ByStar Autonomous Content Production And Administration Examples

A How To Guide For Creating And Publishing Multi-Media Content

Article Format Of Presentation

Document #PLPC-180060
Version 0.1
April 22, 2019

This Document is Available on-line at:
http://www.by-star.net/PLPC/180060

Neda Communications, Inc.
Email: http://www.by-star.net

Contents

I Overview 2

1 Assumptions – Pre-Requisites – This Is A How-To Document 2
1.1 Pre-Requisites And Related Topics . . . 2
1.2 Pointers To Related Topics And Documents . . . 2

2 Scope And Contours Of This Examples And How-To Document 2
2.1 How-To – Topics Overview . . . 2

3 Obtaining The Sources Of This Document – Obtaing BISOS And Related Components 3
3.1 Obtaining Source Of This Document – Pointers To Git Repos . . . 3
3.2 Obtaining BISOS And Related Components . . . 3

II Initial Selections: BxIO/Repo, Content Base, Content Language And Content Form 4

4 BxIO/Repo Selection 4

5 Content Base Creation 4

6 Content Languages Selection 4

7 Content Forms Selection 5

8 Build A Starting Point For Content Development And Processing 5

III Metadata Configuration – Build Verification And General Orientation 7

9 Metadata Configuration 7

10 Build Verification 7
10.1 Content Processing – With lcntProc.sh . . . 7
10.2 Content Processing – With Panel.org . . . 8
10.3 Content Processing – From LaTeX Sources . . . 8

IV Adding Structure And Multilingual Text 9

11 Common To All Forms Features 9

11.1 MasterLangs.ttytex and BodyForm.Langstex Canonicalization . . . 9

11.2 Conditional Processing Features . . . 9

11.3 Multilingualization Features In Left-To-Right Masters . . . 10

11.4 Multilingualization Features In Right-To-Left Masters . . . 10

12 Presentation Form Features 10

12.1 Structure Of Presentation Form Content . . . 10

12.2 DB-Frames Snippets . . . 11

12.3 Frame Content Snippets . . . 11

13 Article Form Features 11

13.1 RefTeX Mode – ref, cite, index . . . 12

13.2 Glossaries . . . 12

V Adding Images – Figures And Pictures 13

14 Adding Images – Figures And Pictures 13

15 Producing Images 13

15.1 Drawing With libreoffice-draw . . . 13

16 Processing Images 13

16.1 Configuring And Running figProc.sh . . . 13

17 Including Images 14

17.1 Insert Image Dblock And Update . . . 14

18 Adding Images And Figures 14

VI Preparing For Voice-Over Narration 15

19 Prepare For Audio And Video Additions 15

20 Adding Voice-Over Sounds To Slides 15

VII Creating And Adding Videos And Screen Captures 16

21 Creating And Adding Screencasts 16

22 ScreenCast Initial Content Generation Setup 16

23 ScreenCast VideoJS Setup 16

VIII Using ByStar Content Publication Facilities 17

24 Publishing The Document 17

IX Setting Up And Running Mailings And Distributions 18

List of Figures

Part I

Overview

1 Assumptions – Pre-Requisites – This Is A How-To Document

1.1 Pre-Requisites And Related Topics

This is a "How-To" document.

It assumes that you are already familiar with ByStar Content Production And Administration Concepts.

The following related documents are available.

Notes:

1.2 Pointers To Related Topics And Documents

ByStar Autonomous Content Collaborative-Authorship, Generation, Publication, and Distribution Software And Services http://www.by-star.net/PLPC/180038

The Libre-Halaal ByStar Digital Ecosystem A Unified and Non-Proprietary Model For Autonomous Internet Services A Moral Alterantive To The Proprietary American Digital Ecosystem http://www.by-star.net/PLPC/180016

Notes:

2 Scope And Contours Of This Examples And How-To Document

2.1 How-To – Topics Overview

Multi-Media Content Authorship – Integration Of Multi-Lingual Text + Images + Audio + Video

- Base And Template Selection
- MetaData Configuration And Editing
- Creating Frames And Adding Text
- Adding Images

- Preparing For Multimedia Additions
- Narration – Voice-Over Recordings
- Video Additions – Recordings and Screen Captures
- Publication
- Mailings And Distribution

Notes:

3 Obtaining The Sources Of This Document – Obtaing BISOS And Related Components

3.1 Obtaining Source Of This Document – Pointers To Git Repos

---

NOTYET

Notes:

3.2 Obtaining BISOS And Related Components

Obtaining BISOS

Obatining related Components

Notes:

Part II

Initial Selections: BxIO/Repo, Content Base, Content Language And Content Form

4 BxIO/Repo Selection

- Sources for production of content are kept in:
  - Git Repos
  - ByStar Information Object Containers
- Decide on which BxIO/Repo you want to allocate to the content.
- If needed create a Git Repo or a BxIO for the content.

