

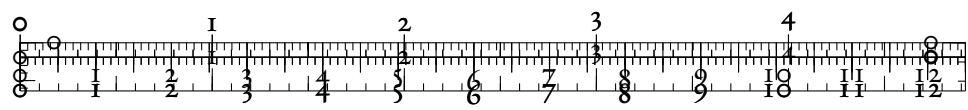
A Collaborative Visual Database

by

Imed Adel

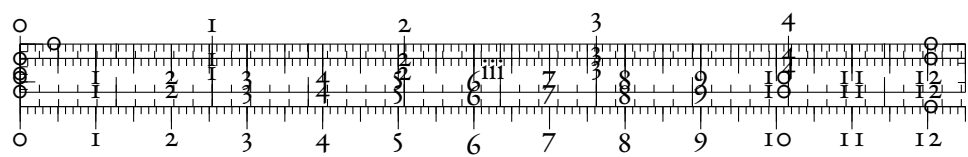
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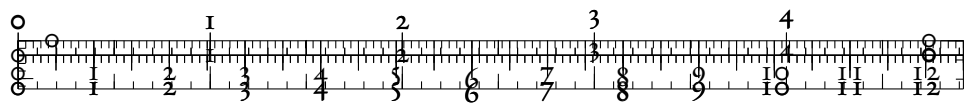
2020–2021



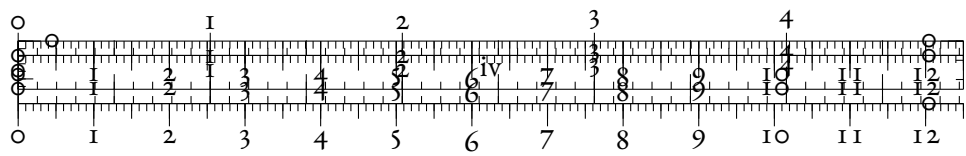
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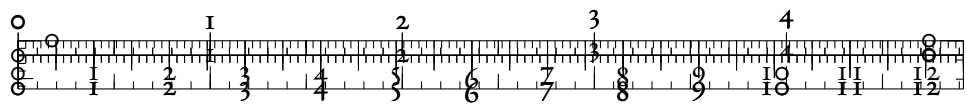
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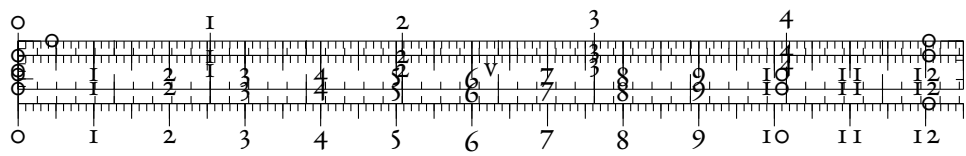


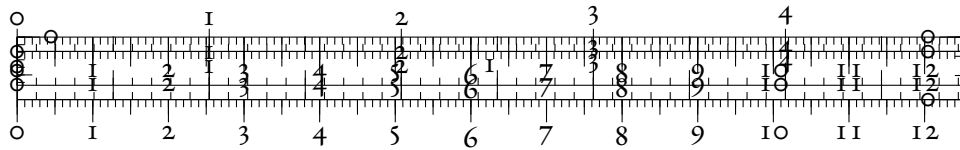
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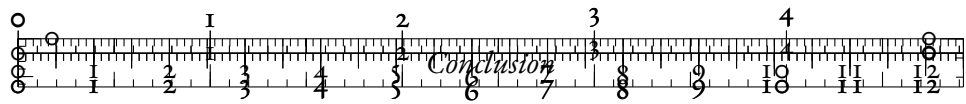




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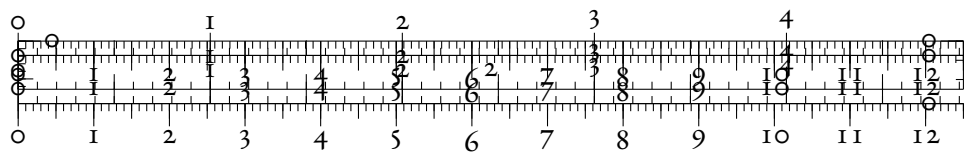


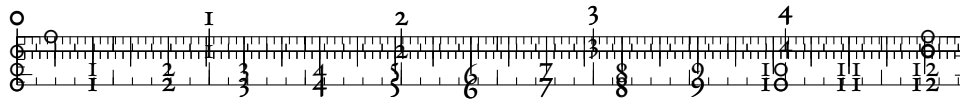




No application is ever complete, but we hope that within these three months we were able to create a disruptive solution that would fix one broken part of the internet.

