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# Web Editors - CKEditor and Others

Ben Langhinrichs

# Introduction: Ben Langhinrichs

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- President - Genii Software Ltd.
  - Founded in 1992 (OS/2 utilities)
  - First Notes product in 1995
  - IBM/Lotus Business Partner since 1995
  - Based in Cleveland, Ohio, U.S.A.
  - Customers in 49 countries
- Author, poet, book reviewer

# Genii Software – Current Products

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## Coexistence Solutions

- CoexEdit: Notes/Web editing coexistence
- CoexLinks: Notes/Outlook e-mail coexistence

## Rich Text Tools

- Midas Rich Text LSX
- Midas Rich Text C++ API
- @Midas Lookups (free)

# Web editors - Agenda

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- What is meant by a ‘web editor’?
- Editing rich text with Lotus Notes & Domino
- CKEditor in XPages
- CKEditor used with Domino (no XPages)
- Other web editors used with Domino (no XPages)
- Coexistence concerns

# What is meant by a ‘web editor’?

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- Equivalent to rich text editing in Notes
- Through The Web editors (in-place editing)
- WYSIWYG editing
- Toolbars and/or control keys

# Editing rich text in Notes client

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- Add “richness” with menu items, properties and keyboard shortcuts
- Easily insert tables, images and file attachments
  - In-line file attachments are powerful feature
- Create doclinks, link hotspots and URL hotspots
- Change colors, fonts and attributes
- Styles through style picker
- Limited CSS control added in ND6

# Editing rich text in Web (with Domino)

- Option 1 – “Using HTML”
  - Simple textarea
  - All formatting, images, tables, links, etc. lost
  - No ability to add formatting
  - End result is rich text, but very plain rich text

## Editing rich text in Web (with Domino)

- Option 2 – “Using Java applet”
  - Java applet fairly heavy and slow
  - Some fidelity remains, but images and doclinks lost
  - Tables are displayed as tags, very hard to manage
  - Basic formatting works
  - No import of images, file attachments or doclinks



## Editing rich text in Web (with Domino)

- Option 3 – “Using Best Fit for OS”
  - Requires Internet Explorer on Windows
  - In other browsers, uses Java applet
  - Pretty good fidelity, but images and doclinks still lost
  - Tables are displayed well, but messed up on save
  - Basic formatting works, plus some advanced
  - No import of images, file attachments or doclinks

## Editing rich text in Web (with Domino)

- Option 4 – “Using JavaScript control”
  - Cross platform
  - Fairly good fidelity, but images and doclinks still lost
  - Tables are displayed well, and save fairly well
  - Good basic formatting options
  - No import of file attachments or doclinks

# WYSIWYG Editors

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- What You See Is What You Get
- HTML/XHTML underneath, rich text on surface
- Enhanced editing capabilities in browsers

# The Editable Area - Choices

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- `<textarea>` replacement
- Java applet
- JavaScript `<div>` approach

# Open Source Editors

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- CKeditor – Probably the top contender now
- TinyMCE – Lightweight alternative
- Xinha – successor to htmlarea
- Many, many others with niche markets or specialties

# Commercial Editors

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- Altova Authentic® 2011
- CuteEditor
- edit-on NG
- EditLive
- Enterprise TinyMCE
- Sferyx JSyndrome HTMLEditor
- More every day

# CKEditor

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- Made in Germany
- Replaces FCKeditor
- Allows either div or textarea replacement
- Full functionality
- Customizable toolbar
- Open source JavaScript - can be modified

# CKEditor in XPages

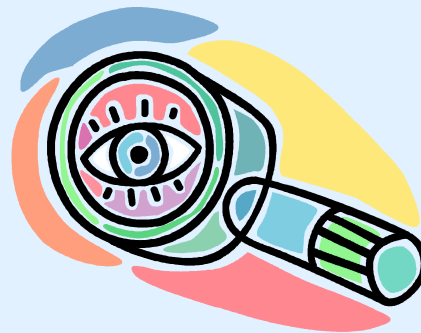
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- No special coding required
- Implemented with Dojo wrapper
- Converts rich text to MIME
- Customizable toolbar
- Other attributes customizable
- Trial and Error required



# Code Peek

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# CKeditor – Create approach

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- Create a div around rich text field
- Use innerHTML property to feed to CKeditor
- 64KB limit on content
- Uses “Create” method in CKeditor
- Looks the same as textarea replacement, but less flexible

