**Eris-Contracts Data Types From Javascript to Solidity**

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| **SOLIDITY** | **JAVASCRIPT** |
| string | String |
| bytes32 | Hexadecimal String  ex. “18931a32e3a” |
| bytes32[100] | Array (of size 100) of Hexadecimal Strings  ex. [“abc123”, “ab3”, “0”,”0”….”0”] |
| uint | Int greater than or equal to zero (ex. 5) |
| ufixed | double |
| address | String of address, does NOT start with 0x  (ex. “AFDBC381AF4B8CFA177BBEF6B4E378BE2DA7F31A”) |
| address[100] | Array (of size 100) of Address Strings |

Note, in Solidity, we cannot pass arbitrary sized arrays. They must be predefined. Also note that we cannot pass any array of strings, even if it is fixed size.

Note, suppose you require an array int[100] in solidity. When someone communicates to your javascript application, they may not want to pass in the full array with null values. So if they pass in the array,

myArray = [1,2,3],

Make sure to add the additional spots in the array before calling the contract in solidity. This can be done as follows.

for(var i = myArray.length - 1; i < 100; i++)

{

myArray[i] = 0;

}