



The challenge of Using LibreOffice & Building Local Community in Korea

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LibreOffice Korean Team

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Who am I?

DaeHyun Sung

(성대현, 成大鉉, ソン・デヒョン)

Former Ubuntu Korean User & Contributor

openSUSE Korean User

GNOME Foundation Member

Founder member of LibreOffice Korean Team(2017-)

Member of The Document Foundation (2019-)

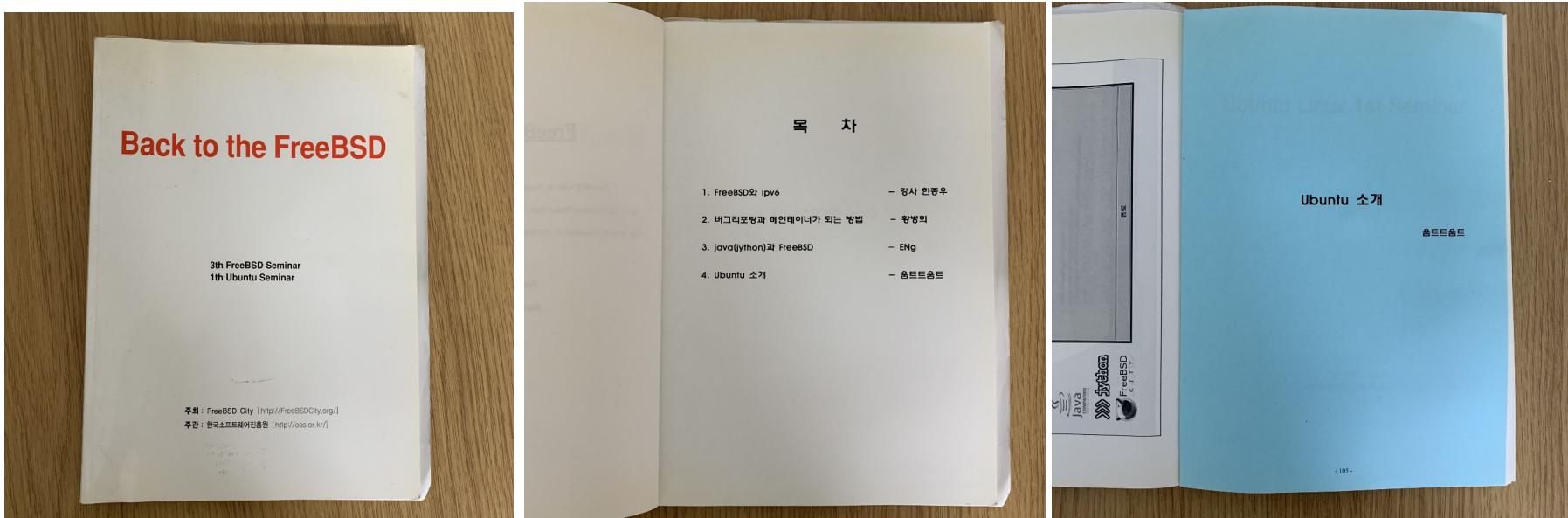
Activities: Korean Community management & QA,
improve some Korean features on LibreOffice



My Works about Ubuntu

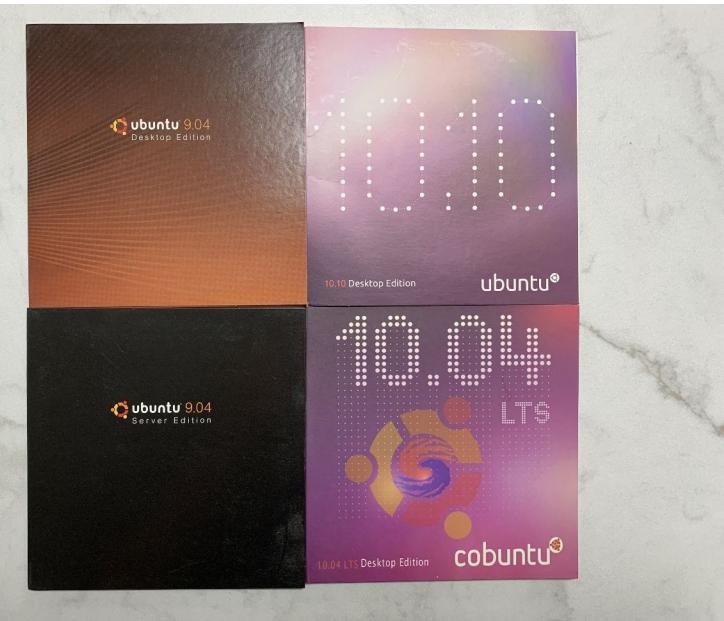
Former Ubuntu User about 10~15years ago

Ubuntu Korea Seminar – Maybe, 2006's Ubuntu Korean Community data?



Many of Ubuntu CDs

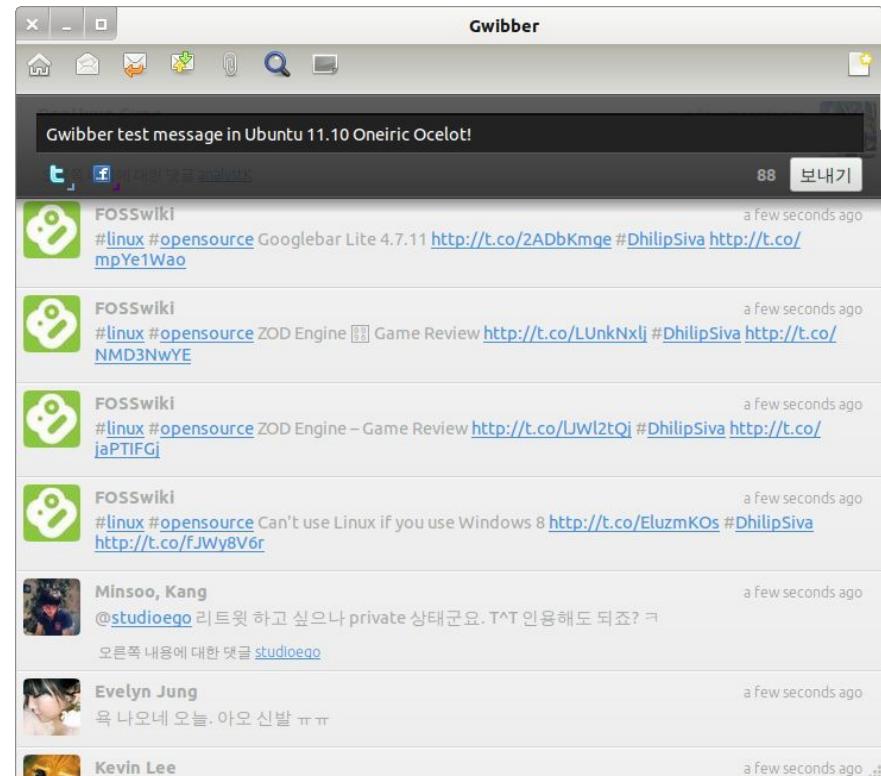
My Ubuntu Collections (05.04 Hoary Hedgehog ~ 10.10 Maverick Meerkat)



My Contribution on Ubuntu

Gwibber

- microblogging client for the GNOME
- Python using PyGTK



My Contribution on Ubuntu

<https://code.launchpad.net/~sungdh86/gwibber/urlshorter-durl>

[Merge] lp:~sungdh86/gwibber/urlshorter-durl into lp:gwibber

Inbox X

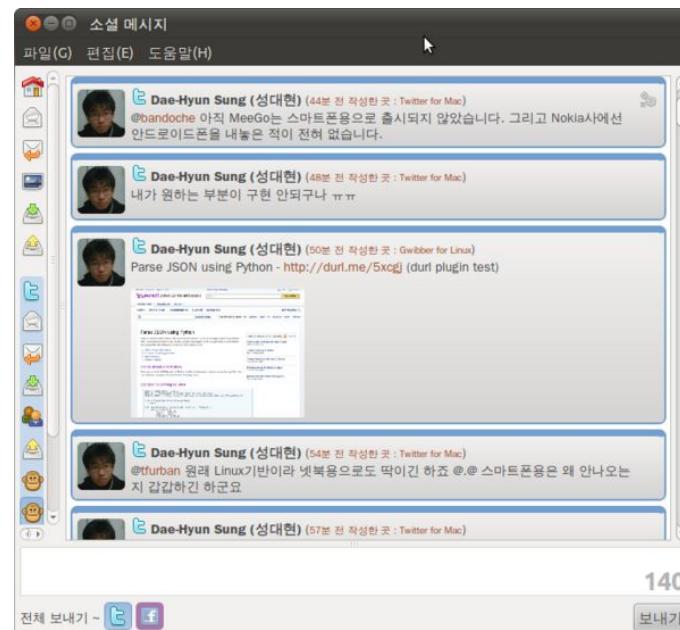
Dae-Hyun Ego Sung 2/16/11 ★
Dae-Hyun Ego Sung has proposed merging lp:~sungdh86/gwibber/urlshorter-durl ...

Robert Bruce Park 3/29/13 ★
Review: Needs Fixing Thanks for taking the time to submit this patch, unfortu...

Robert Bruce Park 3/29/13 ★
Hmmmmm, it looks like durl only provides XML or JSON output. Currently we hav...