Notes:

5 Content Base Creation

Within the selected BxIO/Repo you now need to create a base for the content

- cd to BxIO/Repo
- mkdir contentBase
- cd contentBase

For example, /lcnt/lgpc/examples/permanent/bxde/en+fa/pres+art/ex1

Notes:

6 Content Languages Selection

Content Languages Selection

Multilingualization

- Decide On Primary Language Direction – en+fa=l2r fa+en=r2l fa=r2l en=l2r
- Decide On Secondary Languages If Any – english, farsi
- Combine The Primary And Secondary Languages – en+fa, fa+en
- When Only The Primary Langauge Is Needed, Just Select That – en, fa

Even when your text is expected to be in a single language, it is still a good idea to select more than one language so that multi-lingualization support is in place.

Notes:

7 Content Forms Selection

- Decide on Desired forms – Presentation, Article+Presentation, Article – Memo, WebPage, Mailings
- Article form can also be: Memo, WebPage, Mailings
- Presentation form can also be: WebSlider
- When wishing to have both Presentation And Article forms, one needs to be considered primary. pres+art and art+pres are slightly different.

Notes:

8 Build A Starting Point For Content Development And Processing

---

Based on your languages selection and your forms selection you can now create a starting point

- lcnLcntGens.sh – is used to create starting points for content development
- In CntnBaseDir, run lcnLcntGens.sh –
- From the offered list, select languages and forms

Running that, auto assigns a "Content Number" for you.

Your BxIO/Repo and location determines Author, organization and Publications Destinations.

In CntnBaseDir you now have starting point tex files, lcntProc.sh, panel.org and LCNT-INFO.

- NOTYET – Text from lcnLcntRoadmap.sh comes here

Notes:

Part III

Metadata Configuration – Build Verification And General Orientation

9 Metadata Configuration

- lcnLcntGens.sh has created for you LCNT-INFO with initial values. You may need to configure these values.
- Run: lcntProc.sh -v -n showRun -i editLcntInfo mainTitle shortTitle subTitle subSubTitle description to specify the name/title of your content.
- Run: lcntProc.sh -i dblockUpdateFile articleEnFa.ttytex presentationEnFa.ttytex presArtEnFa.ttytex to update all relevant dblocks to reflect the changes that you made to the LCNT-INFO metadata.

You now have a starting point. You can next build this initial content.

Notes:

10 Build Verification

Three different ways of processing your content.

- Command-Line Bash ICM – lcntProc.sh
- ICM Panel – Panel.org
- Org bash command from within LaTeX sources in org-mode

Notes:

10.1 Content Processing – With lcntProc.sh

- lcntProc.sh
- lcntProc.sh -i fullUpdate
- lcntProc.sh -i fullClean
- lcnLcntInputProc.sh -p inFormat=xelatex -p outputs=pdf -i buildDocs presentationEnFa.ttytex

- lcnLcntInputProc.sh -p inFormat=xelatex -p outputs=heveaHtml -i buildDocs presentationEnFa.ttytex

---

Notes:

10.2 Content Processing – With Panel.org

- Visit Panel.org
- Select “run mode”
- Just click on what you want

Notes:

10.3 Content Processing – From LaTeX Sources

- Visit any of presentationEnFa.ttytex articleEnFa.ttytex bodyPresArtEnFa.tex
- Switch to org-mode Overview – [F12-F12]
- Click on Build & Preview Choices

Notes:

Part IV

Adding Structure And Multilingual Text

11 Common To All Forms Features

11.1 MasterLangs.ttytex and BodyForm.Langstex Canonicalization

---

Multilingualization Features

Left-To-Right Masters

- presentationEnFa.ttytex and presArtEnFa.ttytex input bodyPresArtEnFa.tex
- articleEnFa.ttytex input bodyArticleEnFa.tex

.ttytex files are NOT intended to be considered "generally editable". They are driven by LCNT-INFO metadata through dblock updates. They are customized by dblock argument selections They are extended by inputs additions.

- bodyPresArtEnFa.tex has presentation form content
- bodyArticleEnFa.tex has article form content

It is possible to use conditional common text to use within both forms.

