



LibreOffice®

리브레오피스 (LibreOffice) 의 버그질라 소개 및 사용법 , 버그 보고 방법

- ▶ 리브레오피스 (LibreOffice) 우리말 모듬
- ▶ 성대현 (DaeHyun Sung, 成大鉉 , ソン・デヒョン)
- ▶ 2021 년 08 월 27 일 금요일

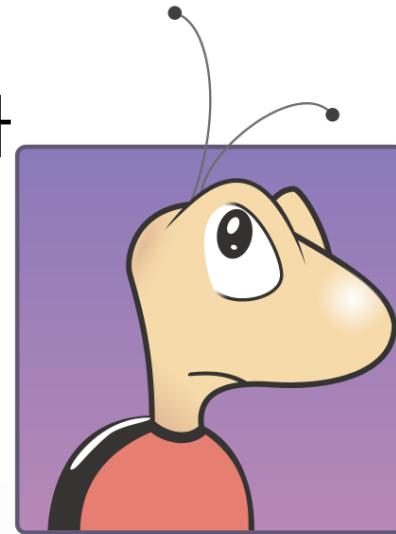
버그 추적 시스템 (BTS)

- ▶ 버그 추적 시스템 (BTS; Bug Tracking System)
 - ▶ 소프트웨어를 개발하고 테스트 할 때 발견되는 버그를 추적하고 관리하는 응용 소프트웨어
 - ▶ 종류
 - ▶ Redmine - <https://www.redmine.org/>
 - ▶ Mantis - <https://www.mantisbt.org/>
 - ▶ Trac - <https://trac.edgewall.org/>
 - ▶ Jira - <https://www.atlassian.com/software/jira>
 - ▶ Bugzilla - <https://www.bugzilla.org/>
 - ▶ Gitlab - <https://about.gitlab.com/>

버그질라 (Bugzilla)

- ▶ 웹 기반 다목적 버그 추적 시스템 , 테스트 도구 중 하나
- ▶ 모질라 프로젝트에서 시작
- ▶ 라이선스 : MPL(Mozilla Public License)
- ▶ 상세 내용은 다음을 참조 :

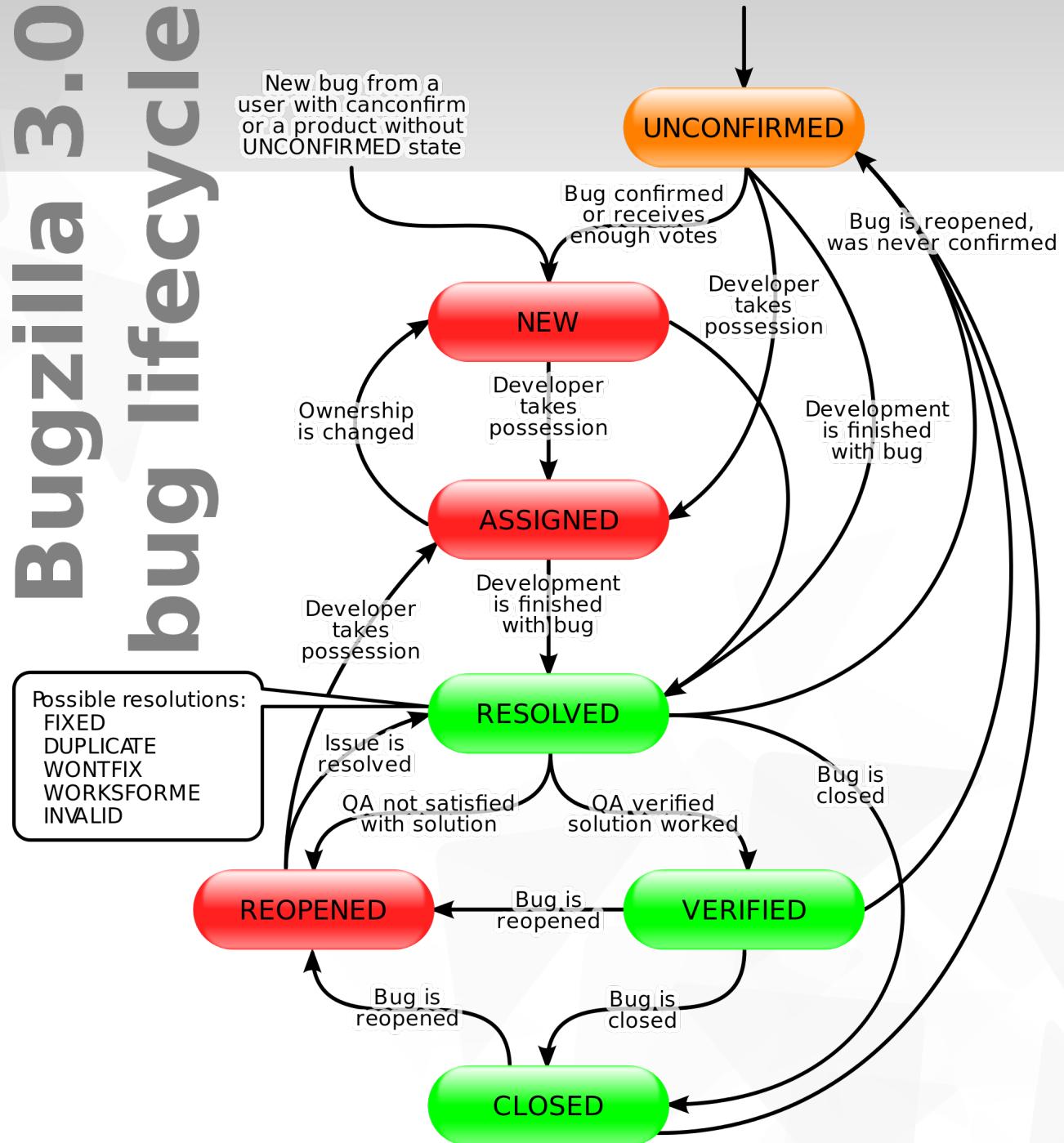
<https://ppua.tistory.com/entry/%EB%B2%84%EA%B7%B8%EC%A7%88%EB%9D%BCBugzilla-%EB%B2%84%EA%B7%B8-%EC%B6%94%EC%A0%81-%EC%82%AC%EC%9A%A9>



버그질라 (Bugzilla)

▶ 버그의 수명주기

Bugzilla 3.0 bug lifecycle



버그질라 (Bugzilla)