Robert Bruce Park <robert.park@canonical.com> 3/29/13 ★
to me ↗
Review: Approve

Ok, I have implemented [durl.me](#) in the new friends-service. You can see my work here:
<http://bazaar.launchpad.net/~super-friends/friends/trunk-next/revision/200>



Other Contributions

GNOME Korean translations <https://l10n.gnome.org/users/dhsung/>

GNOME gucharmap

GNOME character

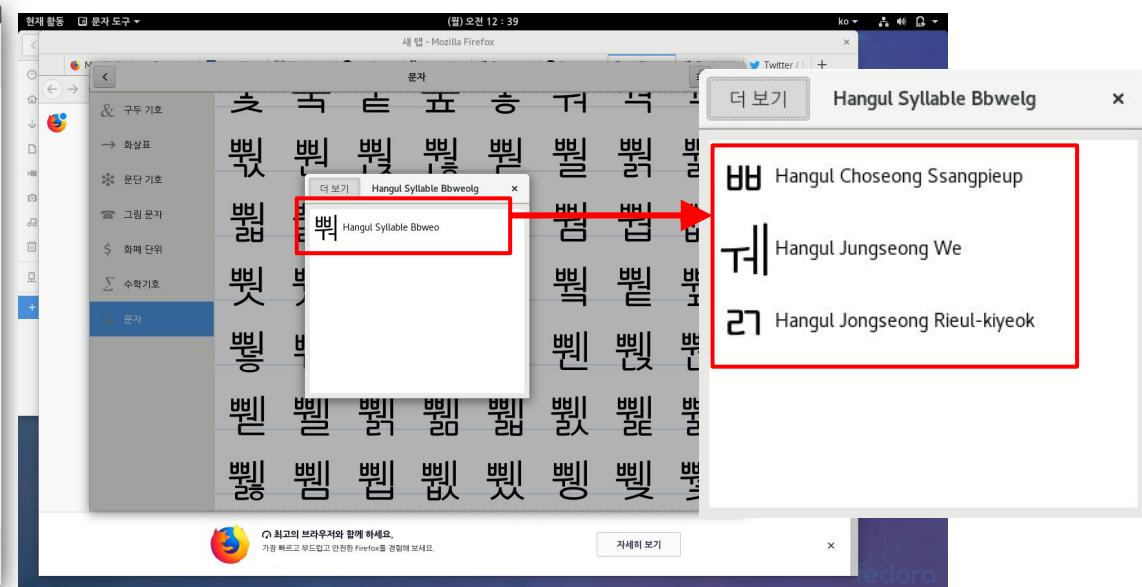
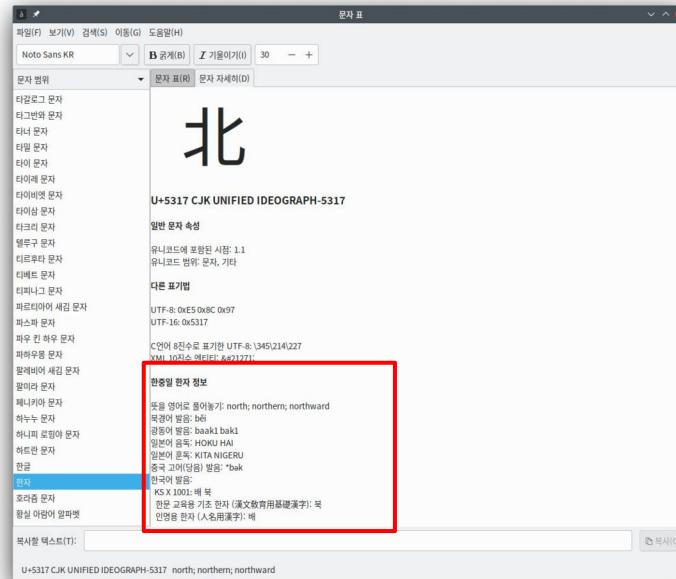
KDE kcharselect

LibreOffice

Etc.

GNOME Contributions

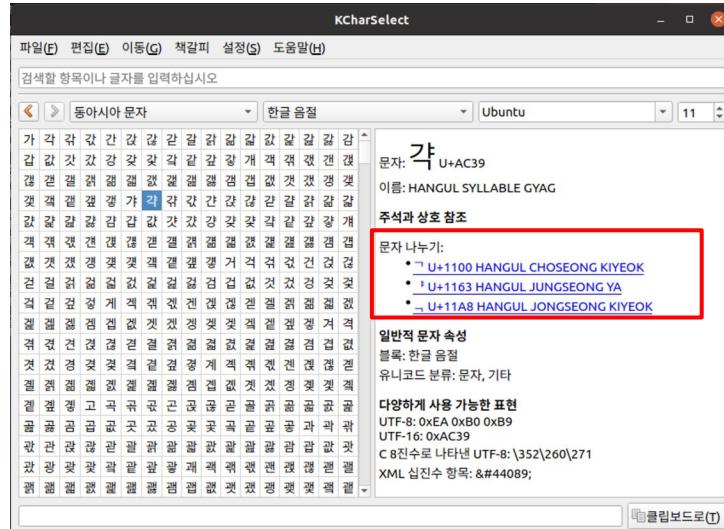
GNOME gucharmap, GNOME character



KDE Contributions

KDE kcharselect - Add decomposition of Hangul Syllables into Hangul Jamo

<https://invent.kde.org/frameworks/kwidgetsaddons/-/commit/d5af98cb6fbe743d6fdf75770aef13a5c6194b8>



The challenge of Using LibreOffice in Korea

Document Formats in Korea

HWP – Hangul Word Processor (published by Hancom 한글과컴퓨터 ,
brand name: 흐글)

In South Korea, Both OWPML and ODF are a Document format standard
as a public sector.

The Republic of Korea government adopted OpenDocument as a part of
Korean Industrial Standards KS X ISO/IEC 26300 in 2007.

※ KS X 6101(OWPML) – Hancom's Specification document

→ However, Hancom's Binary File format(HWP) broadly use in Korea

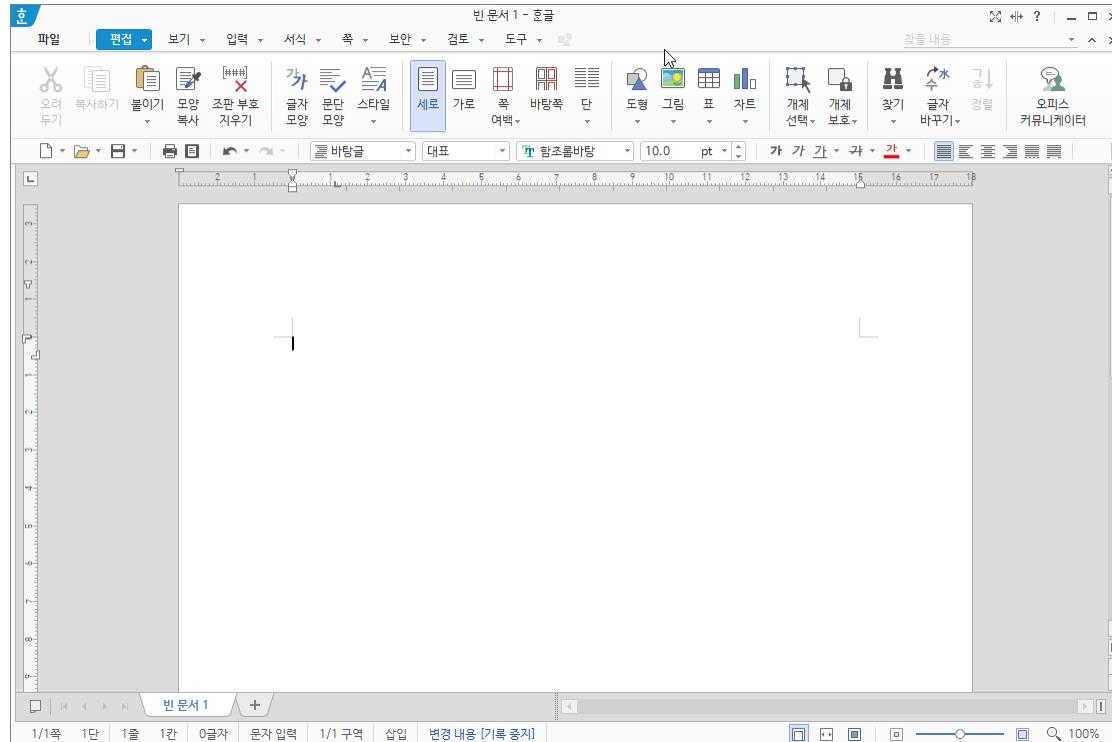
Document Formats in Korea

Almost of Many of Korea's public sector use HWP format

This screenshot shows a document titled "디지털성범죄 사례 발표 화상 세미나 개최" (Digital Crime Case Study Presentation Seminar). The document is in Korean and includes sections for "제작일" (Creation Date), "조회수" (View Count), "공공누리" (Public Notice), "전화번호" (Phone Number), and "담당부서" (Responsible Department). A large red box highlights the "첨부파일" (Attached File) section, which contains a link to a file named "(보도자료)디지털성범죄 사례 발표 화상 세미나 개최[예보 즉시 보도].hwp".

This screenshot shows a document titled "고등교육혁신특화지역 운영계획 고시" (Notice of Operation Plan for Higher Education Specialized Areas). The document is in Korean and includes sections for "제목" (Title), "등록일" (Registration Date), "등록자" (Registrar), "오명준" (Name), and "조회수" (View Count). A large red box highlights the "첨부파일" (Attached File) section, which contains a link to a file named "고등교육혁신특화지역 운영계획 고시.hwp".