Notes:

11.2 Conditional Processing Features

- beginpresentationMode – ByStar-Extention (LaTeX and HeVeA)
- beginarticleMode – ByStar-Extention (LaTeX and HeVeA)
- latexonly – HeVeA provided
- htmlonly – HeVeA provided
- rawhtml – HeVeA provided

Notes:

11.3 Multilingualization Features In Left-To-Right Masters

Multilingualization Features

Left-To-Right Masters

- right-to-left

Notes:

11.4 Multilingualization Features In Right-To-Left Masters

Multilingualization Features

Right-To-Left Masters

- right-to-left

Notes:

12 Presentation Form Features

- DB-Frames Snippets
- Frame Contents Snippets

Notes:

12.1 Structure Of Presentation Form Content

---

beginsection – Snippets -> bx-latex-mode -> Parts DBlock

- Frame Head – Snippets -> bx-latex-mode -> DB-Frames
  - Frame Body – Snippets -> bx-latex-mode -> Frames-Content

- Frame Head+Body – Snippets -> bx-latex-mode -> DB-Frames Plus
- Frame Inputed Body
- Videoed-Frame as Frame Inputed Body –
- Frame End – endframe

Notes:

12.2 DB-Frames Snippets

YASnippets:

- Basic vs Narrated – Narrated include audio
- Plain Vs Contained – Contained includes toc headers

Notes:

12.3 Frame Content Snippets

YASnippets:

- Frame Notes – Shows up in artPres form and with pdfpc
- Alert, Basic, Example

Notes:

13 Article Form Features

- RefTeX Mode – ref, cite, index
- Glossaries

Notes:

13.1 RefTeX Mode – ref, cite, index

RefTeX Mode

ref, cite, index

RefTeX Mode:

- ref
- cite
- index

Notes:

13.2 Glossaries

YASnippets:

- Frame Notes – Shows up in artPres form and with pdfpc
- Alert, Basic, Example

Notes:

Part V

Adding Images – Figures And Pictures

14 Adding Images – Figures And Pictures

- Producing Images
- Processing Images
- Including Images

Notes:

15 Producing Images

15.1 Drawing With libreoffice-draw

- Within Blee, In YASnippet, Select bx-latex-mode – Multi-Media Dblock – Image ODG
- Specify a path to the .odg file
- Update the dblock
- From Panel.org – Re-Build all forms and formats to verify

Notes:

16 Processing Images

16.1 Configuring And Running figProc.sh

- .odg -> figProc.sh -> .pdf, .eps
- .odg -> figProc.sh -> -caption.tex

Notes:

17 Including Images

17.1 Insert Image Dblock And Update

- .odg -> figProc.sh -> .pdf, .eps
- .odg -> figProc.sh -> -caption.tex

Notes:

18 Adding Images And Figures

- Within Blee, In YASnippet, Select bx-latex-mode – Multi-Media Dblock – Image ODG
- Specify a path to the .odg file
- Update the dblock
- From Panel.org – Re-Build all forms and formats to verify

Notes: Frame Notes

Part VI

Preparing For Voice-Over Narration

19 Prepare For Audio And Video Additions

- In Panel.org – Run lcntProc.sh -i mmUniteStart
- Go to mmUnite Panel
- From ./MmUnitePanel.org – Run mmUnite.sh -h -v -n showRun -i screenCastingFullUpdate This Creates ./disposition.gened/ Where each frame is numbered and labled.

Notes: Frame Notes

20 Adding Voice-Over Sounds To Slides

- In ./CntntBase/audio from the Panel, run mmUniteAudio.sh -h -v -n showRun -i frameNamesPrepare This creates 1 sec silence files in .wav format for each of the files corresponding to labels in the presentation file.
- In ./CntntBase/audio from the Panel Go to rec command and frameRecordCommand
- Click on each of the audacity frameFileName.wav
- Within audacity, export audio, overwrite extension as .wav
- When completed, run mmUniteAudio.sh -i fullUpdate – This will convert all the .wav files to .mp3 and figure their length.

Notes:

Part VII

Creating And Adding Videos And Screen Captures

21 Creating And Adding Screencasts

- In Panel.org – Run lcntProc.sh -i mmUniteStart
- Go to mmUnite Panel
- From ./MmUnitePanel.org –

Notes: Frame Notes

22 ScreenCast Initial Content Generation Setup

Notes: Frame Notes

23 ScreenCast VideoJS Setup

Notes: Frame Notes

Notes: Frame Notes

Part VIII

Using ByStar Content Publication Facilities

24 Publishing The Document

- In Panel.org – Run lcntProc.sh -i mmUniteStart
- Go to mmUnite Panel
- From ./MmUnitePanel.org –

Notes: Frame Notes

Part IX

Setting Up And Running Mailings And Distributions

- In Panel.org – Run lcntProc.sh -i mmUniteStart
- Go to mmUnite Panel
- From ./MmUnitePanel.org –

Notes: Frame Notes

References