Universität Rostock Traditio et Innovatio

Umsetzung von offenen Lehr- und Lernmaterialien (Open Educational Resources) mit Hilfe des Jupyter Ökosystems

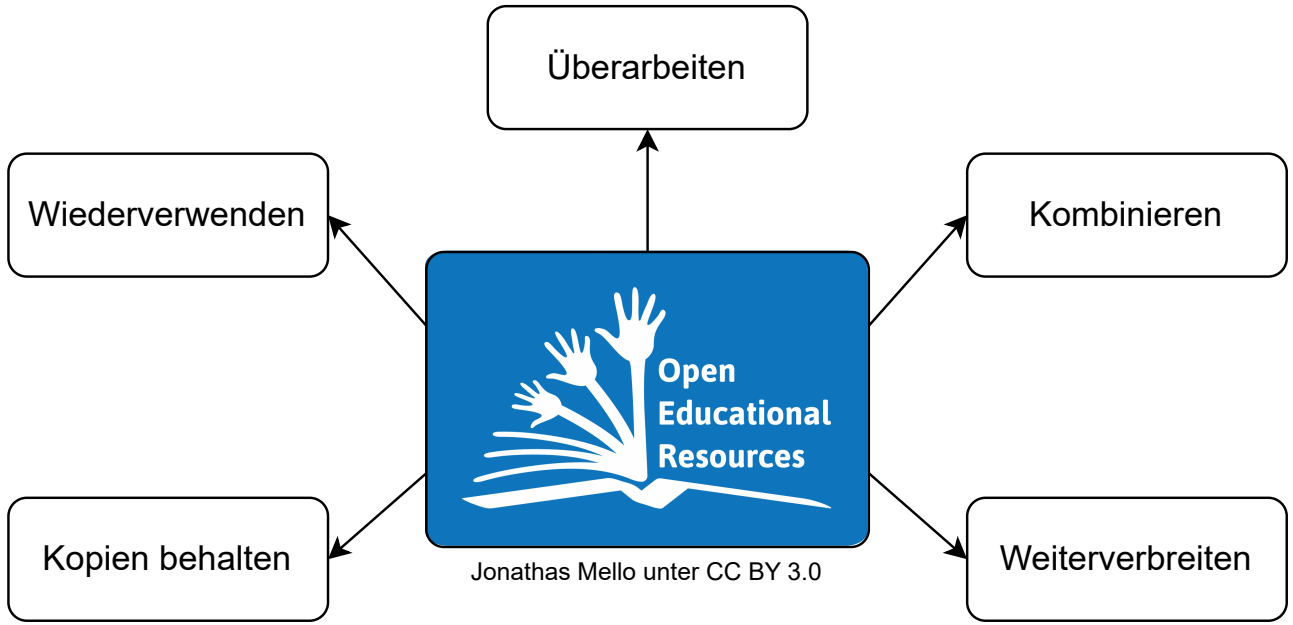
Referent: Johannes Otto

Open Educational Resources

Freie Lehr- und Lerninhalte, kostenlos veröffentlicht unter offener Lizenz (Creative Commons, GNU, Apache 2.0, MIT, ...)

