



Kleopatra 2

Certificate Manager
Universal Crypto GUI

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Outline

- Kleopatra History
- Three Dimensions of Universality
- Kleopatra 2.0 for the Developer
- Outlook



Kleopatra History

- Ägypten I (2003)
 - “KGpgCertmanager”
 - S/MIME only
 - fetch, view, list, import and create certificates
 - CryptPlug
 - Matthias Kalle Dalheimer
 - Steffen Hansen
 - Karl-Heinz Zimmer



Kleopatra History cont'd

- Ägypten II (2003/2004)
 - renamed to “Kleopatra” (v0.40)
 - GpgConf support
 - Certificate List Coloring
 - Hierarchical View
 - libkleo, gpgme++
- David Faure
- Marc Mutz



Kleopatra History cont'd


- proko2/enterprise (ongoing)
 - Minor Improvements
 - AuditLog Support

– Till Adam

– Marc Mutz

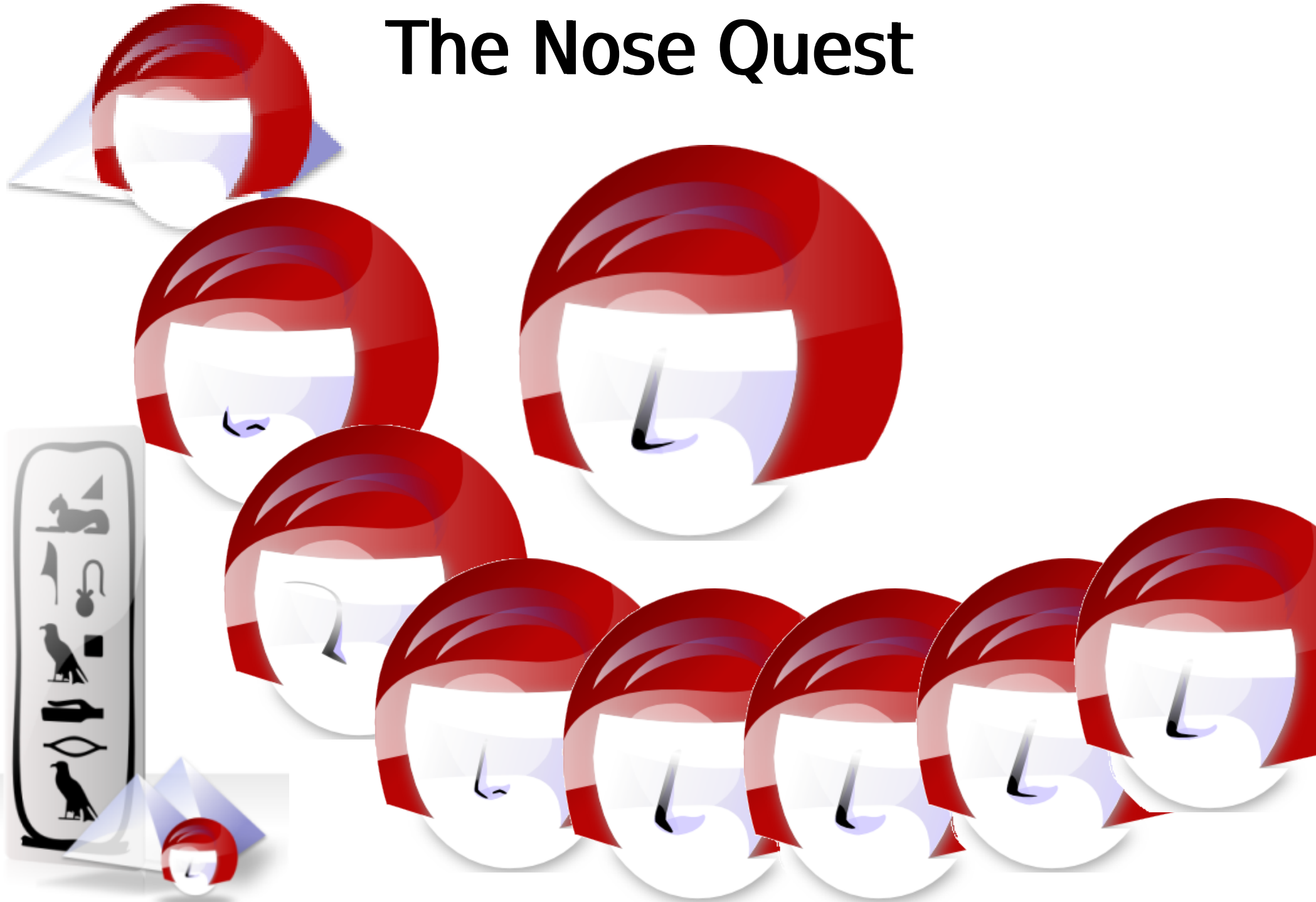


Kleopatra History cont'd

-  (anytime now...)
 - v2.0.0, complete rewrite in Qt 4
 - Windows Port
 - OpenPGP Support
 - Tabbed Browsing
 - Crypto Ui Server (Assuan)
 - libkleopatraclient
- Frank Osterfeld
- Marc Mutz



The Nose Quest



Universality's Three Dimensions I: Platforms

- Kleopatra runs on all three major platforms (more or less :)

- Windows
- Linux / Unix
- OS X



Universality's Three Dimensions II: Protocols

- Kleopatra supports S/MIME and OpenPGP
 - Transparent protocol handling
 - Common vocabulary
 - Reuse of design elements between protocols



Universality's Three Dimensions III: User Interface

- Kleopatra provides a UI Server for other applications to use
 - Necessitated by GpgOL (licensing)
 - Standardized GUI for Crypto Operations...
 - ...across applications
 - ...across protocols
 - ...across platforms



Kleopatra Clients

- Kleopatra
- Gpg4win 2:
 - GpgOL (Outlook Plugin)
 - GpgEX (Explorer Plugin)
- KDE:
 - Konqueror/Dolphin Service Menu
 - KMail/Kontact (planned)
 - <Your application here>



Kleopatra from the Developer's Perspective

- UI Server is accessed over ASSUAN
 - Designers: Werner Koch, Marcus Brinkmann
 - Security as principle design goal
- Standard protocol:
 - EMail (stream-based)
 - Files and Folders (file-based)
- Extensions:
 - Certificate Selection



Kleopatra from the Developer's Perspective

- libkleopatracore
 - QtCore only
 - Abstracts away ASSUAN details
 - One Command class per ASSUAN command
- libkleopatragui
 - QtGui
 - class CertificateRequester



Outlook

- Kleopatra Polishing
 - Usecases
 - User Interface
 - Complete OpenPGP Functionality
- Port KMail to libkleopatraclient
 - Removes unholy link dependency on gpgme
 - Eases packaging on non-Linux
- Develop Kleo outside KDE's schedule