- ▶ 실제로 이용하는 자유오픈소스 프로젝트
 - ▶ Mozilla - <https://bugzilla.mozilla.org/>
 - ▶ Linux Kernel - <https://bugzilla.kernel.org/>
 - ▶ Eclipse - <https://bugs.eclipse.org/bugs/>
 - ▶ Red Hat - <https://bugzilla.redhat.com/>
 - ▶ openSUSE - <https://bugzilla.opensuse.org/>
 - ▶ Gentoo - <https://bugs.gentoo.org/>
 - ▶ LibreOffice - <https://bugs.documentfoundation.org/>

리브레오피스 버그질라

Bugzilla – Main Page

version 5.0.6

Home | New | Browse | Search | Search [?] | Reports | New Account | Log In | Forgot Password

LibreOffice
The Document Foundation

7.0 RC2 is available!
Help us to test it
Click here to download

File a Bug Search Open a New Account Documentation

Enter a bug # or some search terms Quick Search [?]

Common Queries:

Bugs reported in the last 24 hours | last 7 days
Bugs changed in the last 24 hours | last 7 days

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<https://bugs.documentfoundation.org/>

리브레오피스 버그질라

- ▶ 위키 (Wiki) - Bugzilla 항목
 - ▶ <https://wiki.documentfoundation.org/QA/Bugzilla>
- ▶ 버그 추적 시스템 (BTS) 는 리브레오피스 QA 팀에서 관리
 - ▶ <https://wiki.documentfoundation.org/QA/Team>
- ▶ 유용한 버그 내용 찾기
 - ▶ https://wiki.documentfoundation.org/QA/Bugzilla/Useful_Queries
- ▶ 버그 등록하는 방법 (How to Report Bugs in LibreOffice)
 - ▶ <https://wiki.documentfoundation.org/QA/BugReport>

리브레오피스 버그 등록 관련 알아야 할 사항

- ▶ 버그 작성 원칙 (Bug Writing Guidelines)
 - ▶ <https://bugs.documentfoundation.org/page.cgi?id=bug-writing.html>
- ▶ 가장 자주 보고된 버그 목록 (Most Frequently Reported Bugs)
 - ▶ <https://bugs.documentfoundation.org/duplicates.cgi>
- ▶ 버그 검색
 - ▶ <https://bugs.documentfoundation.org/query.cgi>

리브레오피스 버그질라 – 버그 찾기

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Common Queries:

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Bugs changed in the last 24 hours [RSS](#) | last 7 days [RSS](#)

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리브레오피스 버그질라 – 버그 추가

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File a Bug **Search** **Open a New Account** **Documentation**

Enter a bug # or some search terms Quick Search [?]

Common Queries:

Bugs reported in the last 24 hours [RSS](#) | last 7 days [RSS](#)
Bugs changed in the last 24 hours [RSS](#) | last 7 days [RSS](#)

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<https://bugs.documentfoundation.org/>

리브레오피스 버그질라 – 버그 추가

First, you must pick a product on which to enter a bug:

Our most popular projects:

[LibreOffice](#)

[Impress Remote](#)

All projects:

[cppunit](#): [Cppunit](#) is the C++ port of the famous JUnit unit testing framework.

[Document Liberation Project](#): The [Document Liberation Project](#) is a sister project to LibreOffice, aimed at facilitating the conversion of outdated/proprietary file formats to ODF via the creation and improvement of import file filters.

[Impress Remote](#): The family of LibreOffice Impress "[remote control](#)" apps designed for mobile platforms.
Available for Android, iOS, Pebble, and FirefoxOS.

[libexttextcat](#): [Libexttextcat](#) is an N-Gram-Based Text Categorization library primarily intended for language guessing.

[LibreOffice](#): The [LibreOffice office suite](#)

[LibreOffice Online](#): This product is meant only for LOOL - do not use it for desktop or Android ports.

[QA Tools](#): Tools developed by/for the QA Team (SI-GUI, etc..)

For more information on how to report a bug, please visit [our wiki page](#)

*All your contributions to this Bugzilla, including your e-mail address and other personal data contained in your bug report, will be **publicly available and cannot be deleted**. If you wish to attach a file to a bug report, please make sure to remove all personal/private information before bug submission. If you do not possess or cannot create suitable test documents that may be released under our licensing terms, please make a note in your bug report to this effect without attaching the file; we then will discuss alternatives with you.*

리브레오피스 버그질라 – 버그 추가

Before reporting a bug, please read the [bug writing guidelines](#), please look at the list of [most frequently reported bugs](#), and please [search](#) for the bug.

For more information on how to report a bug, please visit [our wiki page](#)

All your contributions to this Bugzilla, including your e-mail address and other personal data contained in your bug report, will be **publicly available and cannot be deleted**. If you wish to attach a file to a bug report, please make sure to remove all personal/private information before bug submission. If you do not possess or cannot create suitable test documents that may be released under our licensing terms, please make a note in your bug report to this effect without attaching the file; we then will discuss alternatives with you.

* Summary:

A sentence which summarises the problem. Please be descriptive and use lots of keywords.

Bad example: LibreOffice crashed

Good example: Crash if I open the Print dialog and click the 'Options' tab

Description

Expand on the Summary. Please be as specific as possible about what is wrong.

Bad example: It crashed and fix it now!

Good example: After LibreOffice crashed
all of my footnotes are no longer appearing when I print the document.

리브레오피스 버그질라 – 버그 추가

all of my footnotes are no longer appearing when i print the document.

* **Component:**

Android Editor
Android Viewer
Base
BASIC
Calc

Select a component to see its description here.

To pick the right component, you could use the same one as similar bugs you found in your search, or read the full list of [component descriptions](#) (opens in new window) if you need more help.

Hardware

All

Operating System

All

* **Version:**
[\(earliest affected\)](#)

3.3.0 release
3.3.1 release
3.3.2 release
3.3.3 release
3.3.4 release

Reproducibility Happens every time.

Severity

Normal: It's a bug that should be fixed.

Choose **Enhancement** if your bug is a request for a new feature.

리브레오피스 버그질라 – 버그 추가

Steps to Reproduce

- 1.
- 2.
- 3.

Please provide a clear set of step-by-step instructions on how to reproduce the problem.

Actual Results

What happened after you performed the steps above?

Expected Results

What should the software have done instead?