# CKeditor – Textarea Replacement

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- Make sure the id is set to fieldname
- Uses the HTML from field itself
- HTML must be set to passthru to display properly
- Uses “Replace” method
- Very flexible with few limits
- Images, links, etc. will work

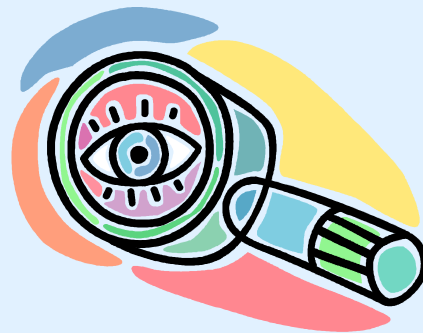
# CKeditor – Comes with 8.5.2+

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- Load CKeditor JavaScript in HTML header
- Set id for rich text field
- Modify onLoad logic to trigger
- Specify the toolbar
- Add WQS agent to reset passthru HTML at end
- Add WQO agent to retrieve HTML from MIME

# Code Peek

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# Special Features - Images

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- Add web based images
- Add smileys and other emoticons
- Add local images
- Resize images or set attributes

# Special considerations - Images

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- Local images are actually stored in separate MIME parts
- Images lost in Notes client

# Special Features - Doclinks

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- Custom code to create doclinks
- Custom view to select doclink
- Easy to extend to other dbs
- Alt text may be set on doclink to identify further



# Special considerations - Doclinks

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- No special properties box for doclinks (just an image with link)
- Replica copies require identical filepath

# Special Feature – File Attachments

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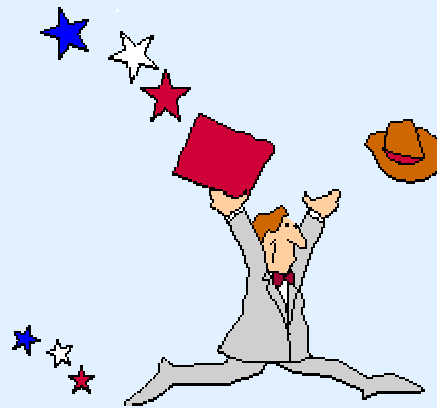
- Files can be uploaded without upload controls
- Files can be uploaded without submit
- Several files can be uploaded where you like

## Special considerations – File Attachments

- No special properties box for attachments
- Paperclip image and link text can be separated
- Local “attachments” are actually stored in separate documents
- Local attachments may be less secure
- Deleting attachment does not delete separate document
- Replica copies require identical filepath

# Demo: CKeditor with Domino

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# Multiple rich text fields

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- Work primarily the same as single
- May require smaller toolbars
- Require modification of WQS agent

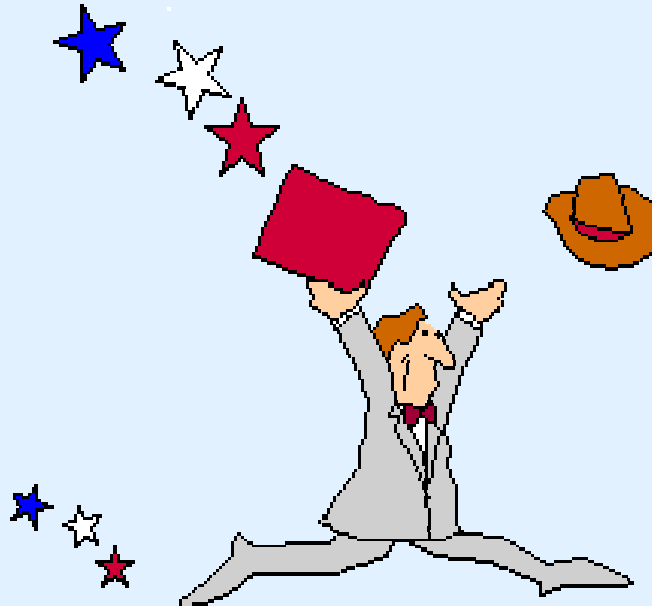
# So, what is missing?

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- Images and attachments in source document
- Doclinks working on both sides

# I Have a Tool for That - CoexEdit

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# More information

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- <http://twitter.com/blanghinrichs>
- <http://GeniiSoft.com> – Company website
- <http://GeniiSoft.com/showcase.nsf/EC2011>
- <http://GeniiSoft.com/showcase.nsf/GeniiBlog>
- <http://MyComfyChair.blogspot.com> – reviews of books for kids



# Q&A: Are we done yet?

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