HWP program screenshots



HWP issues for Expat in Korea

KDE aKademy 2018 Keynote: Mapping Crimes Against Humanity in North Korea with FOSS <https://conf.kde.org/en/akademy2018/public/events/78.html>

Youtube: <https://youtu.be/ITzFXeg4UGU?t=1590>

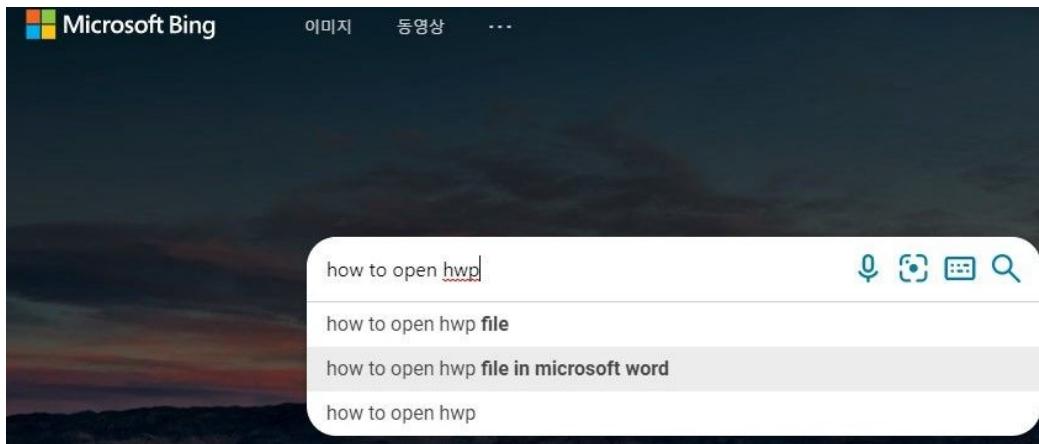
He describes his North Korea human rights NGO(전환기 정의 워킹 그룹 /Transitional Justice Working Group) working and using free and open source software and data(FOSSD)

He added that using FOSS in Korea is a challenge for foreigners

- Korean Input, fonts, banking & online transactions
- In addition, **Hangul Word processor / .HWP files**

Expat in Korea

Search HWP on Google & MS Bing



A screenshot of a Google search results page. The search bar at the top contains the query "how to open hwp". Below the search bar, a list of search results is shown:

- how to open hwp
- how to open hwp file
- how to open hwp file on mac
- how to open hwp file on windows
- how to open hwp file in word
- how to open hwp
- how to open hwp file on android
- how to open hwp file online
- how to open hwp on mac
- how to open hwp file on iphone

At the bottom of the search results, there are two buttons: "Google Search" and "I'm Feeling Lucky". A small link "Report inappropriate predictions" is located below the "I'm Feeling Lucky" button.

I became a University Student

In this year(2021), I became the one of Korea National Open University[한국방송통신대학교 / 韓國放送通信大學校] student.

I transferred to Department of Chinese Language and Literature.
(중어중문학과 , 中語中文學科)

→ try to Improve CJK issues on LibreOffice and other FLOSS Projects

Don't support ODF formats

Only support on HWP & DOCX, PDF file formats

- 온라인과제물 작성: 학교홈페이지 [맞춤형 정보시스템]에 탑재된 과제명을 확인하고 아래한글, MS-word 프로그램을 사용하여 PC로 작성 후 온라인 제출

- 작성분량: A4용지 4쪽내외(표지포함하여 +1쪽 가능), 파일용량은 5MB 이내로 제한

- 작성서식: [표지서식]을 다운로드 받아 그대로 사용할 것

- 표지서식 다운로드 경로

- 경로1: 홈페이지 로그인 ⇒ 나의정보 좌측 하단 ⇒ 학생서식 ⇒ 표지 및 기타서식 ⇒ 과제물표지(온라인 제출용)

- 경로2: 메인 홈페이지 우측 중간 ⇒ 학생서식 ⇒ 표지 및 기타서식 ⇒ 과제물표지(온라인 제출용)

※ 해당 교과목에서 작성 분량 및 작성서식을 별도 지시하면 예외

- 작성된 과제물의 파일명은 (시험유형)과목명,학번.hwp 또는 (시험유형)과목명,학번.doc, docx, (pdf)로 부여하고 개인PC 또는 저장매체에 저장

예시) 중간과제물,세계의역사,201410-123456.hwp

예시) 대체과제물,세계의역사,201410-123456.doc

- 상업사이트 및 다른 학생의 과제물을 표절하였을 경우 성적을 무효처리하여도 이의를 제기하지 않을 것임을 서약(**동의체크**)

Only submit hwp format

The professor insists that only HWP format must be used when writing homework documents.

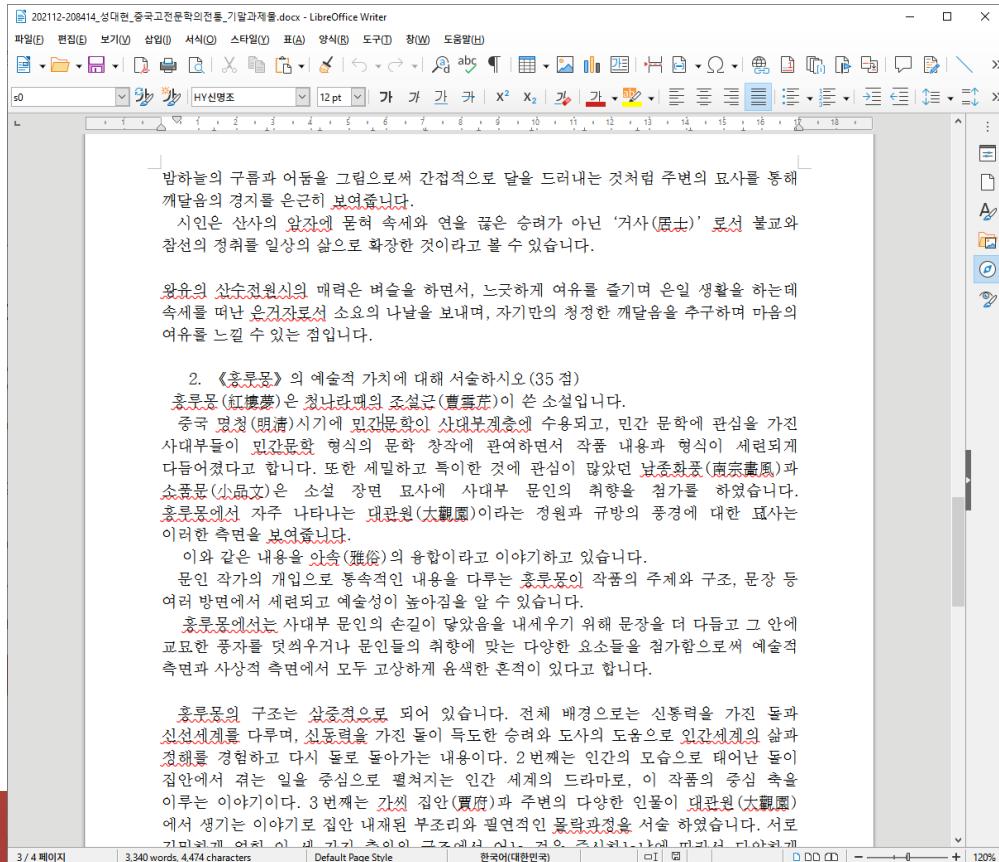
Because, He think that HWP is the only standard doc format in Korea.

→ However, Korea government has already officially adopted OWPML[KS X 6101] & ODF[KS X ISO/IEC 26300]

But, I submitted homeworks using LibreOffice

Template: HWP, DOCX

I wrote DOCX file using LibreOffice



HWP vs MS Word vs LibreOffice

The image displays three windows side-by-side, each showing a document titled "koreanLegal_test.docx". The document contains a list of 20 items, each consisting of a Korean name followed by its English translation and the word "koreanLegal". Most of the words are underlined in red, indicating they are misspelled or not recognized by the spell checker.