Other Information

Please copy here the information from menu **Help - About LibreOffice**. You can also add other information that might be relevant

Did you try resetting your UserProfile?

To be certain the reported issue is not related to corruption in the user profile, **try resetting your profile** as described in the [instructions for resolving User Profile corruption](#).

Is OpenGL enabled?

Some bugs are only reproducible if OpenGL is enabled, thus [checking](#) whether OpenGL is enabled is useful.

IMPORTANT: In case you need to attach to the bug, Please use the "Add an Attachment" link once the bug is filled.

[Submit Bug Report](#)

리브레오피스 버그질라

- ▼ 자주하는 질문 (FAQ)
- ▼ <https://wiki.documentfoundation.org/QA/Bugzilla/FAQ>

리브레오피스 버그질라 실제 예시

- ▶ 버그 예시
 - ▶ CJK 글꼴 예제 표기에 대한 버그
 - ▶ [CJK Issue, Enhancement] Distinguishing both Korean and Japanese font from all CJK[Chinese-Japanese-Korean] fonts such as Noto CJK font series and Source Han Sans series, etc.
 - ▶ https://bugs.documentfoundation.org/show_bug.cgi?id=134742
 - ▶ 한자 (漢字) 의 갖은자 표기 수정
 - ▶ Korea's Hanja Upper Numbers[한자 갖은자] 5 and 1000 are wrong
 - ▶ https://bugs.documentfoundation.org/show_bug.cgi?id=130077

한국어를 모르는 외국인

▶ 예 . UX(User eXperience)

▶ 해당 이슈에 대하여 문제 제기

▶ Bug 132080 - elementary: Wrong Glyphs with Korean UI

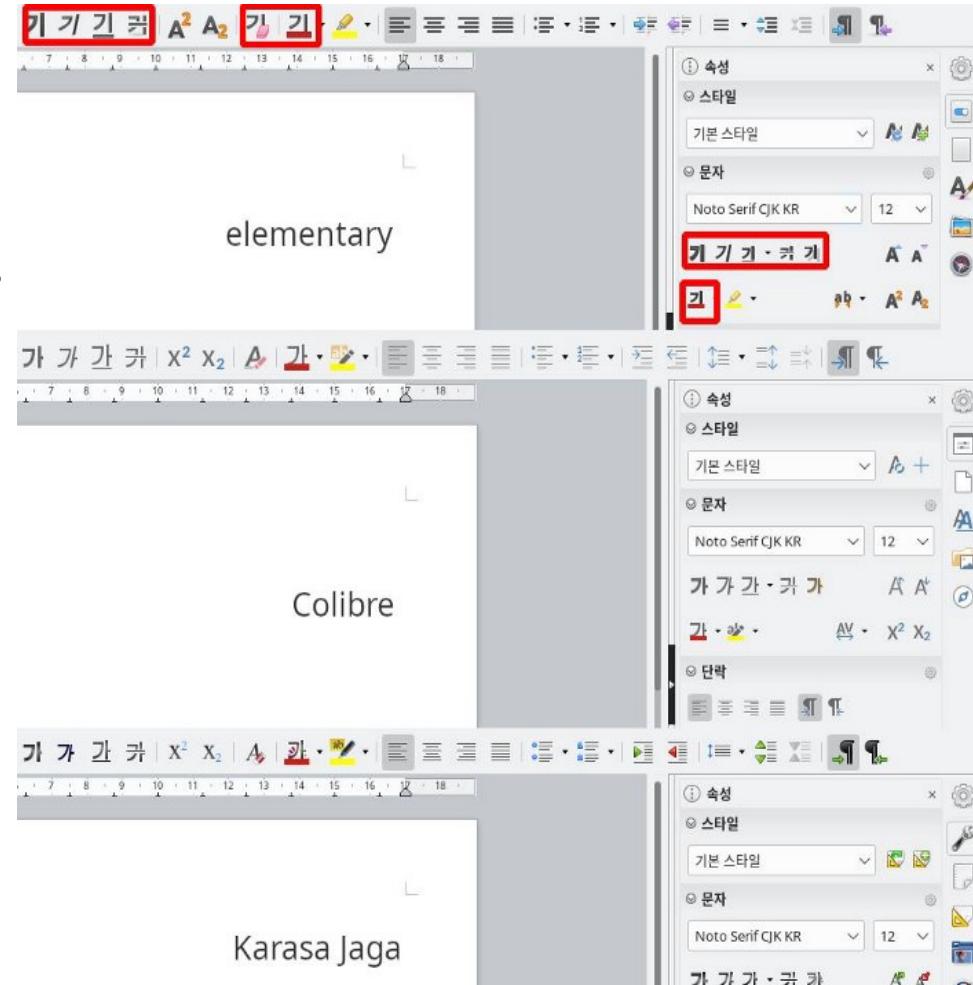
https://bugs.documentfoundation.org/show_bug.cgi?id=132080

▶ Bug 128689 — Request to Localize More Formatting Icons into Korean UI

https://bugs.documentfoundation.org/show_bug.cgi?id=128689

▶ Bug 132080 – elementary: Wrong Glyphs with Korean UI

https://bugs.documentfoundation.org/show_bug.cgi?id=132080



CJK 환경을 모르는 외국인

- ▼ 예 . 스프레드시트 (Spreadsheet) 프로그램 - 캘크 (Calc)
- ▼ CJK – 동아시아 한자문화권 (漢字文化圈)
 - ▼ 한국어의 갖은자와 일본어의 갖은자 [大字] 오류 확인
 - ▼ 버그 보고 (Bugzilla)
 - ▼ Bug 130140 - There is a string display error with numbers above 10 about All Korean Numeric text and Japanese Modern Numeric text
https://bugs.documentfoundation.org/show_bug.cgi?id=130140
 - ▼ Bug 130193 - Japanese Traditional Numeric texts are wrong such as 1,2,3, 10, 1000, 10000
https://bugs.documentfoundation.org/show_bug.cgi?id=130193
 - ▼ Bug 130077 - Korea's Hanja Upper Numbers[한자 갖은자] 5 and 1000 are wrong
https://bugs.documentfoundation.org/show_bug.cgi?id=130077

