OOoCon 2005



Addons From production to end-users

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Agenda

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- Why this topic ?
- Addons, Extensions ?
- What for ?
- Organizing addons
- Producers needs
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- Native-Lang relay
- Summary
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Speaker introduction

- 35 years old, married, four children
- Living near Grenoble France
 - Grenoble is in french Alpes
- Discovered OOo 3 years ago
- Involved early in OOo macros
- Author of various tools
 - OOoConv, DicOOo, FontOOo, OOoWikipedia ...



- Community contributor representative
- Technical director/software engineer at InDesko/Nuxeo
- In a previous life :
 - PhD of geomechanics at 3S Laboratory Grenoble
 - « Robustness and consistency in rheological and numerical modelling in geomechanics »





Why this topic?

- New macros developers comes from other office suite as OOo grows in audience
 - They want to find the toys they had before
 - They have some work knowledge they share
 - They know nothing about OOo organization and tools
- OOo needs functionalities
 - It implies that it at least needs developers What kind of developers
- OOo 2 is a great step in term of scripting and addon creation
 - New scripting languages
 - Package manager
- How users are away that new functionalities are available through extensions?

It is now time to organize the extension creations for OOo





Addons, Extensions?

- A self-contained Zip file allowing to add functionalities to OOo
 - The source code
 - Some configuration files dealing with GUI integration, parameters
 - Other needed resources (icons, images ...)
- Deployable with OOo standard tools
 - 1.x: using the command line tool pkgchk
 - 2.x: unopkg command line tool, a GUI is provided
- Integrated: Fits OOo admin model
 - For one single user, put in <000User>/users directory
 - For the whole OOo install (all users), put is <ooolnstall>/share directory
- All is explained in the developer's guide, chapter 4 (4.7.3 for add-ons)
 - http://api.openoffice.org/docs/DevelopersGuide/Components/Compo
- See Paolo Montavani presentation





What for?

- OOo needs functionalities and developers
- Core development
 - Requires skills such as C++, Java
 - Tools and framework (CVS, building tools, compiler ...)
 - Long term involvement, learning curve
- Prevents some developers to come and bring features to OOo
- As scripting, lot of languages can be used, especially with the coming OOo2.0
 - User can program in their favourite languages and use OOo API for internal OOo scripting with Java, Python, Basic ...
- Everyone that have some tools or idea simplifying end-user
 OOo daily experience can develop an addon and share it





Organizing addons

Goals:

- Even newcomers with minimal knowledge of development tools should be able to program addons and know the rules to complies with
- New addons should be advertised, reviewed and listed in a central repository instead of being spread throughout individual websites.
- End-users should be able to install easily all the addons available in the repository





Organizing addons

- Tools
 - For developers
 - For distributing to end users
- Policies & Guidelines
 - What kind of licences ?
 - Coding guidelines and best practices
- Native-lang projects involvements
 - Helping native-lang addon developers submitting and joining the project
 - Translators





Producers needs

- Easy to access information
 - Quick start guides
 - Mentors, dealing only with the "addon" stuff but forward them to correct resources when dealing with API
 - First steps in their native languages if needed
- Helper tools
 - Some blank, ready to use, helpers implementing best practices
 - Pre-programmed framework for translation, parameters handling, help ...
- Guidelines and rules to participate to OOo
 - Coding guidelines for all the supported programming languages
 - Somewhere to upload
- Know that such tools exists and where to find them





Already existing tools

- OOoBasic
 - Xray
 - Addon builder
 - Some literature
 - **③**
- Python
 - PyXRay (beta)
 - Helper functions
 - Very few literature
 - **a**
- Java/beanshell
 - SDK
 - Eclipse plugin
 - A lot of tools and literature
 - **3**

- Javascript
 - Something ???
- External, parallel web sites
 - OOoMacros
 - Ian's dokuWiki
 - OooForum
 - Code snippets