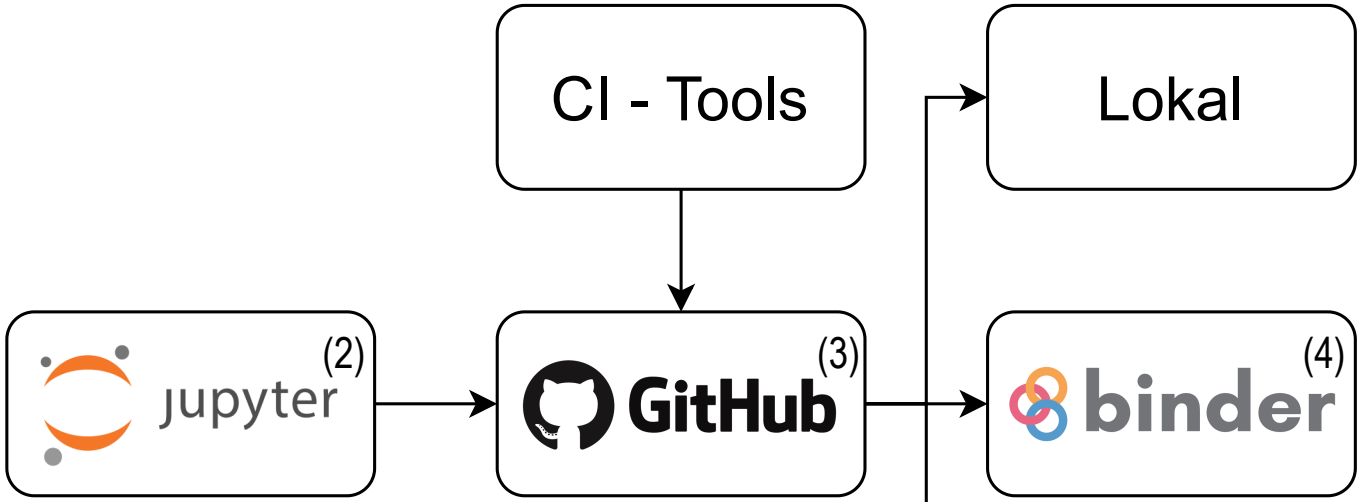
-> freier Zugang zu hochqualitativen Lerninhalten

-> Ausgleichen von Unterschieden in der Zugänglichkeit von Bildung

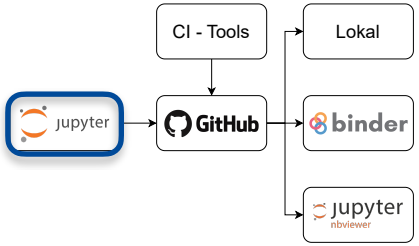


