



# LEARNING EQUALITY

Bridging the digital divide, to bring high quality  
education to the disconnected world

# Vision

A complete primary and secondary digital curriculum in every language of the world, aligned to every national and state curricular standard, openly licensed and integrated into open-source software for offline distribution into low-resource contexts, providing adaptive self-paced learning for students, 'just in time' pedagogic assistance for teachers, and learning experiences that bridge real world and digital instruction.



**Kolibri is an open-source ed-tech platform and toolkit designed for low-resource communities, focused on:**

- overcoming **infrastructural barriers** preventing equitable access
- increasing the availability of **relevant, aligned learning materials**
- fostering **innovative pedagogy** and effective **learning outcomes**



Repository of open content, with tools to support alignment to curricular standards and integration of local content



Seamless distribution of content and aggregation of usage data (via Internet, peer-to-peer, or USB drives)

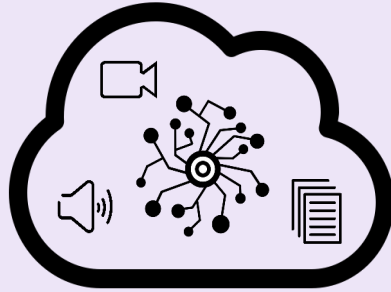


Capable of running on a wide variety of hardware (including legacy and low-cost devices)

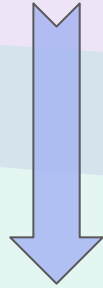


No Internet required; everything is stored and runs locally; even usable in areas off electrical grid

# Kolibri consists of two main software components

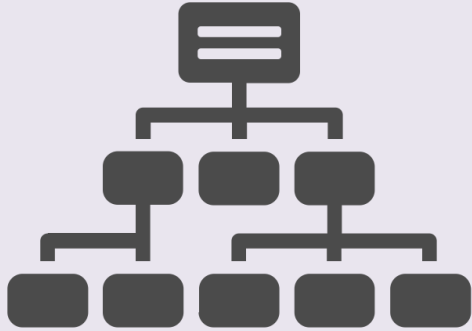


The **Kolibri Studio curriculum tool** is a central cloud server that aggregates content from many sources, organized into multiple content Channels.



The **Kolibri application** is installed onto a local device, and imports channels of content. Users can interact with Kolibri offline, directly from that device or from a nearby client device that is connected to it.

# Content in Kolibri is organized into “Channels”



A “channel” is a collection of content and metadata, organized into a “topic tree” structure

For example, the Khan Academy channel has 4 levels of nested topics:

*Domain > Subject > Topic > Tutorial*

(e.g. “Math” > “Arithmetic” > “Fractions” > “Comparing fractions”)

A channel aligned to a specific state curriculum might instead be structured as:

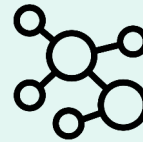
*Grade > Subject > Unit* (e.g. “Fifth Standard” > “Math” > “Unit 5”)



Some channels are **automatically created** and updated through our API, from external repositories such as Khan Academy or PhET



Other channels are **manually curated** through our web tools. Content can be imported from another channel or uploaded, and then drag-drop rearranged



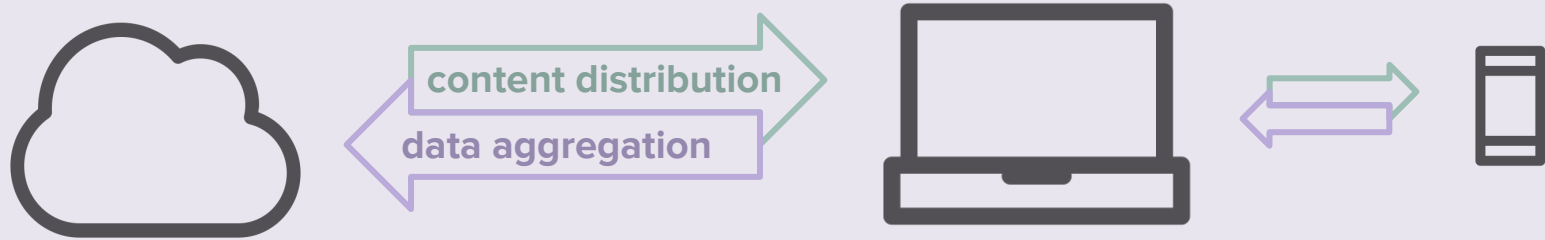
In addition to the topic tree structure, pieces of content can be marked as **related** to one another, **prerequisites** for one another, or **tagged** with labels.



Channels in the central repository can be either **unlisted or public**; for a channel to be featured publicly, it must meet community standards and be openly licensed

# Content distribution and data aggregation

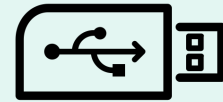
Designed to overcome the challenges faced in low-bandwidth and offline contexts, Kolibri facilitates **seamless content distribution** and **aggregation of usage data**.



Kolibri can opportunistically leverage any **Internet** connectivity that exists, to bring in updates and sync data back to a central server.

