

< symbio >



SERIOUS ABOUT SOFTWARE

Qt Quick – JavaScript primer

Timo Strömmer, Jan 3, 2011

JAVASCRIPT IN QML

JavaScript overview

- Scripting language by Netscape
 - Later standardized as ECMAScript
 - Not much in common with Java
- Properties
 - Prototype-based, object-oriented
 - Dynamic typing and run-time evaluation
 - First-class functions and closures
- Examples in *JavaScriptFuncs* directory

QML objects

- QML script objects
 - Core JavaScript objects supported
 - *String, Date, Math, RegExp, Array, Boolean*
 - *XMLHttpRequest* for fetching data
 - Reduced subset of DOM API
 - *Qt* object has useful functions
 - Dynamic component creation, script file include
 - *Database API*
- See *QML Global Object* entry in Qt docs

JSON primer

- JavaScript Object Notation
 - "Fat-free alternative for XML"
 - Text-based data interchange format
 - Basically JavaScript objects in text format
- Widely used in web services
 - For example Google, Facebook

JSON and QML

- JSON API built-in QML engine

```
var xhr = new XMLHttpRequest;
xhr.open("GET", url);
xhr.onreadystatechange = function() {
    if (xhr.readyState == XMLHttpRequest.DONE) {
        var response = JSON.parse(xhr.responseText);
    }
}
xhr.send();
```

< symbio >



SERIOUS ABOUT SOFTWARE

