列的数据类型

```
1 | pokemon.dtypes
```

```
1 | name          object
2 | type          object
3 | hp            int64
4 | evolution     object
5 | pokedex       object
6 | place         object
7 | dtype: object
```