(1) Wiley and Hilton, Defining OER-enabled pedagogy

Jupyter Ökosystem



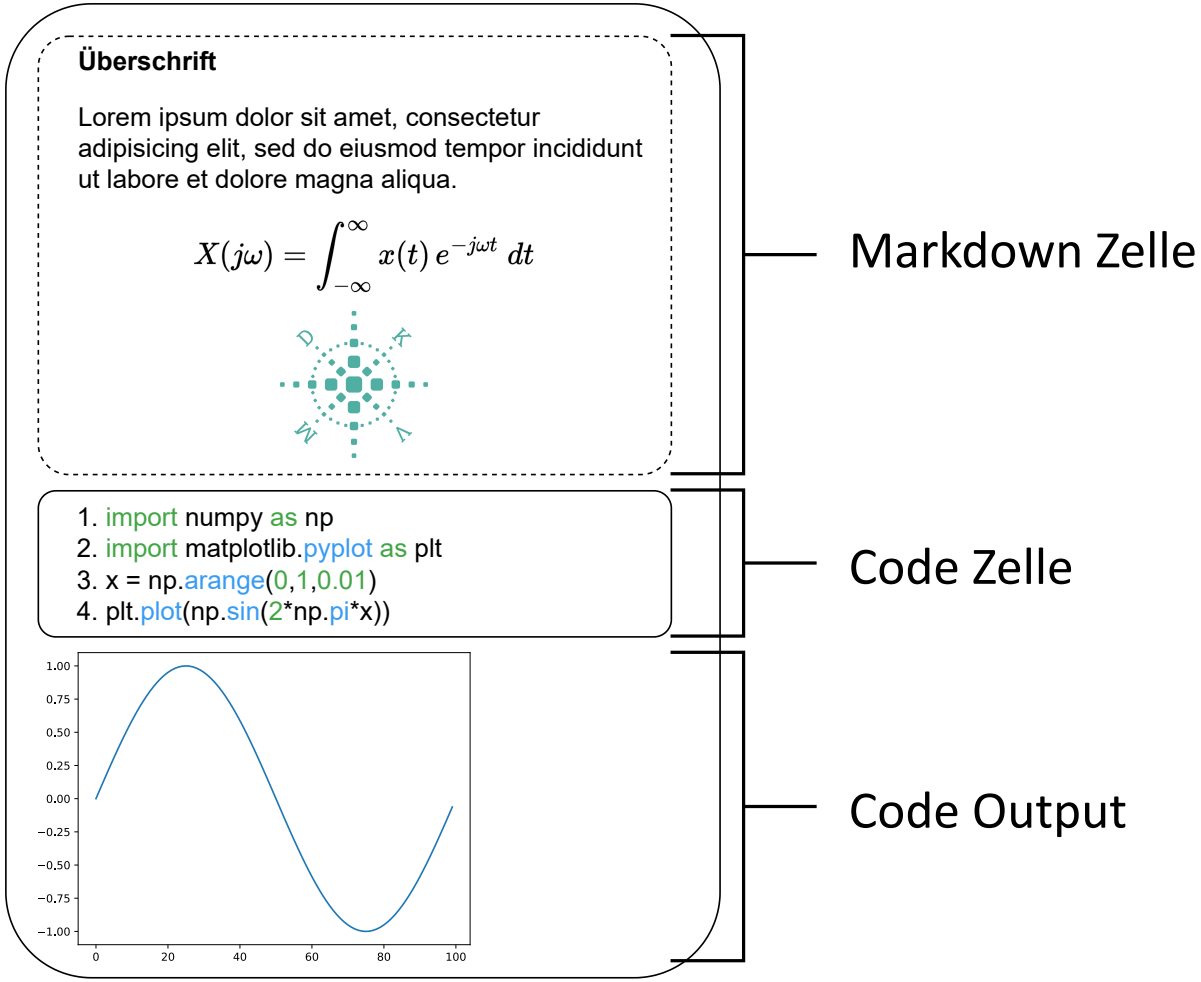
(2)https://jupyter.org
(3)https://github.com
(4)https://mybinder.org
(5)https://nbviewer.jupyter.org