We also hope that this project and this work sets the example for what is possible with the modern web, within a limited timeframe, a single laptop, and an idea.





Acronyms

CmRDT Commutative Replicated Data Type

CMS Content Management Software

CRDT Conflict-free Replicated Data Type

CvRDT Convergent Replicated Data Type

DOM Document Object Model

FDD Feature-Driven Development

GPU Graphics Processing Unit

JSON JavaScript Object Notation

MVC Model-View-Controller

MVVM Model-View-ViewModel

OT Operational Transformation

OTP One-Time Password

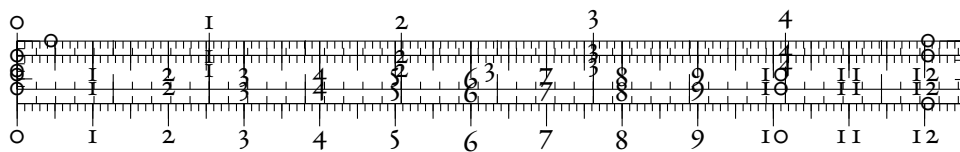
P2P Peer-To-Peer

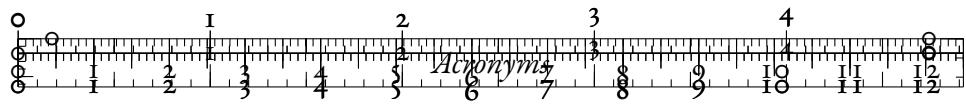
RBAC Role-Based Access Control

RDMBS Relational Database Management System

SaaS Software as a Service

SDK Software Development Kit





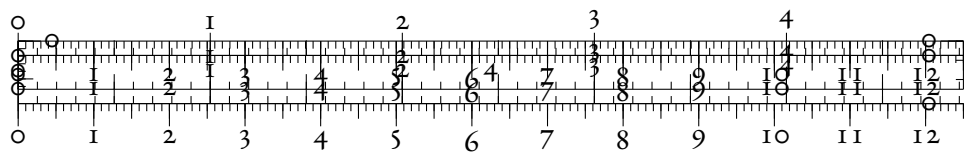
SSPL Server Side Public License

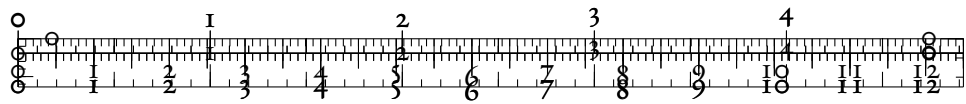
UI User Interface

UX User Experience

WAI-ARIA Web Accessibility Initiative – Accessible Rich Internet Applications

WOOT WithOut Operational Transformation

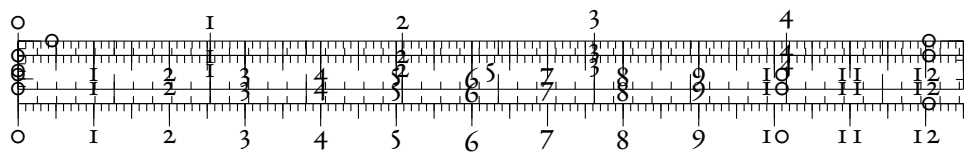


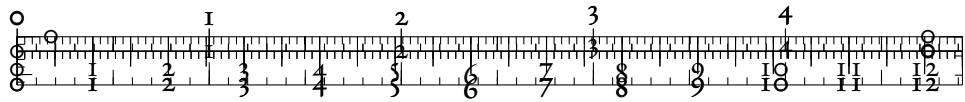


Glossary

cacheable A cacheable response is an HTTP response that is stored to be retrieved and used later, saving a new request to the server [1].

polyfill A piece of code used to provide modern functionality on older browsers that do not natively support it [2].





Bibliography

- [1] *Cacheable - MDN Web Docs Glossary: Definitions of Web-related terms* | MDN. en-US. URL: <https://developer.mozilla.org/en-US/docs/Glossary/cacheable> (visited on 06/07/2021).
- [2] *Polyfill - MDN Web Docs Glossary: Definitions of Web-related terms* | MDN. en-US. URL: <https://developer.mozilla.org/en-US/docs/Glossary/Polyfill> (visited on 06/07/2021).

