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Rounding Decimals

There are primarily five ways of rounding off decimals in NumPy:

- truncation
- fix
- rounding
- floor
- ceil

Truncation

Truncate to integer closest to zero. Use the trunc() and fix() functions.

Example

Truncate elements of following array:

```
import numpy as np
arr = np.trunc([-3.1666, 3.6667])
print(arr)
```

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Rounding

The around() function increments preceding digit or decimal by 1 if >=5 else do nothing.

E.g. round off to 1 decimal point, 3.16666 is 3.2

Example

Round off 3.1666 to 2 decimal places:

```
import numpy as np
arr = np.around(3.1666, 2)
print(arr)
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```

Floor

The floor() function rounds off decimal to nearest lower integer.

```
E.g. floor of 3.166 is 3.
```

Example

Floor the elements of following array:

```
import numpy as np
arr = np.floor([-3.1666, 3.6667])
print(arr)
```

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Note: The floor() function returns floats, unlike the trunc() function who returns integers.

Ceil

The ceil() function rounds off decimal to nearest upper integer.

E.g. ceil of 3.166 is 4.

Example

Ceil the elements of following array:

```
import numpy as np
arr = np.ceil([-3.1666, 3.6667])
print(arr)
```

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