

2_mutability and immutability

August 22, 2023

```
[3]: s='smily'
```

```
[5]: s[1]
```

```
[5]: 'm'
```

```
[6]: s[-1]
```

```
[6]: 'y'
```

```
[7]: l=[1,'a','smily',True]
```

```
[8]: l[0]
```

```
[8]: 1
```

```
[9]: l[-1]
```

```
[9]: True
```

```
[10]: l[1]='b'    # list is mutable
```

```
[11]: l
```

```
[11]: [1, 'b', 'smily', True]
```

```
[12]: s[1]='x' # string is immutable
```

```
-----  
TypeError
```

```
Traceback (most recent call last)
```

```
Cell In[12], line 1
```

```
----> 1 s[1]='x'
```

```
TypeError: 'str' object does not support item assignment
```

```
[ ]:
```