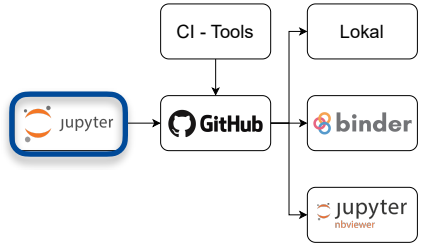


Jupyter Notebook

(1)

(2)https://jupyter.org



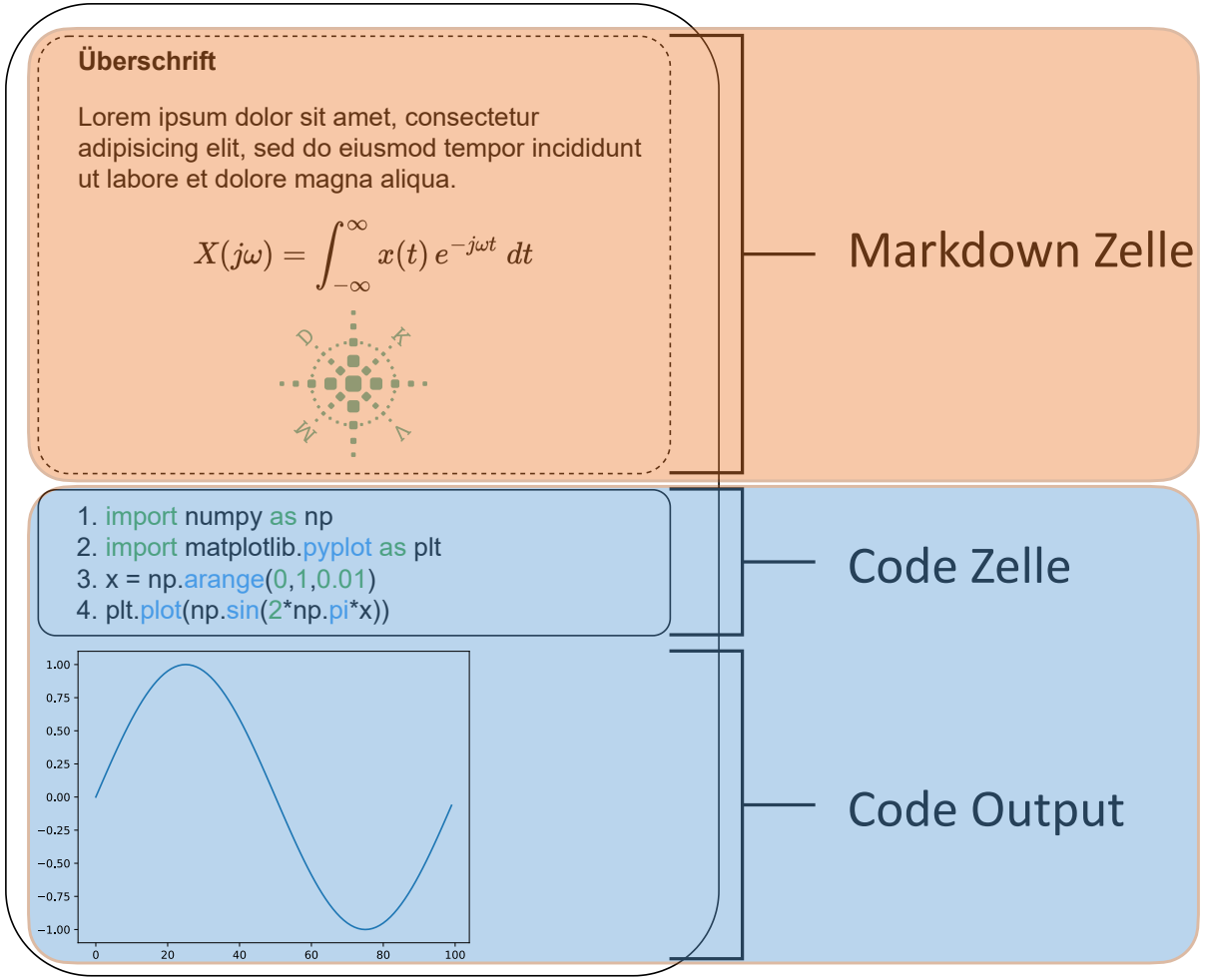


Offene Lizenzierung

(1)

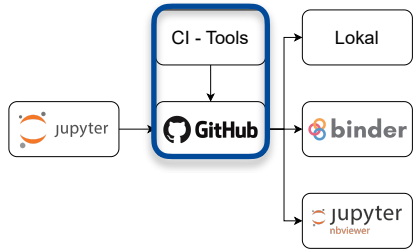
(5)

(2)https://jupyter.org
(6)https://creativecommons.org/licenses/by/4.0
(7) https://opensource.org/licenses/MIT