Left Window (WPS Office - HWP):

- 하나. 1: 하나 koreanLegal
- 둘. 2: 둘 koreanLegal
- 셋. 3: 셋 koreanLegal
- 넷. 4: 넷 koreanLegal
- 다섯. 5: 다섯 koreanLegal
- 여섯. 6: 여섯 koreanLegal
- 일곱. 7: 일곱 koreanLegal
- 여덟. 8: 여덟 koreanLegal
- 아홉. 9: 아홉 koreanLegal
- 열. 10: 열 koreanLegal
- 열하나. 11: 열하나 koreanLegal
- 열둘. 12: 열둘 koreanLegal
- 열셋. 13: 열셋 koreanLegal
- 열넷. 14: 열넷 koreanLegal
- 열다섯. 15: 열다섯 koreanLegal
- 열여섯. 16: 열여섯 koreanLegal
- 열일곱. 17: 열일곱 koreanLegal
- 열여덟. 18: 열여덟 koreanLegal
- 열아홉. 19: 열아홉 koreanLegal
- 스물. 20: 스물 koreanLegal

Middle Window (Microsoft Word):

- 하나. 1: 하나 koreanLegal
- 둘. 2: 둘 koreanLegal
- 셋. 3: 셋 koreanLegal
- 넷. 4: 넷 koreanLegal
- 다섯. 5: 다섯 koreanLegal
- 여섯. 6: 여섯 koreanLegal
- 일곱. 7: 일곱 koreanLegal
- 여덟. 8: 여덟 koreanLegal
- 아홉. 9: 아홉 koreanLegal
- 열. 10: 열 koreanLegal
- 열하나. 11: 열하나 koreanLegal
- 열둘. 12: 열둘 koreanLegal
- 열셋. 13: 열셋 koreanLegal
- 열넷. 14: 열넷 koreanLegal
- 열다섯. 15: 열다섯 koreanLegal
- 열여섯. 16: 열여섯 koreanLegal
- 열일곱. 17: 열일곱 koreanLegal
- 열여덟. 18: 열여덟 koreanLegal
- 열아홉. 19: 열아홉 koreanLegal
- 스물. 20: 스물 koreanLegal

Right Window (LibreOffice Writer):

- 하나. 1: 하나 koreanLegal
- 둘. 2: 둘 koreanLegal
- 셋. 3: 셋 koreanLegal
- 넷. 4: 넷 koreanLegal
- 다섯. 5: 다섯 koreanLegal
- 여섯. 6: 여섯 koreanLegal
- 일곱. 7: 일곱 koreanLegal
- 여덟. 8: 여덟 koreanLegal
- 아홉. 9: 아홉 koreanLegal
- 열. 10: 열 koreanLegal
- 열하나. 11: 열하나 koreanLegal
- 열둘. 12: 열둘 koreanLegal
- 열셋. 13: 열셋 koreanLegal
- 열넷. 14: 열넷 koreanLegal
- 열다섯. 15: 열다섯 koreanLegal
- 열여섯. 16: 열여섯 koreanLegal
- 열일곱. 17: 열일곱 koreanLegal
- 열여덟. 18: 열여덟 koreanLegal
- 열아홉. 19: 열아홉 koreanLegal
- 스물. 20: 스물 koreanLegal

HWP vs MS Word vs LibreOffice

HWP – Binary contents, Not easy read file format, non-interoperability, proprietary format

MS Word(docx), LibreOffice(odt) – text format, Easily Readable format

docx

```
<w:rPr><w:rFonts w:hint="eastAsia"/></w:rPr><w:t xml:space="preserve">안녕하세요| </w:t></w:r><w:r><w:t>- Hello</w:t></w:r></w:p>
```

odt

```
<text:p text:style-name="P1">안녕하세요 - Hello</text:p></office:text>
```

Building Local Community in Korea

Adopted ODF formats on Some Korea public sectors

과학기술정보통신부 (科學技術情報通信部 ,Ministry of Science and ICT in Korea)
adopted ODF format(Since 2020)

Media news] ZDNet Korea - 어떤 워드프로세서로든 열리는 'ODT'..." 국민 문서
활용도 ↑ " ('ODT' opened with any word processor, “Document Utilization ↑”)

<https://zdnet.co.kr/view/?no=20201116094217>

Adopted ODF formats on Some Korea public sectors

과학기술정보통신부 (科學技術情報通信部 ,Ministry of Science and ICT in Korea)
adopted ODF format(Since 2020) – Press Releases(보도자료)



다음글 ^ 과기정통부 소재, 항공우주 분야 공립 전문과학관 건립 추진

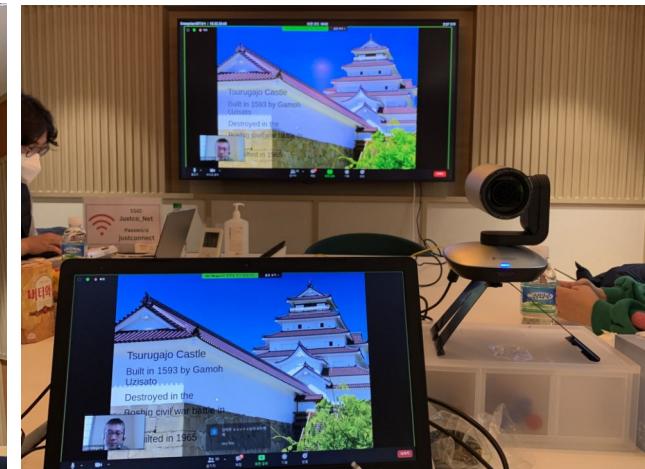
이전글 ▼ 과기정통부 과장급 전보

목록보기

2020 LibreOffice Korea·Japan Online Seminar

In 2020, LibreOffice Korea-Japan seminar was held with the support of NIPA

Thanks to NIPA & LibreOffice Japanese Team[LibreOffice 日本語チーム]!



What can I do For LibreOffice

Site: <https://whatcanidoforlibreoffice.org/>



What can I do For LibreOffice

Last year(2020), Collaboration with LibreOffice Japanese Community

I already contributed to it for a Korean version (2019)

I helped to contribute "What Can I do for LibreOffice"
to the LibreOffice Japanese community (2020)

Nogata Jun님이 링크를 공유했습니다.
6월 17일 ·

안녕하세요. 질문이 있어요.
어떻게 이 repository로 commit할 수 있어요?
<https://gerrit.libreoffice.org/.../WhatCanIDoForLibreOffice>

logerrit없어요. 모르겠어요~
이본어 번역을 commit하고 싶어요...

GERRITLIBREOFFICE.ORG
gerrit.libreoffice.org

Nogata Jun 작성자
감사합니다~ 😊 I will try replies
좋아요 · 답글 달기 · 15주

성대현 ⚡
I summarized the contents.
<https://medium.com/.../submit-commit-translation-on...>

User experience design MEDIUM.COM
Submit & commit Translation on WhatCanIDoForLibreOffic...
좋아요 · 답글 달기 · 미리 보기 삭제 · 15주

Nogata Jun 작성자
성공했습니다! 감사합니다~ 😊
<https://gerrit.libreoffice.org/.../WhatCanIDoForL.../+/99164>

GERRITLIBREOFFICE.ORG
gerrit.libreoffice.org
좋아요 · 답글 달기 · 10주
↳ 답글 1개 더 보기

Nogata Jun 작성자
감사합니다~ 😊😊😊😊
좋아요 · 답글 달기 · 10주

What can I do For LibreOffice

Jun Nogata, LibreOffice Japanese Team's member added and fix Strings(2021)

<https://gerrit.libreoffice.org/c/infra/WhatCanIDoForLibreOffice/+/113826>

<https://gerrit.libreoffice.org/c/infra/WhatCanIDoForLibreOffice/+/113827>

I translated new strings into Korean.(2021)

<https://gerrit.libreoffice.org/c/infra/WhatCanIDoForLibreOffice/+/116745>

Participate in the NIPA's event for contributor

Participate in the NIPA[National IT Industry Promotion Agency(정보통신산업진흥원 / 情報通信產業進興院)]'s Annual event for contributor

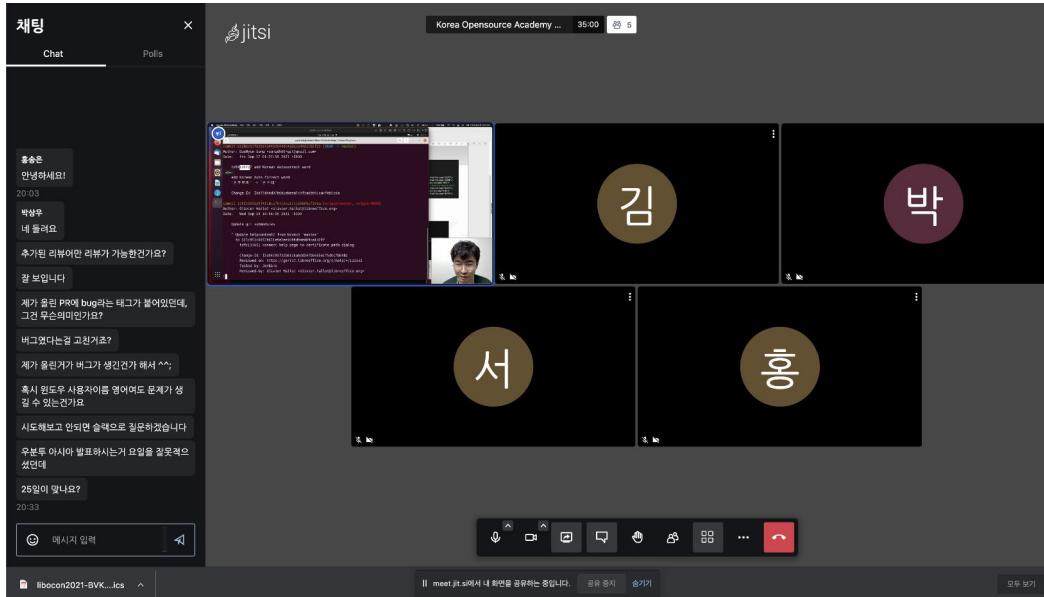
Homepage: https://www.oss.kr/contribution_academy

(2020) “Contributon” → (2021) “Open Source Contribution Academy”



Participate in the NIPA's event for contributor

Online meeting for LibreOffice Contribution such as Translation



4 options of Korean Numbering Texts

In MS OOXML document, shows Korean Numbering texts

[MS-DOCX]: Word Extensions to the Office Open XML (.docx) File Format
2.4 numFmt Extensions

https://docs.microsoft.com/en-us/openspecs/office_standards/ms-docx/a1bb5809-e361-4e49-8e16-7f1a67da4121