CJK 환경을 모르는 외국인

- ▼ 예 . 스프레드시트 (Spreadsheet) 프로그램 - 캘크 (Calc)
- ▼ CJK – 동아시아 한자문화권 (漢字文化圈)
 - ▼ 한국어의 갖은자와 일본어의 갖은자 [大字] 오류 확인
 - ▼ 소스코드 제출 및 커밋 코드
 - ▼ Gerrit 리뷰 시스템
 - ▼ tdf#130193: Asian Excel-Calc number format interop
<https://gerrit.libreoffice.org/c/core/+/94376>
 - ▼ Remapping NatNum-DBNum in Korean for compatibility tdf#130193
<https://gerrit.libreoffice.org/c/core/+/94747>
 - ▼ 커밋 (Commit)
 - ▼ tdf#130193: Asian Excel-Calc number format interop
<https://git.libreoffice.org/core/+/9efd7cd637d9d882f2fc8277b657ec117c591e80>
 - ▼ Remapping NatNum-DBNum in Korean for compatibility tdf#130193
<https://git.libreoffice.org/core/+/51404171449eadcb69057ff03ccb7bdb0117910b%5E%21>

CJK 환경을 모르는 외국인

▼ 수정 전

The screenshot shows a LibreOffice Calc spreadsheet titled "excel_2019_cjk_number_more_ten_test.xlsx". The table compares the representation of numbers from 0 to 24 in various CJK (Chinese, Japanese, Korean) and Western contexts. The columns include:

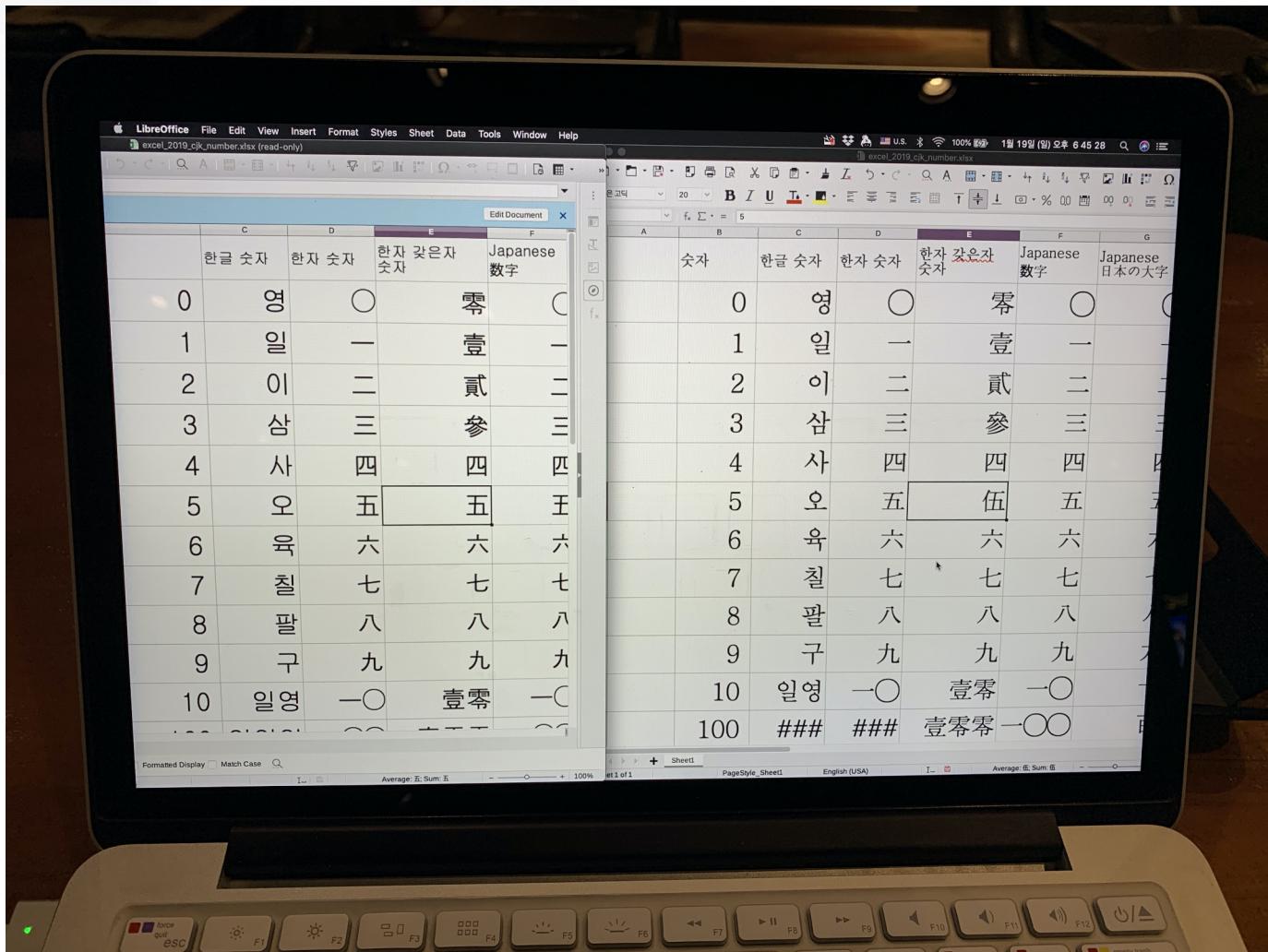
- Column B: 숫자 (Arabic numerals)
- Column C: 한글 숫자 (Hangeul)
- Column D: 한자 숫자 (Hanja)
- Column E: 한자 같은자 숫자 (Hanja-like characters)
- Column F: Japanese 数字 (Arabic numerals)
- Column G: Japanese 日本の大字 (Large Hanja characters)
- Column H: Mainland China 大写 (Large Chinese characters)
- Column I: Mainland China 小写 (Small Chinese characters)
- Column J: Taiwan 大寫 (Large Taiwanese characters)
- Column K: Taiwan 小寫 (Small Taiwanese characters)

The data shows how each culture uses different characters to represent the same numerical values. For example, '1' is represented by '일' in Hangeul, '一' in Hanja, '一' in Japanese large characters, and '一' in Mainland Chinese large characters. The '한자 같은자 숫자' column contains characters like '영' (Eung), '이' (I), '삼' (Sam), etc., which are not standard Hanja but are used in some contexts.