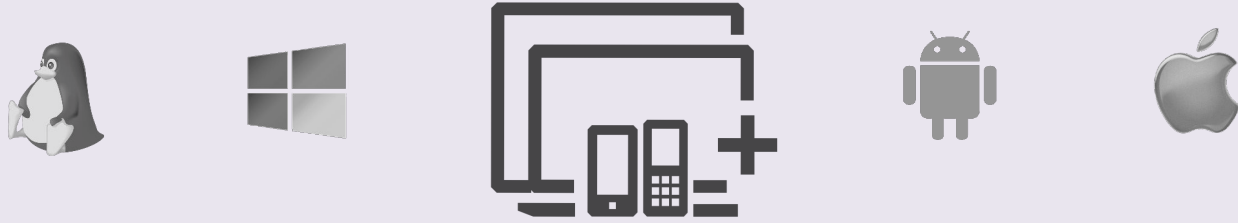


Nearby devices running Kolibri can connect **peer-to-peer**, over Wi-Fi or other local network, sharing content or syncing usage data.

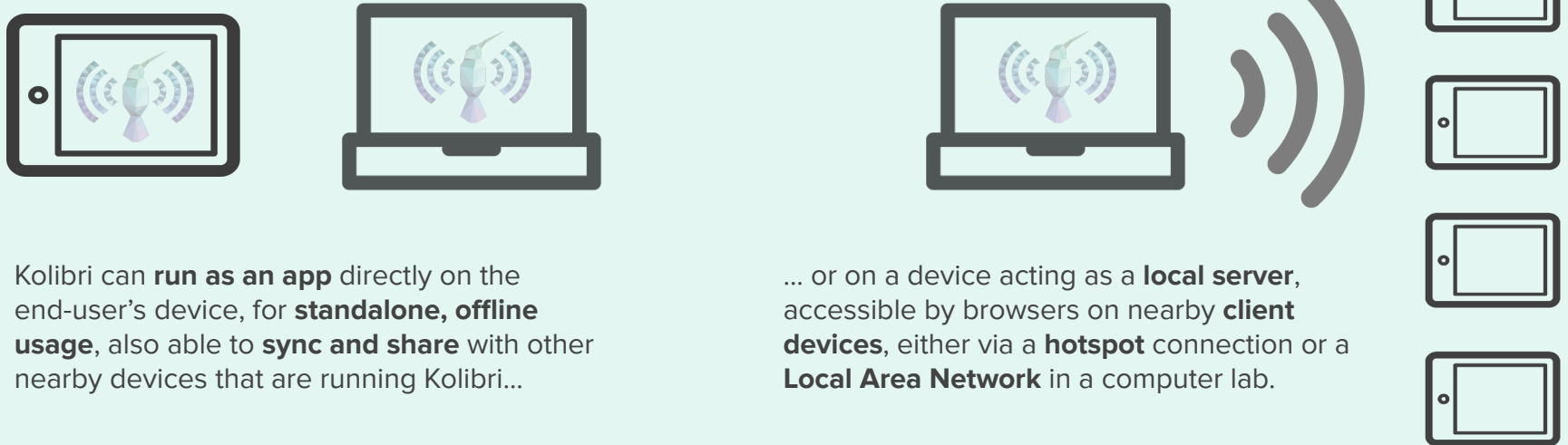


Content and usage data can be exported from Kolibri onto **portable USB storage** media, and then carried by foot and imported to other devices.

# Broad hardware and OS support

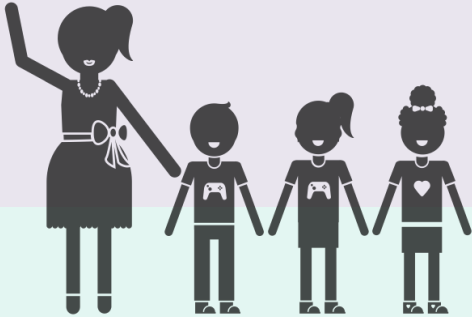


Kolibri runs on a wide variety of hardware, including **legacy** and **low-cost devices**.



# Kolibri supports innovative pedagogy

Designed to support teachers in helping students engage with content aligned to local curricular standards, Kolibri provides teachers with **just-in-time pedagogical guidance** while also allowing for students to **learn at their own pace**.



Kolibri provides an engaging and effective learning experience by fostering self-paced learning, interactivity, gamification, content recommendations, and instant feedback.



By using Kolibri, teachers are able to provide their students with access to locally relevant content that has been adapted and aligned to curricular standards.



Kolibri offers tools for understanding student progress, and provides real-time pedagogical recommendations. Actionable teacher tools bridge real world and digital instruction.





versus



Kolibri

- Content solely from Khan Academy, aligned to US standards
- No easy way to integrate new content sources
- No way for end users to adapt and align curricula to match local needs and standards
- All, or a subset, of KA content can be loaded onto a local installation of the server

- Ecosystem of public channels, aligned to multiple standards
- New content can be directly uploaded, or imported via API
- Web-based alignment tools enable curators to combine and rearrange content from multiple channels
- Any (or multiple) content channels can be loaded onto a local server running Kolibri, to enable local access



## Content Producers

Interested in increasing the reach and impact of your content? Kolibri can help.

[content@learningequality.org](mailto:content@learningequality.org)



## Educational NGOs

Want help increasing the impact of your programs by leveraging ed-tech solutions?

[implementations@learningequality.org](mailto:implementations@learningequality.org)



## Supporters / Sponsors

Enable us to continue building our education solutions and support their use around the world.

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