[MS-OE376]: Office Implementation Information for ECMA-376 Standards Support 2.1.350 Part 4 Section 2.13.5.30, numberingChange (Previous Paragraph Numbering Properties)

https://docs.microsoft.com/en-us/openspecs/office_standards/ms-oe376/a5deef83-bb01-410f-bde0-9c35abe4ca52

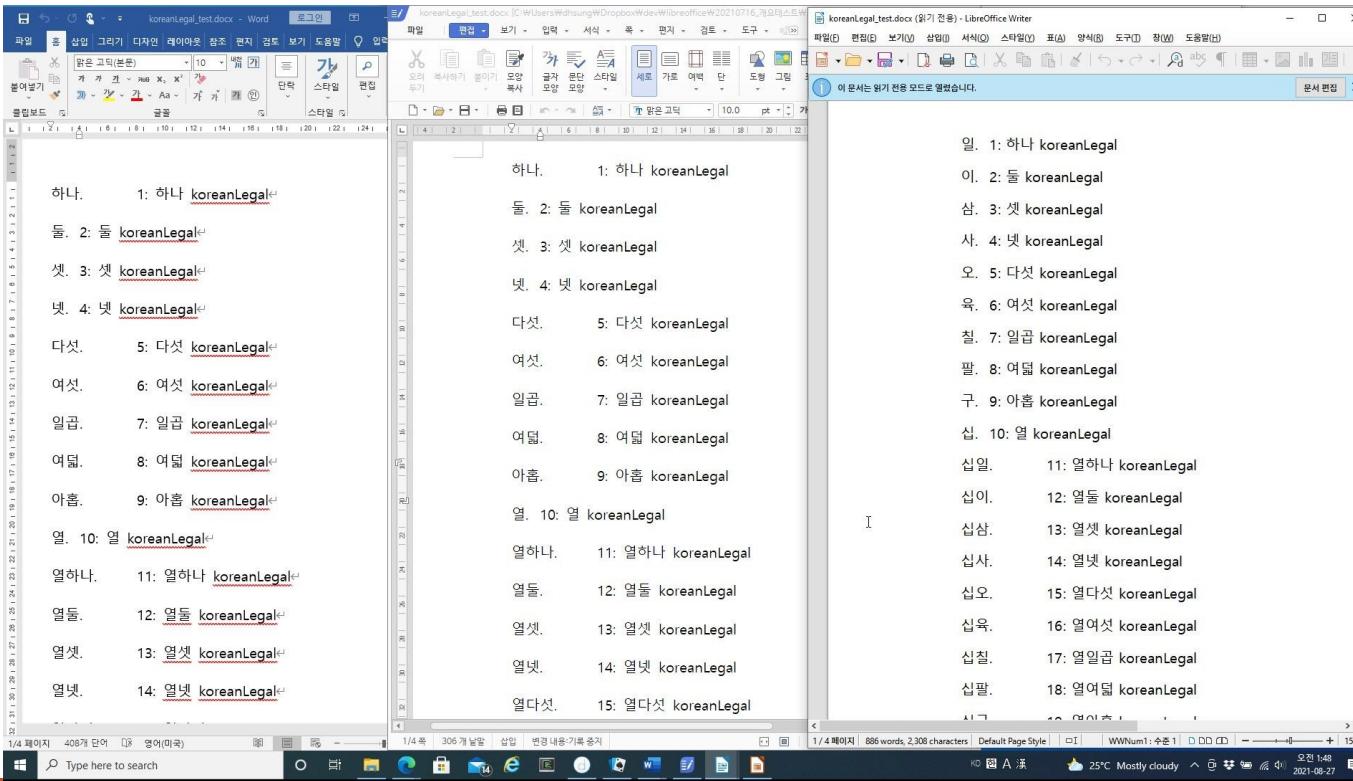
4 options of Korean Numbering Texts

Number	Korean Counting	Korean Legal	Korean Digital	Korea Digital2
1	일	하나	일	一
2	이	둘	이	二
3	삼	셋	삼	三
4	사	넷	사	四
5	오	다섯	오	五
6	육	여섯	육	六
7	칠	일곱	칠	七
8	팔	여덟	팔	八
9	구	아홉	구	九
10	십	열	일영	一零
11	십일	열하나	일일	一一
99	구십구	아흔아홉	구구	九九
100	백	백	일영영	一零零

Fix Korean Numbering

- Korean Legal

- 1: 하나
 - 2: 둘
 - 3: 셋
 - 4: 넷
 - 5: 다섯
 - 6: 여섯
 - 7: 일곱
 - 8: 여덟
 - 9: 아홉
 - 10: 열