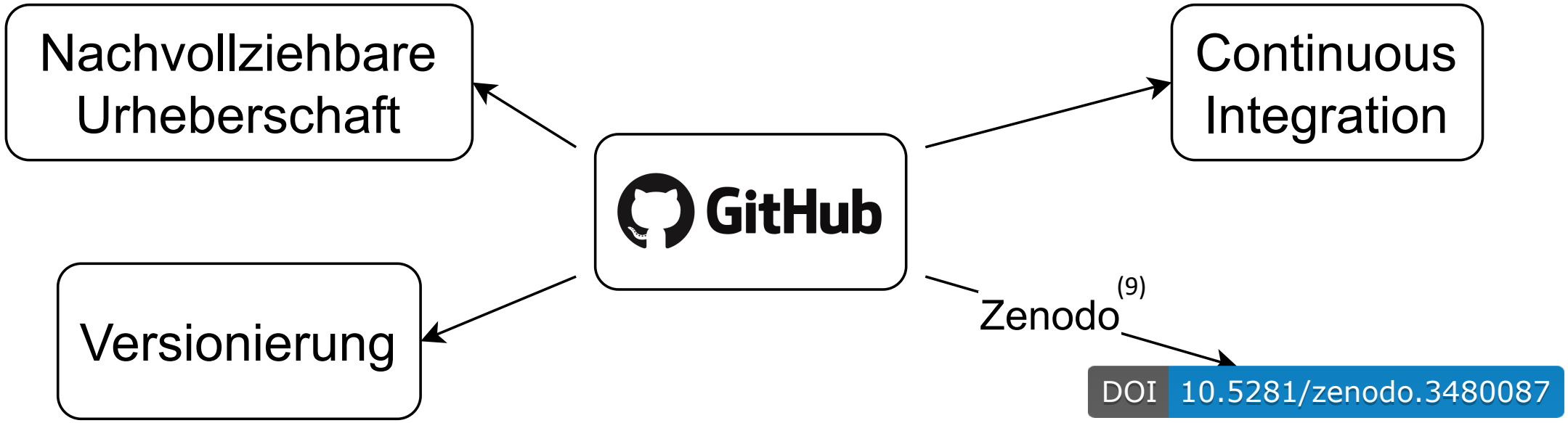


Creative Commons (CC BY)(6) für Text und Bilder

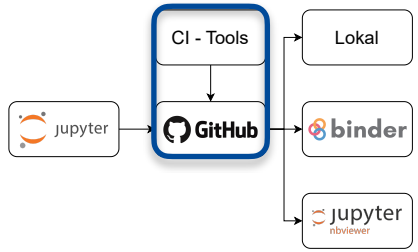
MIT Lizenz(7) für Code



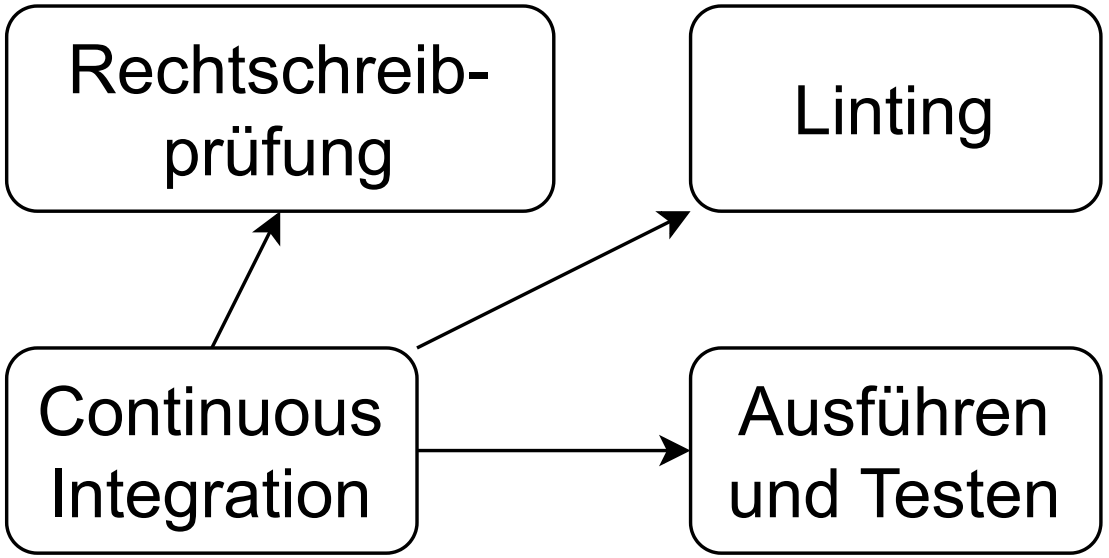
Veröffentlichung



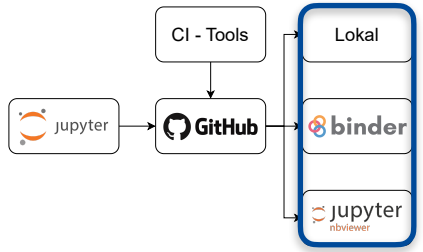
(9)https://zenodo.org



Continuous Integration



Automatisierte Ausführung bei jeder Revision
über GitHub Actions



Nutzung

Lokal

Bearbeiten, Weiterentwickeln und Exportieren(8)

(4) binder

(5) jupyter nbviewer

Interaktive Nutzung

Statisches Betrachten

(4)https://mybinder.org
(5)https://nbviewer.jupyter.org
(8)https://github.com/spatialaudio/nbsphinx

Quellen und Links

(1) Wiley, David, and John Levi Hilton Iii. "Defining OER-enabled pedagogy." *The International Review of Research in Open and Distributed Learning* 19.4 (2018).
(2) https://jupyter.org
(3) https://github.com
(4) https://mybinder.org
(5) https://nbviewer.jupyter.org
(6) https://creativecommons.org/licenses/by/4.0
(7) https://opensource.org/licenses/MIT
(8) https://github.com/spatialaudio/nbsphinx
(9) https://zenodo.org
(10) Spors, Sascha, et al. "Concept and Realization of Open Educational Resources using Jupyter."
(11) https://github.com/spatialaudio/digital-signal-processing-lecture