	숫자	한글 숫자	한자 숫자	한자 같은자 숫자	Japanese 数字	Japanese 日本の大字	Mainland China 大写	Mainland China 小写	Taiwan 大寫	Taiwan 小寫
1	0	영	〇	零	〇	〇	〇	〇	〇	〇
2	1	일	一	壹	一	一	一	一	壹	一
3	2	이	二	貳	二	二	二	二	貳	二
4	3	삼	三	參	三	三	三	三	叁	三
5	4	사	四	四	四	四	四	肆	四	肆
6	5	오	五	五	五	五	五	伍	五	伍
7	6	육	六	六	六	六	六	陆	六	陸
8	7	칠	七	七	七	七	七	柒	七	柒
9	8	팔	八	八	八	八	八	捌	八	捌
10	9	구	九	九	九	九	九	玖	九	玖
11	10	일영	一〇	壹零	一〇	十	一十	壹拾	一十	壹拾
12	11	일일	一一	壹壹	一一	十一	一十一	壹拾壹	一一	壹拾壹
13	12	일이	一二	壹貳	一二	十二	一十二	壹拾貳	一二	壹拾貳
14	13	일삼	一三	壹參	一三	十三	一十三	壹拾叁	一三	壹拾參
15	14	일사	一四	壹四	一四	十四	一十四	壹拾肆	一四	壹拾肆
16	15	일오	一五	壹五	一五	十五	一十五	壹拾伍	一五	壹拾伍
17	16	일육	一六	壹六	一六	十六	一十六	壹拾陆	一六	壹拾陆
18	17	일칠	一七	壹七	一七	十七	一十七	壹拾柒	一十七	壹拾柒
19	18	일팔	一八	壹八	一八	十八	一十八	壹拾捌	一十八	壹拾捌
20	19	일구	一九	壹九	一九	十九	一十九	壹拾玖	一十九	壹拾玖
21	20	이영	二〇	貳零	二〇	二十	二十	貳拾	二十	貳拾
22	21	이일	二一	貳壹	二一	二十一	二十一	貳拾壹	二十一	貳拾壹
23	22	이이	二二	貳貳	二二	二十二	二十二	貳拾貳	二十二	貳拾貳
24										

