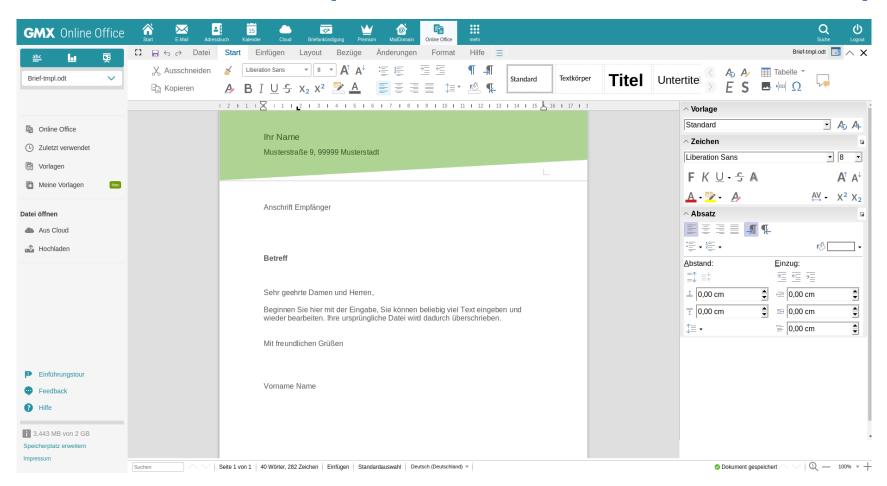
1&1 Mail&Media

HOW COOL IS USED AT 1AND1



Online Office Editor (uses Collabora Online with tweaks)



Integrating COOL (UI wise) into a setup

- Custom UI changes/tweaks are expected, plan for them
- There are 2 types of code changes: those that will benefit the community and those that are specific to your project
- Changes benefitting the community can be applied in the original COOL code, the others should ideally treat COOL as a blackbox

Changes benefitting the community

- These should be documented in a central place, to keep track of them
- Should end up in the community as soon as possible, to be available in future upgrades and not having to reapply them
- A comments standard should be used to make them easily discoverable in the code and link to the original task/bug

Changes benefitting the community

```
alexandru@LXBU-6SS7HR2:~/www/lo-online-collabora (b-co-6.4.0)$ grep -r "OOE Update"
 -exclude-dir="dist" --exclude-dir=".git" --exclude-dir="node_modules" --exclude-dir="
archived packages" --exclude-dir="release" -l
 /loleaflet/src/control/Control.AlertDialog.js
```

Contributions – 4 PRs opened / at least 16 planned UI wise

☐ 【1 1 Open ✓ 3 Closed	Author ▼	Label ▼	Projects ▼	Milestones ▼	Reviews •	Assignee ▼	Sort ▼
□ \$\mathbb{I}\$ loleaflet: add menubar shortcuts where applicable × #3178 opened 13 days ago by alessioalex-1and1 • Approved • 4 of 6 tasks							□ 5
□					<u>0</u> 1		□ 1
loleaflet: add demo for opening multiple docs and switching be #3123 by alessioalex-1and1 was merged 20 days ago 0 5 of 6 tasks	etween them ×				⊙ 1		□ 3
□ leaflet: fix slide format JS bug in presentations ✓ #3100 by alessioalex-1and1 was merged 27 days ago • Approved ○ 5 of 6 tasks					<u></u> 1		□ 2

Custom changes specific to a project

- Keep custom JavaScript / CSS / HTML changes in separate files in a new folder
- Build COOL with production flag enabled (<u>make</u> will output a single JavaScript file as well as a single CSS file)
- Prepend JavaScript changes to the bundle and append CSS changes to it (run make, concatenate custom changes with COOL bundle, then minify everything)

Custom changes – a simple NPM command

```
"build:css": "cat resources/loleaflet.css | uglifycss >> ../dist/bundle.css",
    "build:assets": "npm run copy:resources && npm run build:css && npm run update-cdn-path
s",
    "build:js": "cat resources/*.js | uglifyjs > /tmp/bundle.js && cat ../dist/bundle.js >>
    /tmp/bundle.js && mv /tmp/bundle.js ../dist/bundle.js",
    "build": "cd .. && make clean-local && make MINIFY=false && cd 1and1-custom && npm run
build:assets && npm run build:js",
```

Custom changes specific to a project - examples

- Override the native WebSocket and Ajax constructors to append that sneaky Java jsessionid everywhere
- Freeze console.log so that other developers will not turn into Liam Nelson from Taken and chase you everywhere
- Change some icons that to look more similar to the application in which you embed COOL into
- Intercept clicking on links so that they go though a derefferer initially (reason: scanning links for malicious websites for example)
- And many more

Final goal – keep customizations to a minimum

- If possible, contribute every single change you make to the community
- Others will benefit from your work and improve the code you have contributed
- You won't have to reapply anything when upgrading to a newer version
- Win-win

Thank you!

