MBS Xojo Plugins

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Ongoing development

- a new prerelease version of plugins about every week

- Releases every 2 months

- Please keep up to date
  - so you don't run into fixed bugs

  - your app is not vulnerable due to old libraries

  - 16.2 has updated SSL/SSH/CURL

  - 16.2 release next week

New in MBS World

- New Kits

  - MBS Xojo Event Kit

  - MBS Xojo Network Kit

  - MBS Xojo AudioPlayer Kit

  - MBS Xojo AddressBook Kit

  - MBS Xojo Encryption Kit

MBS Xojo Event Kit

- Complete wrapper of EventKit for OS X and iOS

- 18 classes

- Written in Xojo with declares

- Full source code included

MBS Xojo Event Kit

- Query/Get access to the internal calendar and reminder database

- Create, modify and delete reminders and events

- Handle multiple sources of calendar data

- Query participants for events

- Asynchronously fetch events or reminders

- Build search parameters using predicates

- Handle recurrence rules in various aspects

Kit features

- For new Xojo framework

- Using exception handling to track error

- Using enums for saver constant passing

- Test code included

- All classes with MB postfix to avoid name conflicts.

- All module definitions are protected to avoid conflicts

- Inline documentation

- Full Source code, no encrypted code.

- Works for 32bit and 64bit targets on iOS. 64-bit Mac, too.

MBS Xojo Network Kit

- Two parts:

  - Bonjour classes for network discovery

  - NSConnection for download/upload

MBS Xojo Network Kit

- Bonjour classes for network discovery

  - Asynchronously browses for domains to use

  - Asynchronously browses for services with given type

  - Asynchronously publishes services

  - Query/publish TXT Record data.

  - Function to check for events on console projects.

  - Parse code for IP addresses, supporting IPv4 and IPv6

MBS Xojo Network Kit

- HTTP and HTTPS support.

- FTP download support.

- Synchronously and asynchronously transfers

- Load to memory or file

- Supply HTTP Header fields

- Supply HTTP Body for upload

- Supply HTTP Method like GET, PUT, POST or others.

- Control about cache handling

- Can use pipelining with HTTP 1.1

- Define if to use cellular network or not.

MBS Xojo AudioPlayer Kit

- Play sounds loaded from memory and file

- Events like DidFinishPlaying

- Audio Channel assignment

- Average and peak power per channel

- Volume, pan and rate controls

- Play, pause and stop methods

- Query/set current position

MBS Xojo Addressbook Kit

- Complete Wrapper for iOS Addressbook framework.

- Query sources, groups and people

- Read/modify/delete values

- Get/set images for persons.

MBS Xojo Encryption Kit

- Three parts

  - Wrapper for OS X and iOS CommonCrypto framework.

  - Compression/Decompression functions using zlib.

  - Database Connector for encrypted database queries from iOS to server app.

MBS Xojo Encryption Kit

- Wrapper for OS X and iOS CommonCrypto framework.

  - Hashes with various algorithms: MD2, MD4, MD5, SHA1, SHA224, SHA384, SHA256 and SHA512

  - Key derivation with PBKDF2

  - Encryption with AES, Blowfish, DES and others

  - Hardware accelerated

  - Key wrapping with AES

  - Projects for Desktop, iOS, Web and Console using our classes.

MBS Xojo Encryption Kit

- Compression/Decompression functions using zlib.

  - Zlib wrapper for Compression and Decompression of memory blocks in memory.

  - For Win/Linux with MBS Compression Plugin

MBS Xojo Encryption Kit

- Database Connector for iOS

- Encrypted connection to server app

- over TCP/IP sockets

- Any database type, example with SQLite

- Desktop Client with synchronous functions

- iOS Client with asynchronous functions

New in MBS World

- New Plugins

  - DynaPDF 4.0

  - ChartDirector 6.0

  - New 64-bit targets and Linux ARM 32-bit

DynaPDF 4.0

- DynaPDF 3 is finished.