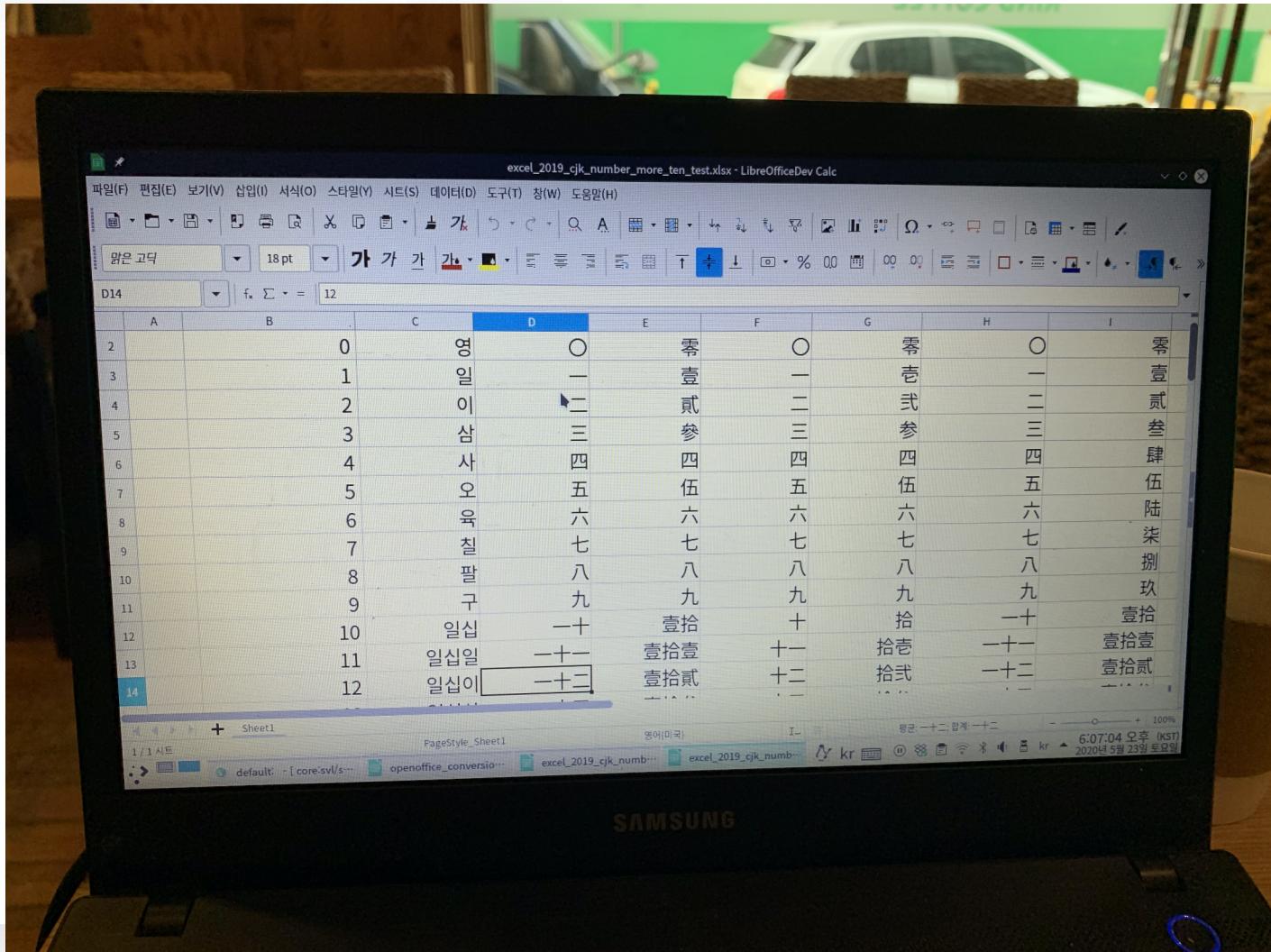
CJK 환경을 모르는 외국인

▼ 수정 후 - 갖은자 5 의 한자 (漢字) 를 五에서 伍로 변경



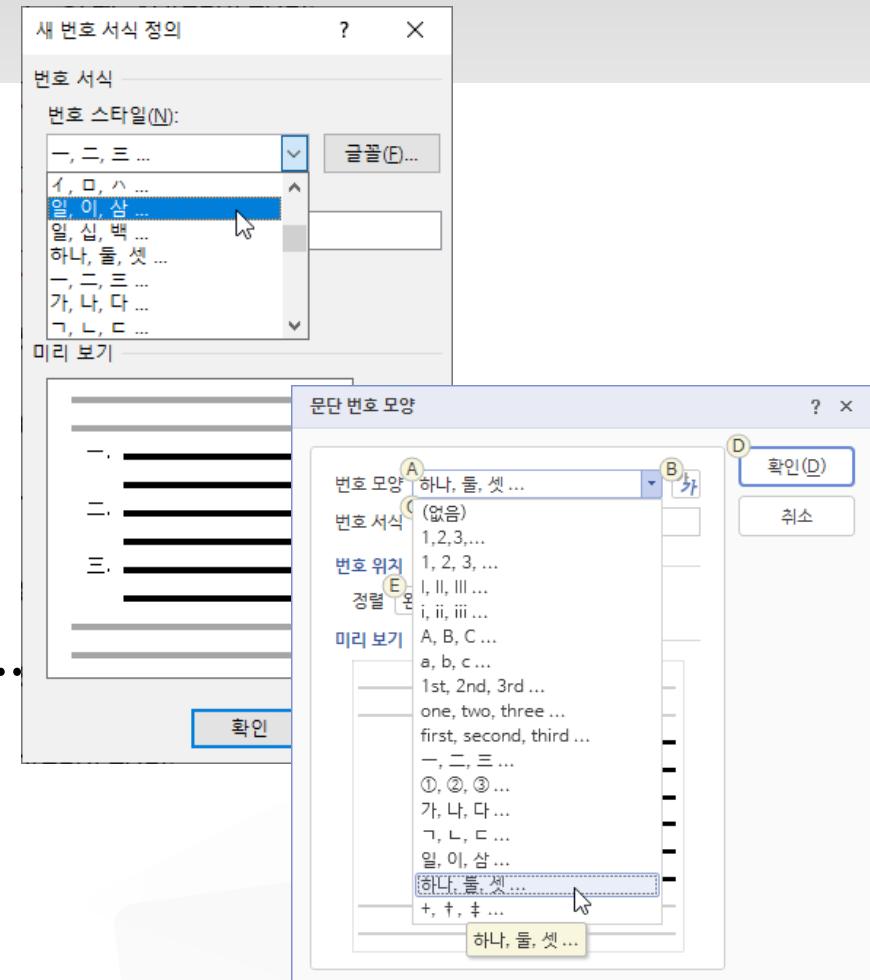
CJK 환경을 모르는 외국인

▼ 수정 후 - 숫자의 문자 표기 변경



MS Word, HWP, LibreOffice 의 한글 숫자 표현

- ▶ MS 워드에서 한국어 숫자 표현
 - ▶ korean-counting: 일, 이, 삼 ...
 - ▶ korean-legal: 하나, 둘, 셋 ...
 - ▶ korean-digital: 일, 일영, 일영영 ...
 - ▶ korean-digital2: —, 一零, 一零零 ...
 - ▶ ganada – 가, 나, 다 ...
 - ▶ chosung – ㄱ, ㄴ, ㄷ ...
- ▶ 참고



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

Korean-legal 오류 발견

The image shows three side-by-side screenshots of document editors. The left screenshot is Microsoft Word, the middle is LibreOffice Writer, and the right is another instance of LibreOffice Writer. All three screens display the same document content, which lists various Korean numbers followed by the word "koreanLegal". The text is underlined in red, indicating it is flagged as an error. The LibreOffice instances show additional context menus or toolbars that are not present in the Word interface.

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

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

일. 1: 하나 koreanLegal
이. 2: 둘 koreanLegal
삼. 3: 셋 koreanLegal
사. 4: 넷 koreanLegal
오. 5: 다섯 koreanLegal
육. 6: 여섯 koreanLegal
칠. 7: 일곱 koreanLegal
팔. 8: 여덟 koreanLegal
구. 9: 아홉 koreanLegal
십. 10: 열 koreanLegal
십일. 11: 열하나 koreanLegal
십이. 12: 열둘 koreanLegal
십삼. 13: 열셋 koreanLegal
십사. 14: 열넷 koreanLegal
십오. 15: 열다섯 koreanLegal
십육. 16: 열여섯 koreanLegal
십칠. 17: 열일곱 koreanLegal
십팔. 18: 열여덟 koreanLegal
시그. 19: 열아홉 koreanLegal

Korean-digital 오류 발견

The image displays three side-by-side screenshots of document editors. The left screenshot shows Microsoft Word with numerous red wavy underlines under Korean characters, indicating spelling errors. The middle screenshot shows LibreOffice Writer with similar red underlines. The right screenshot shows LibreOffice Writer with a message at the top stating "이 문서는 읽기 전용 모드로 열렸습니다." (This document is in read-only mode). The text in all three windows is identical, listing 15 examples of Korean digital characters (e.g., 일, 이, 삼, 사, 오, 육, 칠, 팔, 구, 일영, 일일, 일이, 일삼, 일사) followed by the English phrase "koreanDigital example".

번호	형태	내용
1.	일	koreanDigital example
2.	이	koreanDigital example
3.	삼	koreanDigital example
4.	사	koreanDigital example
5.	오	koreanDigital example
6.	육	koreanDigital example
7.	칠	koreanDigital example
8.	팔	koreanDigital example
9.	구	koreanDigital example
10.	일영	koreanDigital example
11.	일일	koreanDigital example
12.	일이	koreanDigital example
13.	일삼	koreanDigital example
14.	일사	koreanDigital example
15.	일오	koreanDigital example

Korean-digital2 오류 발견

The screenshot displays two document editors side-by-side, comparing the rendering of Korean-Digital2 characters.