Fix Korean Numbering

- Korean Legal

1: 하나

2: 둘

3: 셋

4: 넷

5: 다섯

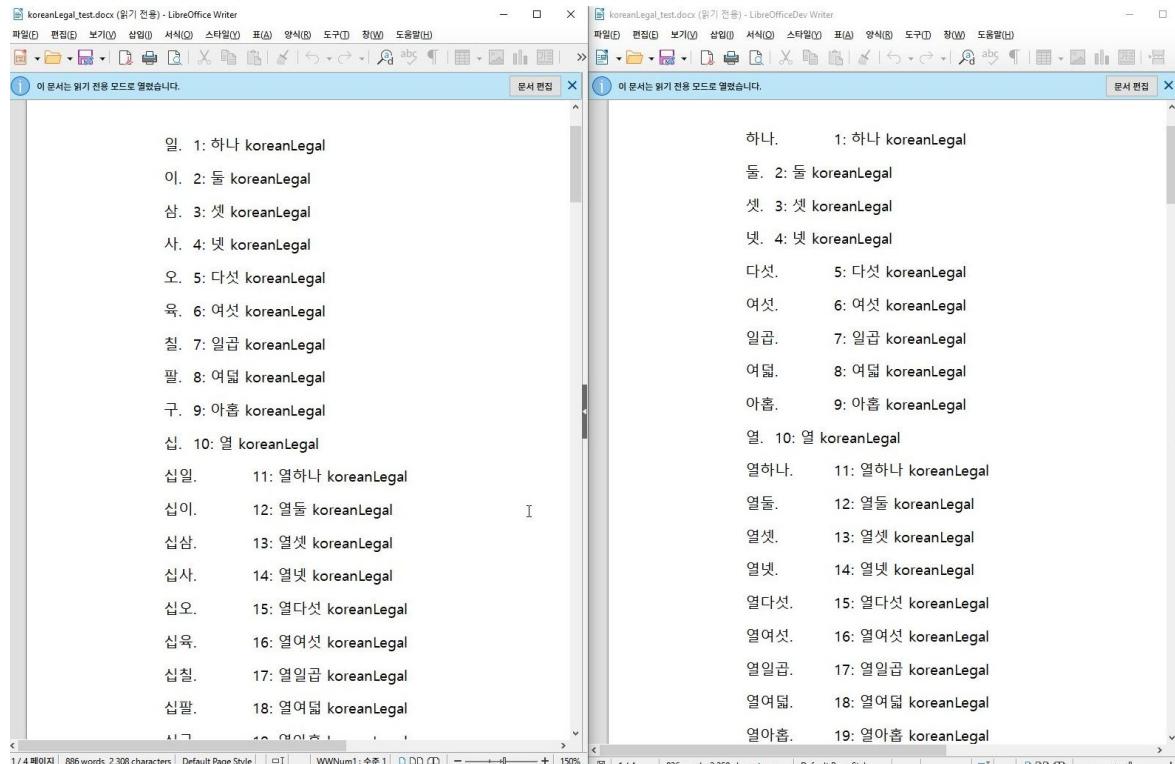
6: 여섯

7: 일곱

8: 여덟

9: 아홉

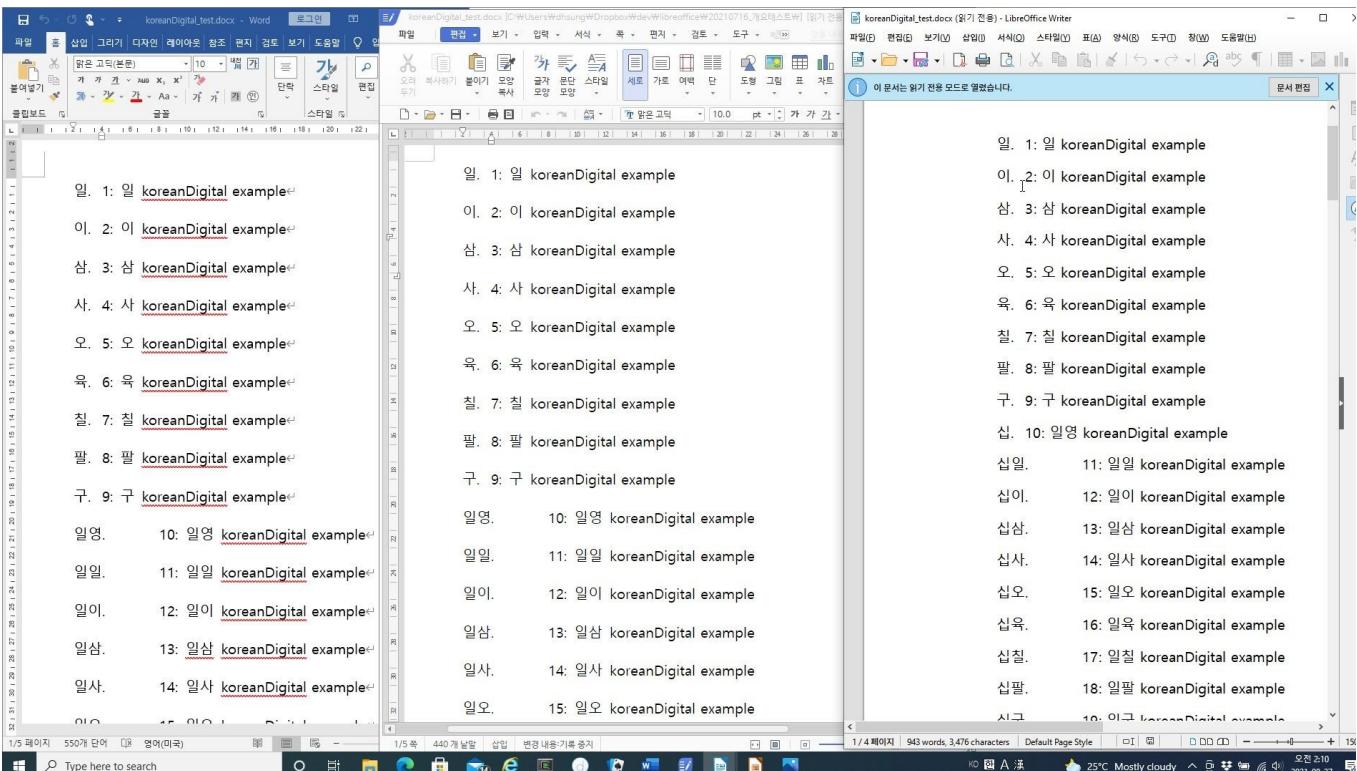
10: 열



Fix Korean Numbering

- Korean Digital

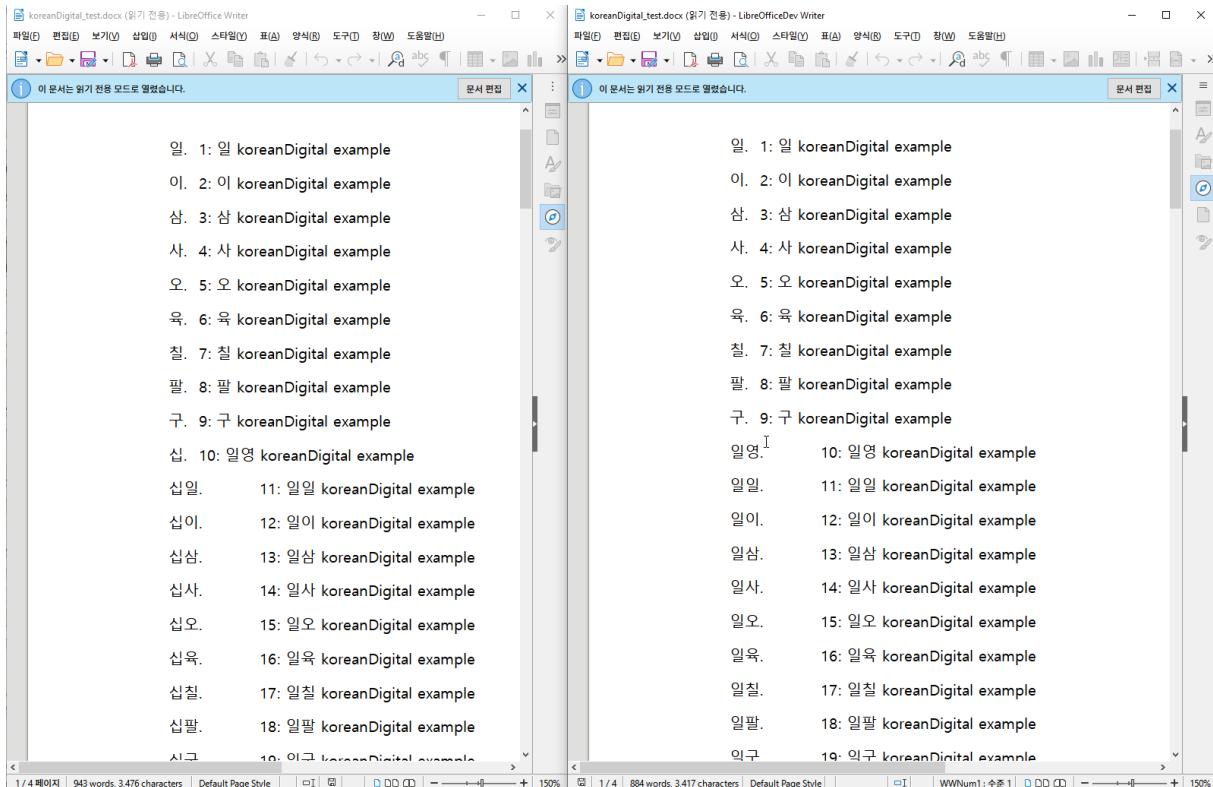
- 1: 일
 - 2: 이
 - 3: 삼
 - 4: 사
 - 5: 오
 - 6: 육
 - 7: 칠
 - 8: 팔
 - 9: 구
 - 10: 일공
 - 100: 일공공



Fix Korean Numbering

- Korean Digital

- 1: 일
- 2: 이
- 3: 삼
- 4: 사
- 5: 오
- 6: 육
- 7: 칠
- 8: 팔
- 9: 구
- 10: 일공
- 100: 일공공



Fix Korean Numbering

- Korean Digital2

- 1: 一
- 2: 二
- 3: 三
- 4: 四
- 5: 五
- 6: 六
- 7: 七
- 8: 八
- 9: 九
- 10: 一零
- 100: 一零零

The figure consists of three side-by-side screenshots of word processing software. The left screenshot shows Microsoft Word with Korean characters and numbers. The middle screenshot shows Microsoft Word with English numbers. The right screenshot shows LibreOffice Writer with Korean characters and numbers.

Microsoft Word Examples:

- 一. 1: 一 koreanDigital2 Example
- 二. 2: 二 koreanDigital2 Example
- 三. 3: 三 koreanDigital2 Example
- 四. 4: 四 koreanDigital2 Example
- 五. 5: 五 koreanDigital2 Example
- 六. 6: 六 koreanDigital2 Example
- 七. 7: 七 koreanDigital2 Example
- 八. 8: 八 koreanDigital2 Example
- 九. 9: 九 koreanDigital2 Example
- 一零. 10: 一零 koreanDigital2 Example
- 一一. 11: 一一 koreanDigital2 Example
- 一二. 12: 一二 koreanDigital2 Example
- 一三. 13: 一三 koreanDigital2 Example
- 一四. 14: 一四 koreanDigital2 Example
- 一五. 15: 一五 koreanDigital2 Example

Microsoft Word English Examples:

- 一. 1: 一 koreanDigital2 Example
- 二. 2: 二 koreanDigital2 Example
- 三. 3: 三 koreanDigital2 Example
- 四. 4: 四 koreanDigital2 Example
- 五. 5: 五 koreanDigital2 Example
- 六. 6: 六 koreanDigital2 Example
- 七. 7: 七 koreanDigital2 Example
- 八. 8: 八 koreanDigital2 Example
- 九. 9: 九 koreanDigital2 Example
- 一零. 10: 一零 koreanDigital2 Example
- 一一. 11: 一一 koreanDigital2 Example
- 一二. 12: 一二 koreanDigital2 Example
- 一三. 13: 一三 koreanDigital2 Example
- 一四. 14: 一四 koreanDigital2 Example
- 一五. 15: 一五 koreanDigital2 Example

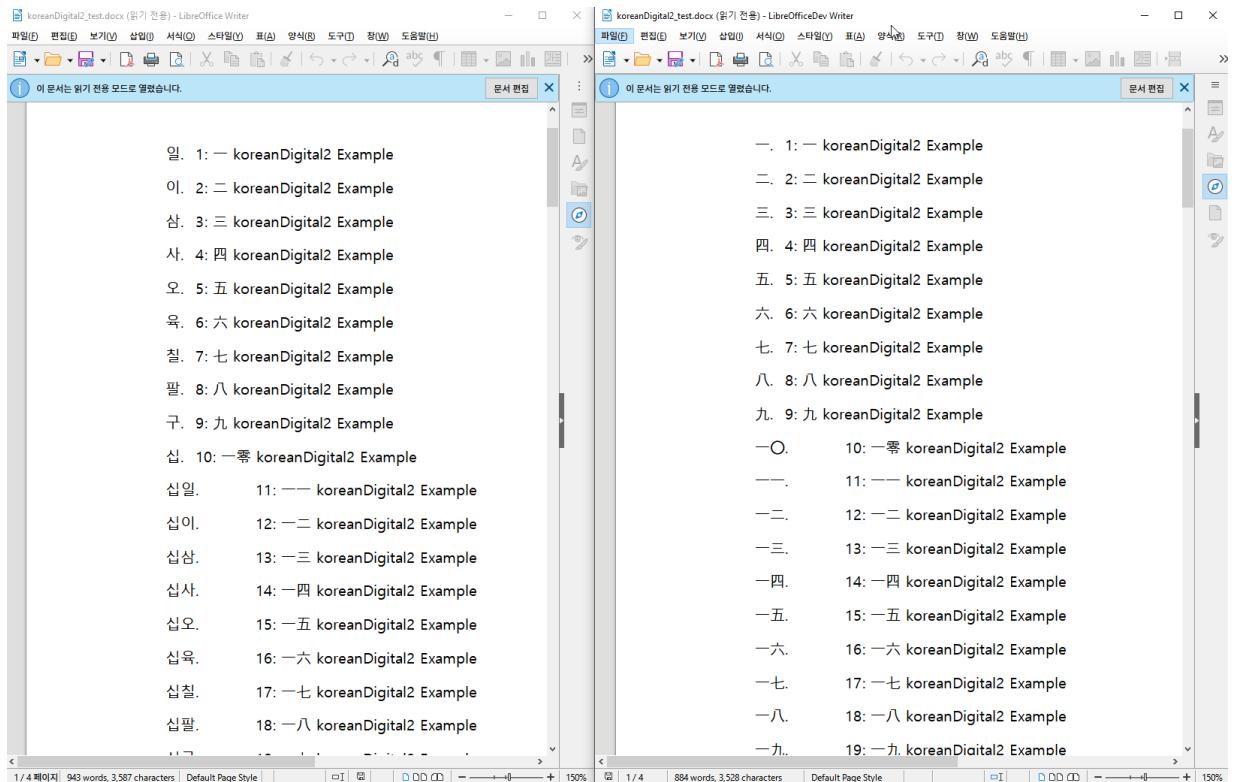
LibreOffice Writer Examples:

- 일. 1: 一 koreanDigital2 Example
- 이. 2: 二 koreanDigital2 Example
- 삼. 3: 三 koreanDigital2 Example
- 사. 4: 四 koreanDigital2 Example
- 오. 5: 五 koreanDigital2 Example
- 육. 6: 六 koreanDigital2 Example
- 칠. 7: 七 koreanDigital2 Example
- 팔. 8: 八 koreanDigital2 Example
- 구. 9: 九 koreanDigital2 Example
- 십. 10: 一零 koreanDigital2 Example
- 십일. 11: 一一 koreanDigital2 Example
- 십이. 12: 一二 koreanDigital2 Example
- 십삼. 13: 一三 koreanDigital2 Example
- 십사. 14: 一四 koreanDigital2 Example
- 십오. 15: 一五 koreanDigital2 Example
- 십육. 16: 一六 koreanDigital2 Example
- 십칠. 17: 一七 koreanDigital2 Example
- 십팔. 18: 一八 koreanDigital2 Example

Fix Korean Numbering

- Korean Digital2

- 1: 一
- 2: 二
- 3: 三
- 4: 四
- 5: 五
- 6: 六
- 7: 七
- 8: 八
- 9: 九
- 10: 一零
- 100: 一零零



Fix Korean Numbering

Bugzilla: Korean NumberFormats are missing and wrong on the Code

https://bugs.documentfoundation.org/show_bug.cgi?id=143526

Gerrit:

tdf#143526 fix and add Korean numbering

<https://gerrit.libreoffice.org/c/core/+/119518>

tdf#143526 add Korean Numbering test case & fix Hanja number
codepoint <https://gerrit.libreoffice.org/c/core/+/120676>

Example of one of Korean Numbering

(Maybe..... Korean Digital2?)

보물一二〇〇호

선운사 도솔암 마애불

一九九四年五월二일 지정

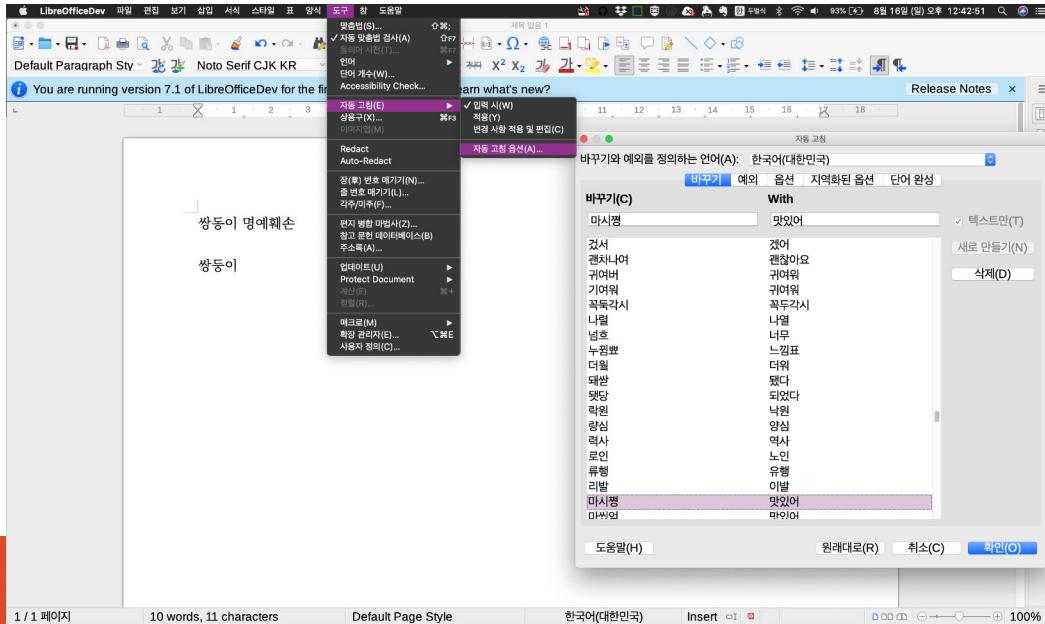


Hacktoberfest 2021

Goal: collect Korean Auto correct data

https://github.com/libreoffice-kr/autocorr_kr

Hacktober
20 fest 21



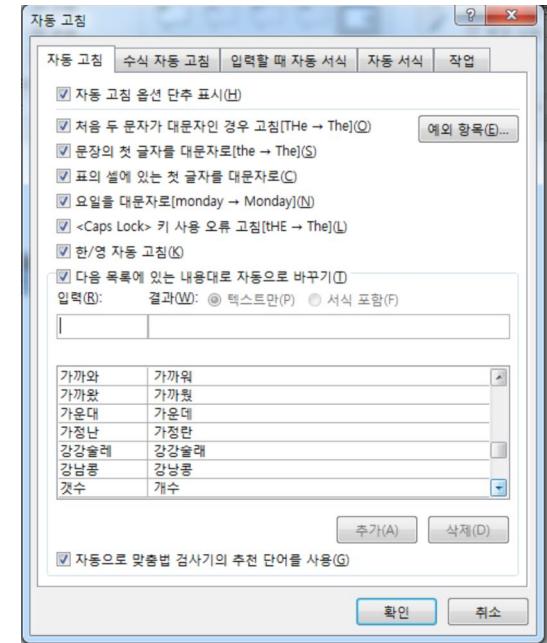
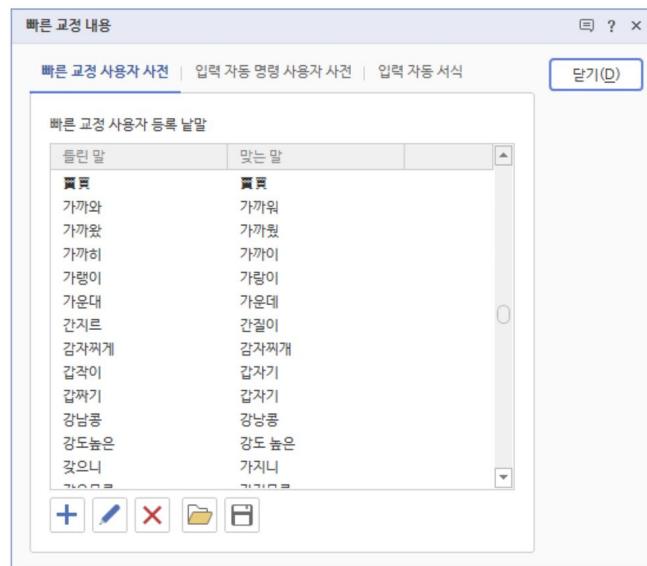
ubuCon ASIA
2021

Example of Auto correct feature on MS Word & HWP

Example of Auto correct features on MS Word & HWP

* HWP: “빠른 교정”

* MS Word: “자동 고침”



Extras

FLOSS in North Korea

FLOSS in North Korea

2009, KLDP(Korea Linux Document Project)

<https://kldp.org/node/108269>

North: 프로그램 South: 프로그램

홈 » Forums » 공부 » 설치 및 활용 QnA

응용프로그램 설치판 만들줄 아시는 분 !!!

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 10:10오후
설치 및 활용 QnA

여러개의 RPM 으로 된 리눅스 응용프로그램을
하나의 설치판으로 만들려고 하는데 영 아이디어가
생각나지 않아요.
설치시에 RPM 을 옵션으로 선택 설치하려고 해요.
고수님들께 부탁드려요.

< mount 옵션 한글 encoding 관련.

리눅스 서버에 대한 궁금증이 있습니다. >

말로 설명하는

글쓴이: 작성 일시: 수, 2009/08/26 - 10:15오후

말로 설명하는 것보다 직접 해보시는 것이 좋을 것 같습니다.

les4linux를 설치해보고
어떻게 만들었는지 분석해보세요.
간단합니다.

<http://www.tatanka.com.br/les4linux/page/Installation>

* 답글

미안

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 10:23오후

저는 Fedora 인데 여기서는 할수 없나요?

* 답글

예입니다. debian:~\$

글쓴이: 작성 일시: 수, 2009/08/26 - 10:54오후

예입니다.

```
debian:~$ dialog --checklist 'select rpm' 10 50 200 dialog 'select dialog package' status \
example 'select example package' status
```

이것을 어디에 어떻게 써먹을지 감이 안 잡히면 꼭 스크립트 책을 보셔야 합니다.

* 답글

그게 아니라...

