javascript in one pic

Tips

Scope

Execution context

- global

```
+-------------+        +-------------------+
|Node         |        |Execution Context  |
+-------------+        +-------------------+
|global = {   |        |{Variable Object} = {
|             |        |                   |
|};           |        |  variables        |
|             |        |                   |
+-------------+        |  data             |
                       |                   |
+-------------+        |  functions        |
|Browser      |        |                   |
+-------------+        |  objects          |
|window = {   |        |                   |
|             |        |  ...              |
|};           |        |                   |
|             |        |                   |
+-------------+        +-------------------+
```

- context stack

```
+-----------------------------------+
|function b() // create new context +------+
|                                   |      |
|{Variable Object = {               |      |
|  arguments = ...;                 |      |
|                                   |      |
|};                                 |      |
|Scope chain =                      |      |
| +-----------------------------+   |      |
| |{Global                      |   |      |
| |  +----{ f = 'no';           |   |      |
| |  |                          |   |      |
| |  +----> function a(){       |   |      |
| |  |        +----> f = 'yw'   |   |      |
| |  |                          |   |      |
| |  +----> function b(){       |   |      |
| |  |                 +---->   |   |      |
| |  |                 +---->   |   |      |
| |  |                          |   |      |
| |  +----------------------    |   |      |
| +-----------------------------+   |      |
| ---------------------------------|-------+
| this = {Object owns b};           |
+-----------------------------------+
```

```
+-----------------+
|                 |
|                 |
|                 |
```