Microsoft Word (Left):

- 1: 一 koreanDigital2 Example
- 2: 二 koreanDigital2 Example
- 3: 三 koreanDigital2 Example
- 4: 四 koreanDigital2 Example
- 5: 五 koreanDigital2 Example
- 6: 六 koreanDigital2 Example
- 7: 七 koreanDigital2 Example
- 8: 八 koreanDigital2 Example
- 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

LibreOffice Writer (Right):

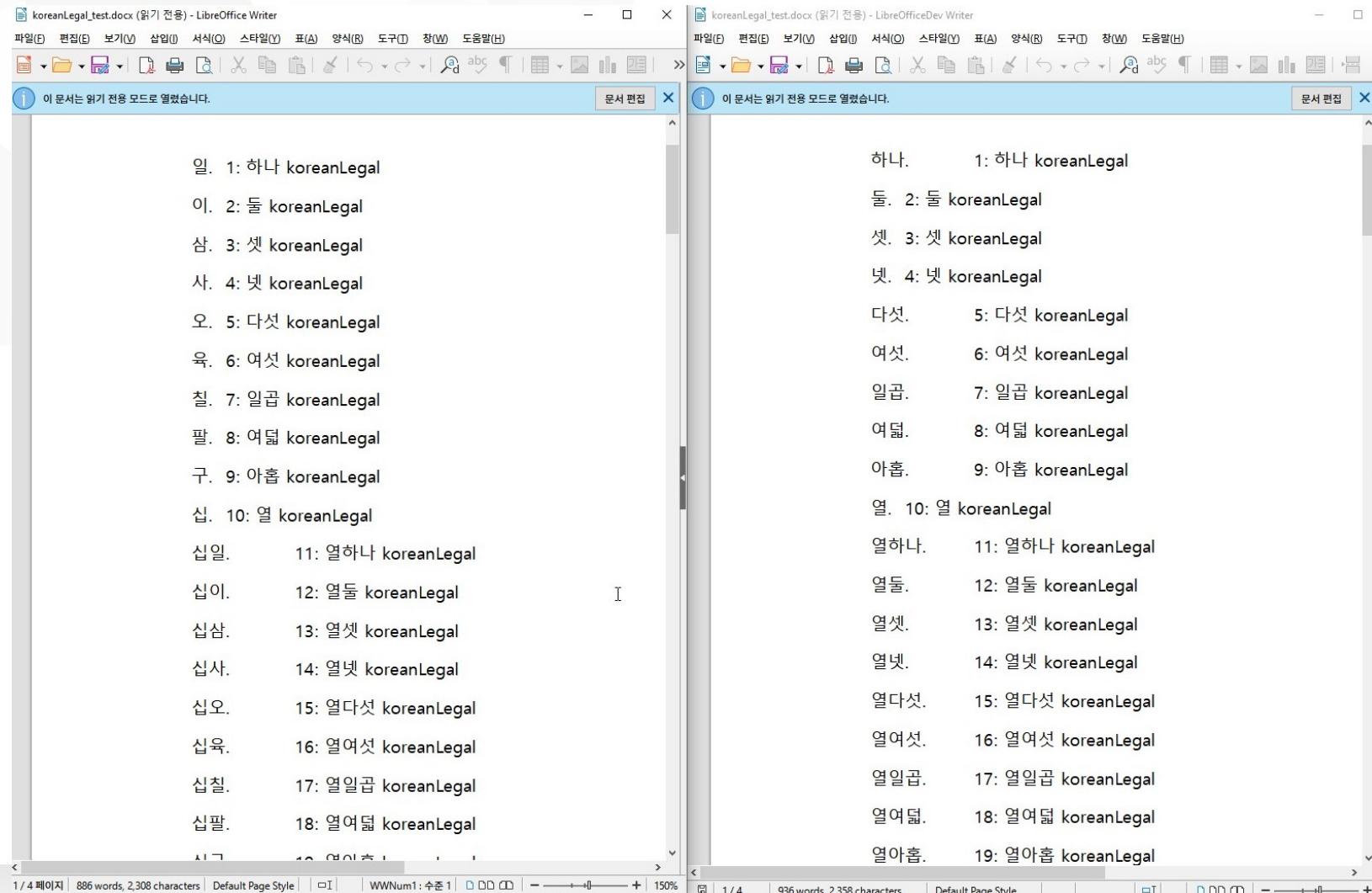
- 1: 一 koreanDigital2 Example
- 2: 二 koreanDigital2 Example
- 3: 三 koreanDigital2 Example
- 4: 四 koreanDigital2 Example
- 5: 五 koreanDigital2 Example
- 6: 六 koreanDigital2 Example
- 7: 七 koreanDigital2 Example
- 8: 八 koreanDigital2 Example
- 9: 九 koreanDigital2 Example
- 一零. 10: 一零 koreanDigital2 Example
- 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

오류 보고 및 오류 수정

- ▶ 버그zilla 보고
 - ▶ Korean NumberFormats are missing and wrong on the Code
https://bugs.documentfoundation.org/show_bug.cgi?id=143526
- ▶ 소스코드 제출 및 리뷰 완료 , 적용
 - ▶ 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>
 - ▶ tdf#143526 Korean numbering import/export support
<https://gerrit.libreoffice.org/c/core/+/120509>

