Shift Operators

Shift operators, just like bitwise operators, allow you to manipulate bits at a low level inside objects. There are 3 main shift operators in Dart and those are “>>” which shifts a value to the right, “<<” that shifts the value to the left and the “>>>” which shifts a value to the right as an unsigned value. Together these operators allow you to shift right and left your integers.

Further reading:

- Bitwise and shift operators - dart.dev
- Dart Operators - Javatpoint
- Bitwise and Shift Operators - Flutter by Example
- Bitwise and Shift Operators - educative.io
- Shift operator - Wikipedia

Examples

```dart
// the hexadecimal value of 0x01 is equivalent to the
// binary value of 0001, hence shifting it to the left
// 1 place will change the vlaue to 0010, filling the
// right side with a zero. 0010 in base-10 is 2
print(0x01 << 1);
// the hexadecimal value of 0x02 is equal to 0010 in
// binary and shifting it to the left 2 places makes
// it equal to 1000, which is 8 in base-10
print(0x02 << 2);
// you can shift your values to the left and right
// as much as you want, but shifting a value to
// the left loses 1 binary value from the left
// with each shift, similar to how shifting a
// value to the right loses one binary value from
// the right with each shift
```