- DynaPDF 4 development started

  - working on editor features

    - edit any part in PDF, e.g. replace images

  - working on optimizer features

    - reduce image quality for smaller PDFs

DynaPDF News

- ExtractPageTextRect ➜ Left column, Right Column

- DynaPDF Trace to log all function calls.

  - for debugging

- Better font enumeration functions

DynaPDF Convenience

- Easier ColorSpace queries

  - all from current page

  - all from document

- Colorspaces with ICC Profile based properties

- More default parameters

- ImportPDFPage function

DynaPDF Show Difference

Urna Semper

Name des Lehrers

22. September 2015

Geologischer Bericht

Sed et lacus quis enim mattis nonummy

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Name des Lehrers

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Geologischer Bericht

Sed et lacus quis enim mattis nonummy

Urna Semper

Instructor's Name

22 Sep 2015

Geology 101 Report

Sed et lacus quis enim mattis nonummy

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ChartDirector Plugin

- using ChartDirector 6.0

  - Output Charts as PDF

  - Relative Gradients

  - New Glare Effects

  - Improved SVG support

- ScaleFactor for easier Retina/HiDPI support

SQL Plugin

- Updated regularly to latest SQLAPI version.

  - Added SQL Anywhere

  - Regular bug fixes from huge community

- We licensed SQLAPI for all SQL Plugin users.

- Now serving: Oracle, MS SQL Server, DB2, Sybase, SQL Anywhere, Firebird, Informix, InterBase, SQLBase, MySQL, PostgreSQL, ODBC and SQLite

SQL Plugin: News

- Optional caching of recordsets locally.

  - allows MovePrev, MoveFirst & MoveLast for all DBs

- Prepared Statement with ? for compatibility

- Option passing from connection to command.

- DidConnect event

SQL Plugin: Threading

- SQLDataProviderMBS and SQLDataConsumerMBS yield time for other threads.

- SQL Parsing now threaded

- ConnectMT: connect and not block User Interface

- Auto retry for MySQL with deadlocks

SQL Plugin: Debugging

- LastStatment property

- Trace Events

- See Parameters and Fields in Debugger

SQL Plugin: SQLite

- Internal SQLite library

- Supports AES128, AES256 and RC4 encryption.

- Updated regularly to latest SQLite +SEE version.

- SetBusyTimeout and SetBusyHandler

- Added FTS5 and JSON extensions.

SQL Plugin: PostgreSQL

- Internal PostgreSQL library available for Mac/Linux

- PostgresNotification event

- Listen method

CURL Plugin

- Email attachments from folderitem

- Inline attachments

- Wild Card support for FTP downloads

- CURLSFileInfoMBS class for directory listings

CURL Plugin Convenience

- Verbose on by default

- VerifyHost and VerifyPeer off if no certificates

- Collect debug, result and header automatically in memory if not streaming or event writing.

- Now using 64-bit integers for file offsets by default

CURL Plugin Email

- Parse Emails

- Extract content

  - with right text encoding

- Email reader example project

- IMAP and POP3 email clients

- Converts HTML to plain text if needed

AVFoundation Plugin

- Audio Node classes

- Audio Unit classes

- AVMidiPlayer class

- AVMovie classes

Other plugins

- FileListMBS for ultra fast cross platform file listings

- WindowsPlayerMBS

- HIDAPI classes

- HotkeyMBS

- Sign and Verify with RSA & Elliptic Curve Signatures

- WordFile functions

Features in development

- Archive Classes

  - ar, tar, pax, zip, 7zip and more

  - bzip2, GZip, LZMA, UUEncode, LZip and more

  - Read/Write archives

  - File attributes and permissions preserved

Features in development

- Contacts Framework for Mac

  - Edit/Create/Delete contacts in Addressbook

  - New API for 64-bit and iOS

  - Replacement for Addressbook framework

  - Asynchronous API

  - see also EventKit for events & reminders

Things we do

- Support new targets

- Get more functions cross platform

- Keep things working for you!

Q & A

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