

Comfortable Sakai: UX Enhancement of the Sakai LMS from students' perspective

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Agenda

Background

Successful adoption of Comfortable PandA at Kyoto Univ.

Development of Comfortable Sakai

Future of Comfortable Sakai





Background





Comfortable Sakai Overview

- A Web browser extension for enhancing UX of Sakai LMS
 - > Open-Source Software
 - Developing in GitHub: <u>https://github.com/kyoto-u/comfortable-sakai</u>
- ➤ Works with major modern web browsers ☺



Used by 60~70% of students in Kyoto Univ.





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Pain Points of Sakai LMS for Students at Kyoto Univ.

- LMS usage has been rapidly increased since COVID-19
 - > ex. Two courses per semester \rightarrow 10~20 courses per semester (my case)
 - \geq ex. 4 submissions per semester \rightarrow 60+ submissions per semester (my case)
- > No means to check a list of All assignments for All course sites
 - Missed some assignments
 - > Another task management tool was required to track assignment status

Had to deal with these problems





Requirements to Reduce Pain Points

Aggregated list of assignments

Easy way to see the status of each assignments

➤ Easy to install, use, and maintain (← Very important!)

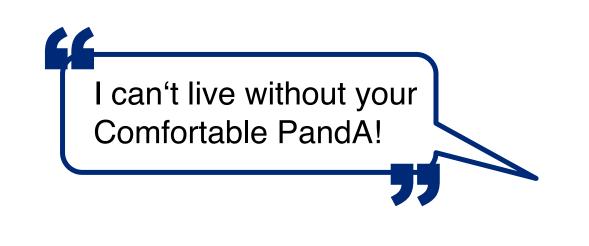




Release of the Extension for Kyoto Univ.

- Released "Comfortable PandA" in May, 2020
 - PandA: Sakai LMS at Kyoto Univ.
- > Many positive comments from users

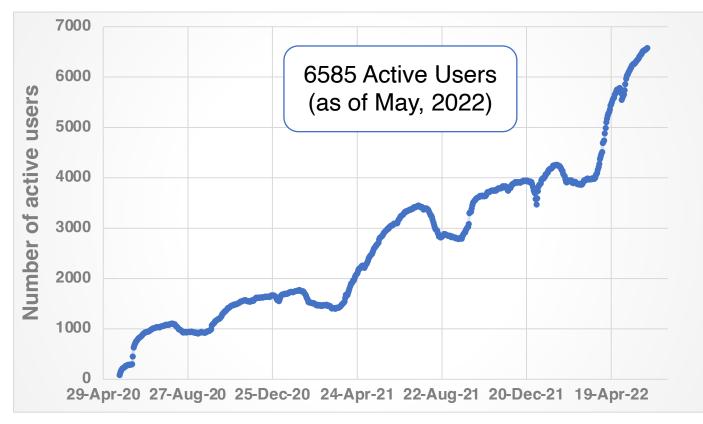






Successful adoption for Kyoto Univ.

- Number of active users are continuously increasing
 - Over 60% of students are using the extension
- Central IT of Kyoto Univ. has been officially recognized as a third-party tool
- Got some requests to use the extension from other university student







Development of Comfortable Sakai





Requirements beyond Comfortable PandA

- Inheritated useful features from Comfortable PandA
- Easy to use with <u>any</u> Sakai LMS instances at other institutions
 NOT just only for Kyoto Univ.!
- Multi-language support
 - English and Japanese (as of now)



- Available at every extension store of supported web browser
 - An issue: still depending on me





Inheritated Features from Comfortable PandA

Colored course site tabs

Notification Badge

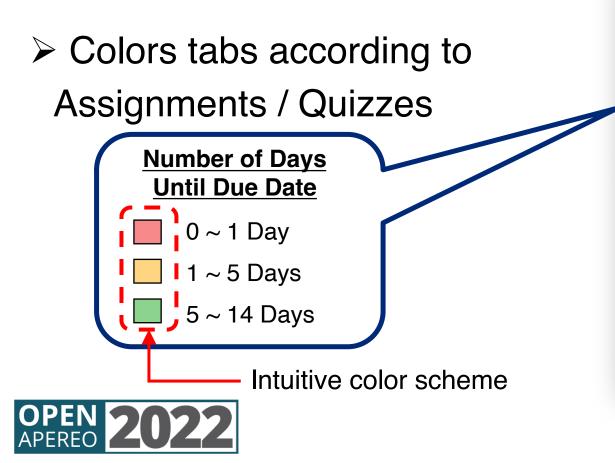
➤ miniSakai





Inheritated Features from Comfortable PandA (1/3)