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 10:58오후

윈도우에서
setup.exe 를 클릭해서 설치하는것과 같이
만들려고 하는데 왜 이해를 못하시는지 안타까워요.

* 답글

그래서 한번 보기나

글쓴이: 작성 일시: 수, 2009/08/26 - 11:02오후

그래서 한번 보기나 하셨나고 묻는겁니다.

emerge money

* 답글

정말..

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 11:08오후

거긴 그전 내용이 없어요..
???

* 답글

무슨 소린지???

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 10:30오후

왕조보리 영 암수 입네요.
좀 더 친절히 대주시면 감사하겠습니다

* 답글

모른다는 말만

글쓴이: 작성 일시: 수, 2009/08/26 - 10:42오후

모른다는 말만 배변해봤자 아무도 답변할수 없습니다.
redstar08302009님께서 모르는게 무엇인지를 말씀하시어야지요.

* 답글

좀...

글쓴이: redstar08302009 작성 일시: 수, 2009/08/26 - 10:54오후

내 질문을 모르겠다는건지...

* 답글

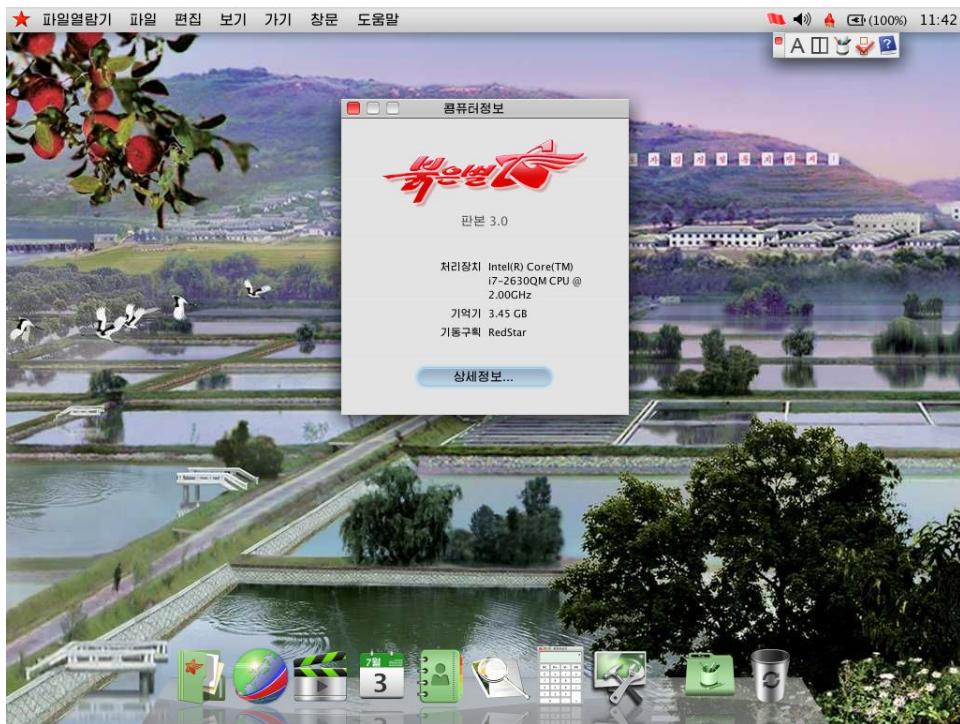
ubuCon ASIA
2021

FLOSS in North Korea

RedStar OS

North Korea's Linux Distribution

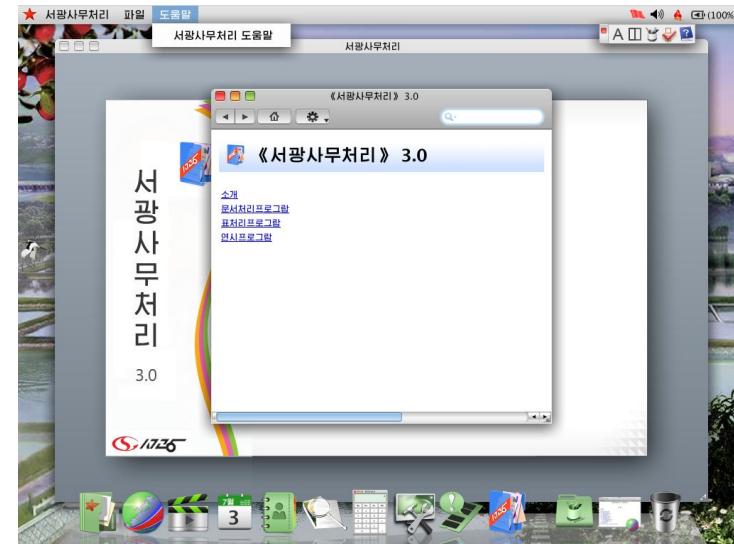
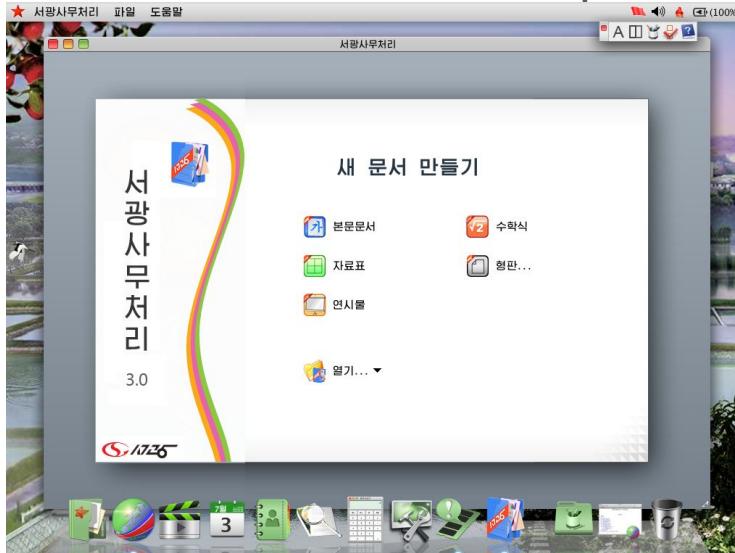
KDE-based GUI, Office suites based
on openOffice or LibreOffice, etc



FLOSS in North Korea

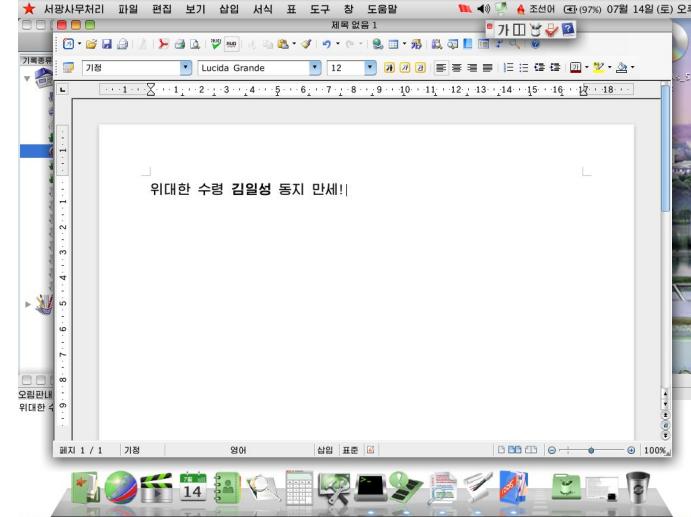
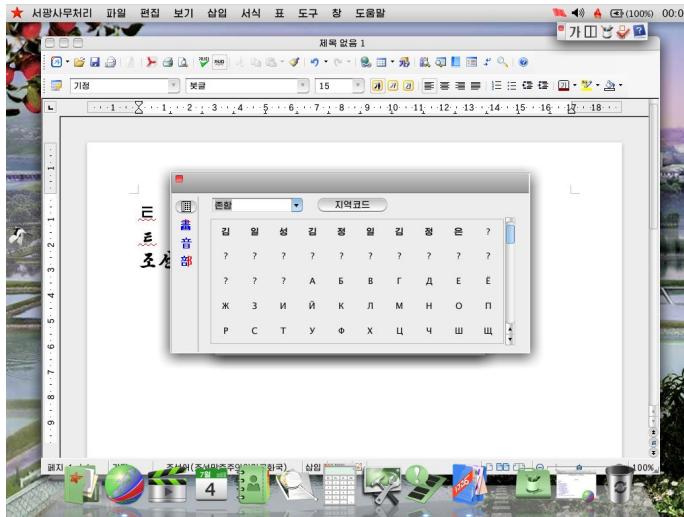
North Korea's Office suite “서광 (seo gwang)”

- It based on LibreOffice or openOffice



FLOSS in North Korea

Under North Korea's Character set standard, "KPS9566" shows nine multiply encoded hangul jamo 김일성 (Kim Il Sung, former DPRK's leader), 김정일 (Kim Jong il, former DPRK's leader), 김정은 (Kim Jong Un, DRPK's leader)



FLOSS in North Korea

Article: 붉은별 4.0 서광 오피스에서 MS 워드 파일 편집 가능하다 (Red Star 4.0 Seogwang Office can edit MS Word files) 2020.06.23.

<http://www.nkeconomy.com/news/articleView.html?idxno=3213>

FLOSS in North Korea

Teaching Open Source Software in North Korea

<https://izbicki.me/blog/teaching-open-source-in-north-korea.html>

Future works

Spread
“LibreOffice” in
Korea

Long term challenge
- promote LibreOffice &
ODF on Both Koreas

Thank you!