Source Code transformations

For all global built-in objects, functions, and libraries:

- create a surrogate object
- map global variables by adding prefix AG
- exception for <u>instanceof</u>
- Enclose all non-number property names in `backticks`
- Replace a [b] with ACqetItem(a,b) *
- Replace a.b with ACgetItem(a, "b") *

```
var f = function f (x) {
    console.log(x);
    return {
        foo : 'bar',
        '10' : 20
    };
};

var f = function f (x) {
    ACgetItem(AGconsole, "log")(x);
    return {
        '`foo`' : 'bar',
        '10' : 20
    };
};
```

Runtime Transformations

- ACqetItem(a, "b") returns a ["`b`"]
- if <u>(! isNaN(y))</u>, then
 ACgetItem(x,y) returns x[y]
- ACgetItem(a, "length") returns a.length, ...