

# Arrays

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# Exercise 1: Differences

What can a list do that an array can't?

Why would a programmer use arrays anyway?

## Exercise 2: Example Uses

```
import numpy as np
tic_tac_toe = np.array([[1, 2, 2], [2, 1, 2], [2, 2, 1]])

print(tic_tac_toe)
print(tic_tac_toe[0])
print(tic_tac_toe[0:])
print(tic_tac_toe ** 2)
print(tic_tac_toe > 1)

for item in tic_tac_toe:
    print(item)
```

## Exercise 3: String arrays

Create a list named `squidward` with the contents of “It”, “sure”, “is”, “nice”, “driving”, “my”, “2020”, “Chevy”, “Silverado”.

Create a list named `spongebob` with the contents of “Hi, S”, “q”, “u”, “i”, “d”, “w”, “a”, “r”, “d”.

Create an `np.array` with these two lists.