## **Javascript Operator Precedence**

| Precedence | Operator type                | Associativity   | Individual operators |
|------------|------------------------------|---|----------------------|
| 19         | Grouping                     | n/a   |                      |
| 18         | Member Access                | left-to-right   | •                    |
|            | Computed Member Access       | left-to-right   |                      |
|            | new (with argument list)     | n/a   | new                  |
| 17         | Function Call                | left-to-right   |                      |
|            | new (without argument list)  | right-to-left   | new                  |
| 16         | Postfix Increment            | n/a   |                      |
|            | Postfix Decrement            | n/a   |                      |
| 15         | <u>Logical NOT</u>           | right-to-left   |                      |
|            | Bitwise NOT                  | right-to-left   | ·                    |
|            | <u>Unary Plus</u>            | right-to-left   |                      |
|            | Unary Negation               | right-to-left   |                      |
|            | Prefix Increment             | right-to-left   |                      |
|            | Prefix Decrement             | right-to-left   |                      |
|            | typeof                       | right-to-left   | typeof               |
|            | void                         | right-to-left   | void                 |
|            | <u>delete</u>                | right-to-left   | delete               |
| L4         | Multiplication               | left-to-right   |                      |
|            | <u>Division</u>              | left-to-right   |                      |
|            | Remainder                    | left-to-right   |                      |
| 13         | <u>Addition</u>              | left-to-right   |                      |
|            | <u>Subtraction</u>           | left-to-right   |                      |
| 12         | Bitwise Left Shift           | left-to-right   |                      |
|            | Bitwise Right Shift          | left-to-right   |                      |
|            | Bitwise Unsigned Right Shift | left-to-right right-to-left n/a n/a right-to-left left-to-right left-to-right left-to-right left-to-right   |                      |
| 11         | <u>Less Than</u>             | left-to-right right-to-left n/a n/a right-to-left right-to-left right-to-left right-to-left right-to-left right-to-left right-to-left right-to-left right-to-left left-to-right |                      |
|            | Less Than Or Equal           | left-to-right   |                      |
|            | <u>Greater Than</u>          | left-to-right   |                      |
|            | Greater Than Or Equal        | left-to-right   |                      |
|            | <u>in</u>                    | left-to-right   | in                   |
|            | instanceof                   | left-to-right   | instanceof           |
| 10         | Equality                     | left-to-right   |                      |
|            | Inequality                   | left-to-right   |                      |
|            | Strict Equality              | left-to-right   |                      |
|            | Strict Inequality            | left-to-right   |                      |
| 9          | Bitwise AND                  | left-to-right   | &                    |

| 8 | Bitwise XOR      | left-to-right |              |
|---|------------------|---------------|--------------|
| 7 | Bitwise OR       | left-to-right |              |
| 6 | Logical AND      | left-to-right | &&           |
| 5 | Logical OR       | left-to-right |              |
| 4 | Conditional      | right-to-left | :            |
| 3 | Assignment       | right-to-left |              |
| 2 | <u>yield</u>     | right-to-left | yield        |
| 1 | <u>Spread</u>    | n/a           |              |
| 0 | Comma / Sequence | left-to-right | <sub>1</sub> |

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