Colored course site tabs



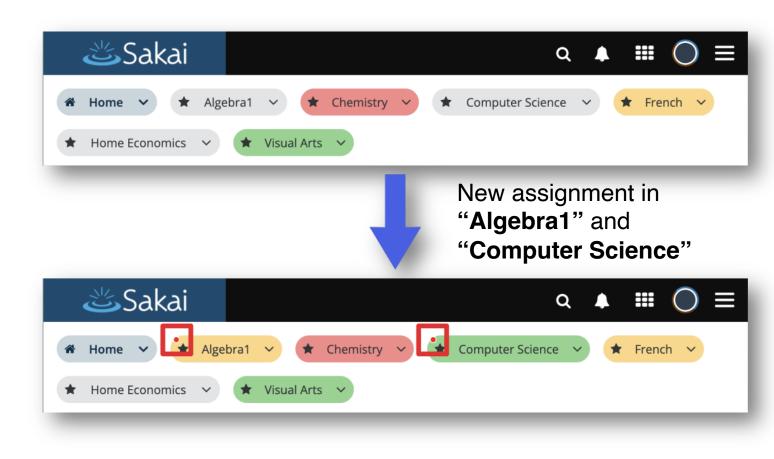
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E	
	Message Of The Day
	Options
1	There are currently no messages at this location.
•≎° 	Home Information Display



Inheritated Features from Comfortable PandA (2/3)

Notification Badge

- Displayed when a new assignment is published
- Students will less often miss un-announced assignments





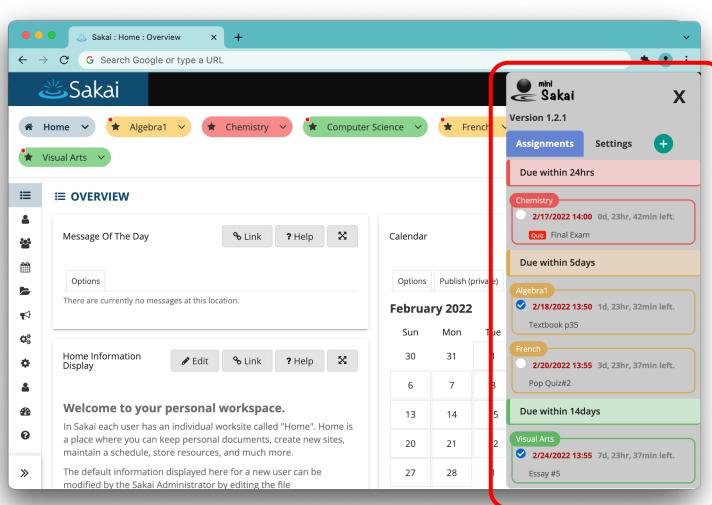


Inheritated Features from Comfortable PandA (3/3)

<u>miniSakai</u>

A side panel list that shows aggregated list of assignments



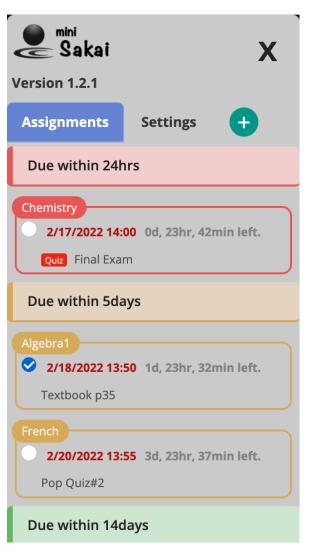




Inheritated Features from Comfortable PandA (3/3)

<u>miniSakai</u>

- Displays all assignments and quizzes sorted by its due date
- Has check boxes to manage submission status

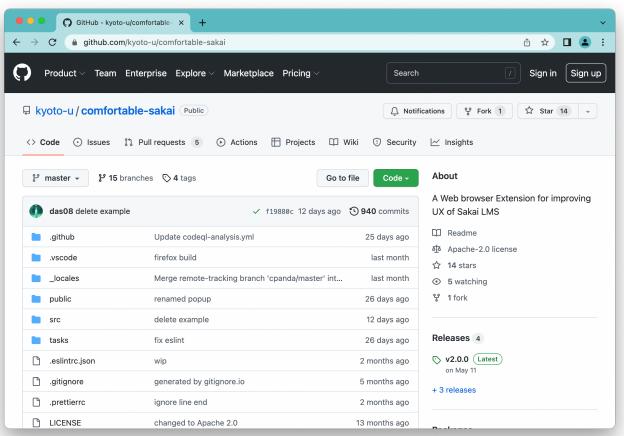






Comfortable Sakai is an Open-Source Software

Available at GitHub public repository







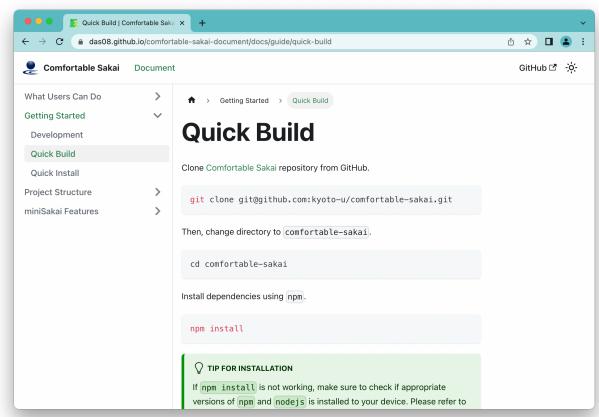


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Documentation for Development

> Available at GitHub pages:

<u>https://das08.github.io/comfortable-sakai-document/</u>



Quick guide for development and installation





Try out "Comfortable Sakai"!