Some things already exists which can be a basis if federated





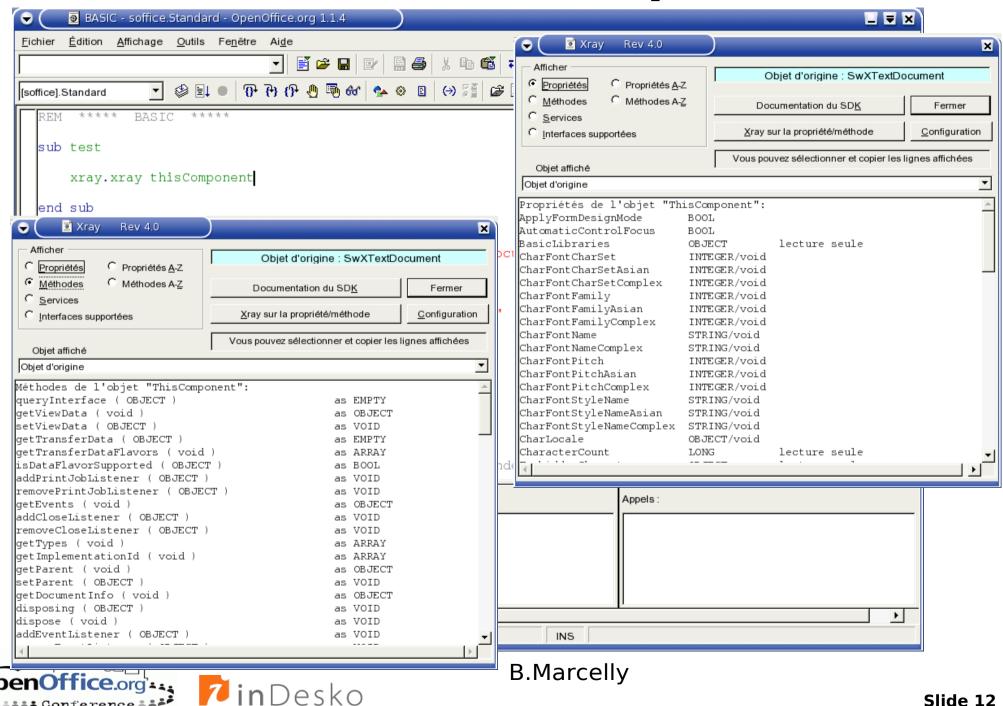
Tools for developpers

- Guidelines document for addon developers
 - The developers guide adapted on some scripting languages
 - Some guidelines and advices
- Xray
 - Mandatory to discover OOo API Should be included in OOo by default
 - Already exists for OOoBasic and Python. Introspection is available at API level
- Addon creator/packager
 - Already exists for OOoBasic (in french)
- Standard model in all the languages supported internally by OOo
 - A standard empty dialog with a navigation mechanism (eg. Panels using step)
 - A common interface to ensure consistency
 - Ready to translate : a built-in translation framework