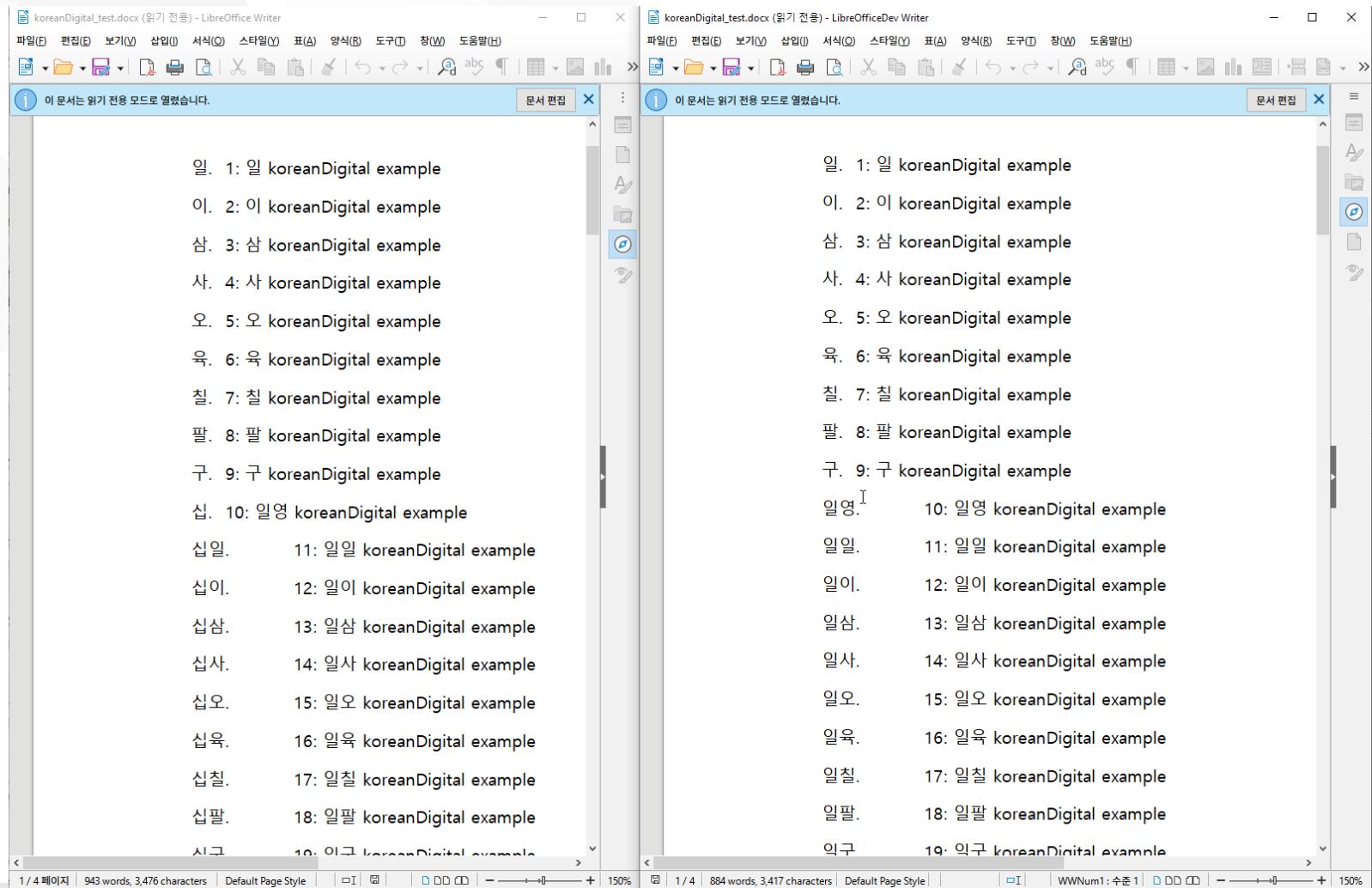
LibreOffice 의 한글 숫자 표현 수정

▼ Korean-legal 설정



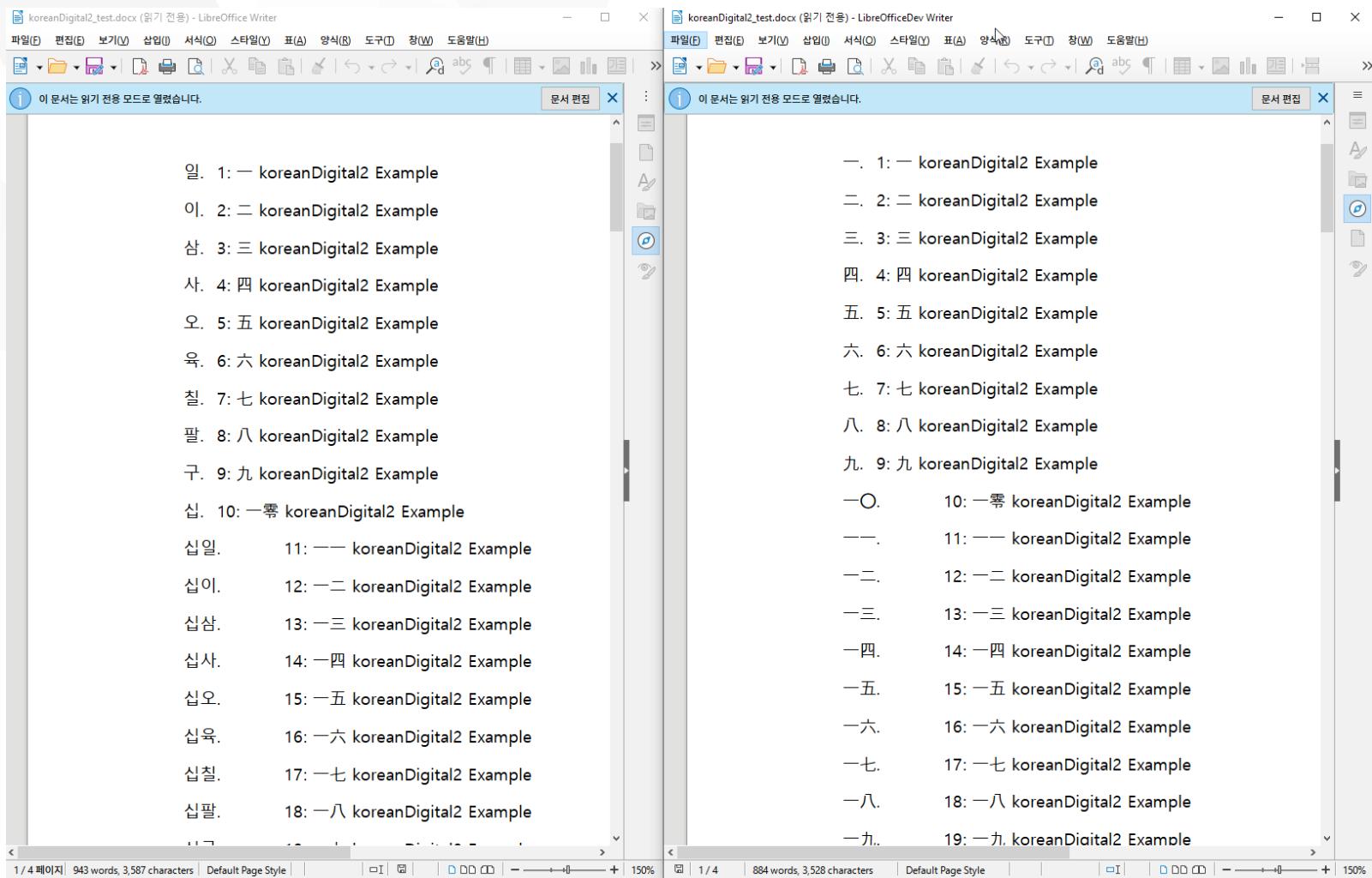
LibreOffice 의 한글 숫자 표현 수정

▼ Korean-digital 설정



LibreOffice 의 한글 숫자 표현 수정

▼ Korean-digital2 설정





LibreOffice®

고맙습니다

- ▼ 사용해보면서 버그를 찾아 보고해보십시오



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