Download from the store:

<u>https://chrome.google.com/webstore/detail/comfortable-sakai/dljchadmceknaijmdmnaaodjkkidhakh</u>

- https://addons.mozilla.org/ja/firefox/addon/comfortable-sakai/
- https://apps.apple.com/jp/app/comfortable-panda/id1572408187?mt=12

Instruction to use and source code available at:

https://github.com/kyoto-u/comfortable-sakai







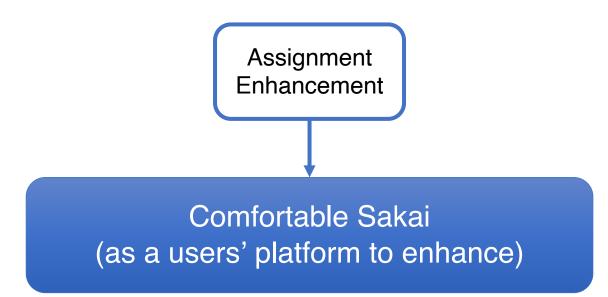
Opprotunities and Concerns of Comfortable Sakai





Opportunities of Comfortable Sakai

> Currently, the focus is on assignment-related features



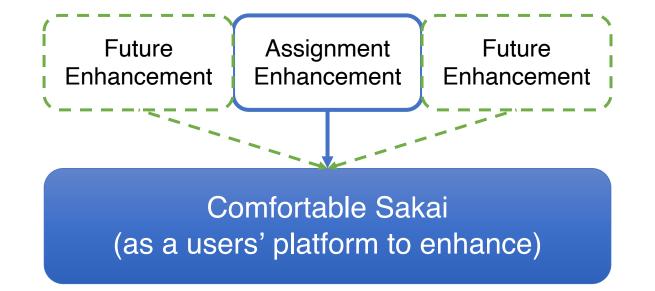




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Opportunities of Comfortable Sakai

Can be used as a foundation to add other useful features



Many features can be built on to Comfortable Sakai Extension

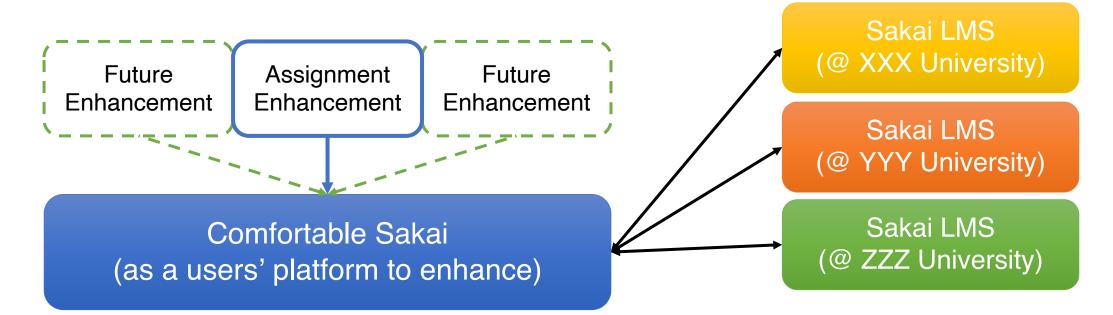




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Opportunities of Comfortable Sakai

Comfortable Sakai can be used with <u>any</u> Sakai LMS instances



Students can benefit from these features just by installing the extension!





Opportunities of Comfortable Sakai

- By using Comfortable Sakai Extension as a platform of users' developed tools...
 - ✓ Collabolative student-led enhancement of Sakai LMS!
 - \checkmark ex. Annual Apereo sponsored festival collaborated with capstone courses at Sakai schools
 - ✓ Developed features can be used across other Sakai LMS instances!
 - ✓ <u>No need to update & restart Sakai instance itself</u>
 - ✓ Just 1 click to install extension!





Concerns of Comfortable Sakai

- Sustainable project resources for development & maintenance
 - Core student developers will graduate in a year
 - But students' eyes are mandate for future development
 - > The way for reincarnation of core student developers is unclear

- Continuous responsibilities for user community
 - > Already receiving several "Pull Requests" (code contributions)





Concerns of Comfortable Sakai

- > We need colabolators as a:
 - <u>User</u>: Requesting new features and reporting bugs
 - Developer: Adding new features and fixing bugs
 - Institution: Officially supporting Comfortable Sakai on campus

- > We need the official community for Comfortable Sakai
 - > Planning to apply for an incubation process to launch an official Apereo project
 - > Looking for at least three Apereo member institutions to meet the criterion







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We welcome your participation!!