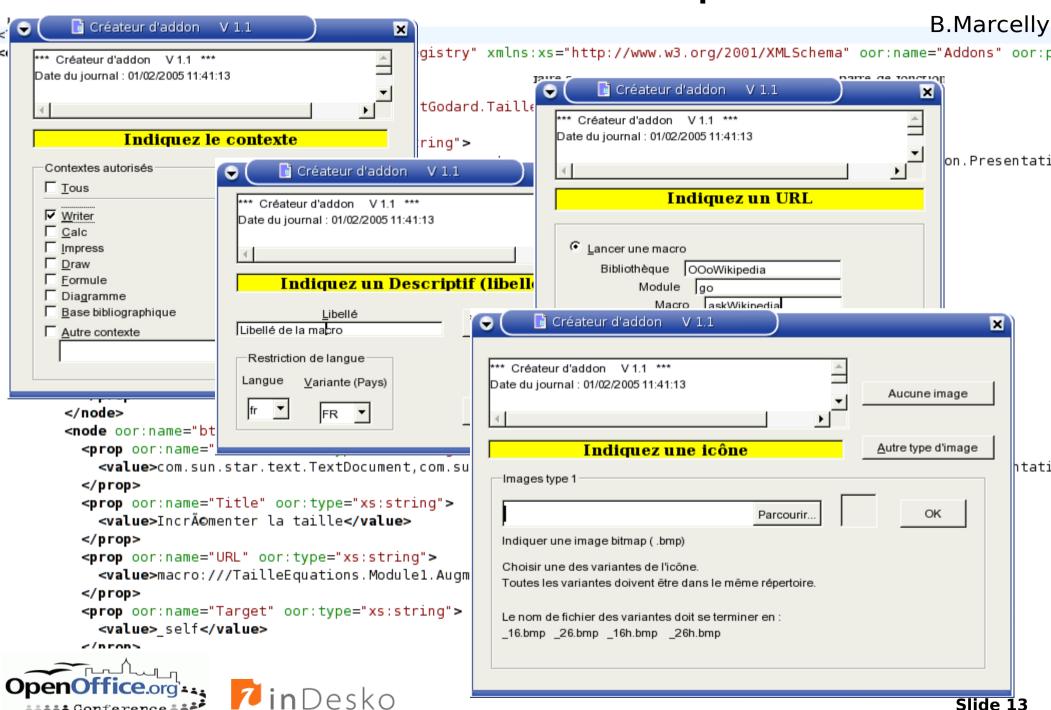


Tools for developers



**** Conference ***

Tools for developers



Policies and guidelines

- OOo is a free multilingual multiplatform software
 - All addons that will be advertised has to be at least under free licence - Do we need to choose among free licences or accept all ?
 - Addon has to be multiplatform and verified on supported OOo platforms
 - OOo is not english-centric : Addons has to be provided in more languages than english only
- Addons has to be checked and tested before being supported by OOo
 - Sources needed
 - Signing or trusting source at least (and md5 ?) for delivering to end-users
 - Mirrored by OOo to be sure the addon will be available. How ?





Policies and guidelines

- If very often used and licensing compliant, the addon will be included into OOo
 - Easy to maintain
 - Fits the internal tools (esp. translations, help files, parameters ...)
- Addons will be used by end-users
 - The UI has to be consistent : the same way driving users through processes
 - No matter the underlying scripting language
 - Close to built-in wizards/autopilots philosophy and rendering
 - Give tools to easy translate the addons and submit the translation:
 often users can translate a set of sentences to make an addon they
 find useful accessible to their native-lang community





Deploy Addons to users

- Not all development have to be included in OOo core
 - Only the one that are used by all users
 - Prefer uno packages
- New OOo features for deploying addons
 - Since 2.0, process is easy for users.
 - The goal is to be able to browse "What's new"
- A repository that can be browsed
 - A new tool for end user that allow install an addon in "one" click
 - Some presentation lines about this addons and metadatas (OOo version, supported languages, addons version, ...)
 - Define several levels to qualify addons
 - •Untrusted (default)
 - Verified / Accepted : the main addons (Signed ?)
 - •Popular / very useful : additional work should perhaps be done for giving it by default into OOo
 - Has to be as simple as possible
 - Users feedback ? A permanent poll ?





Native-Lang relay

- New developers need to be welcomed and helped sometimes starting in their own native language
- Event if great tools are provided, newcomers do not know they exist and need to be informed
 - Native-lang users/developers have to be relays
- Translate starting guides and documentations
- Translate addons
 - Some tools have to be provided to ease the translation of addons
 - That implies that addons complies some design guidelines
 - Translate the description
 - Ideally this translation tool should be used by end-users without any development knowledge





Summary

- Wizards in all "scripting" languages
 - Navigation mechanism
 - Translation
 - Parameters
- Starting guides for all "scripting" languages
- Policies and development guidelines, charter (free software, branding location ...)
- Reviewing team for accepting addons
- A wizard for end users
- A simple tool for translation
- A dedicated project with web resources
 - let start with dev@scripting.openoffice.org to organize





Thanks and ...



WE NEED YOU





Discussion

- Ideas
- Opinions
- Questions
- Answers
- Volunteers ...



