



EaaS

Emulation in Action

Applying EaaS for Research and Study
Coalition for Networked Information
Fall Meeting 2020

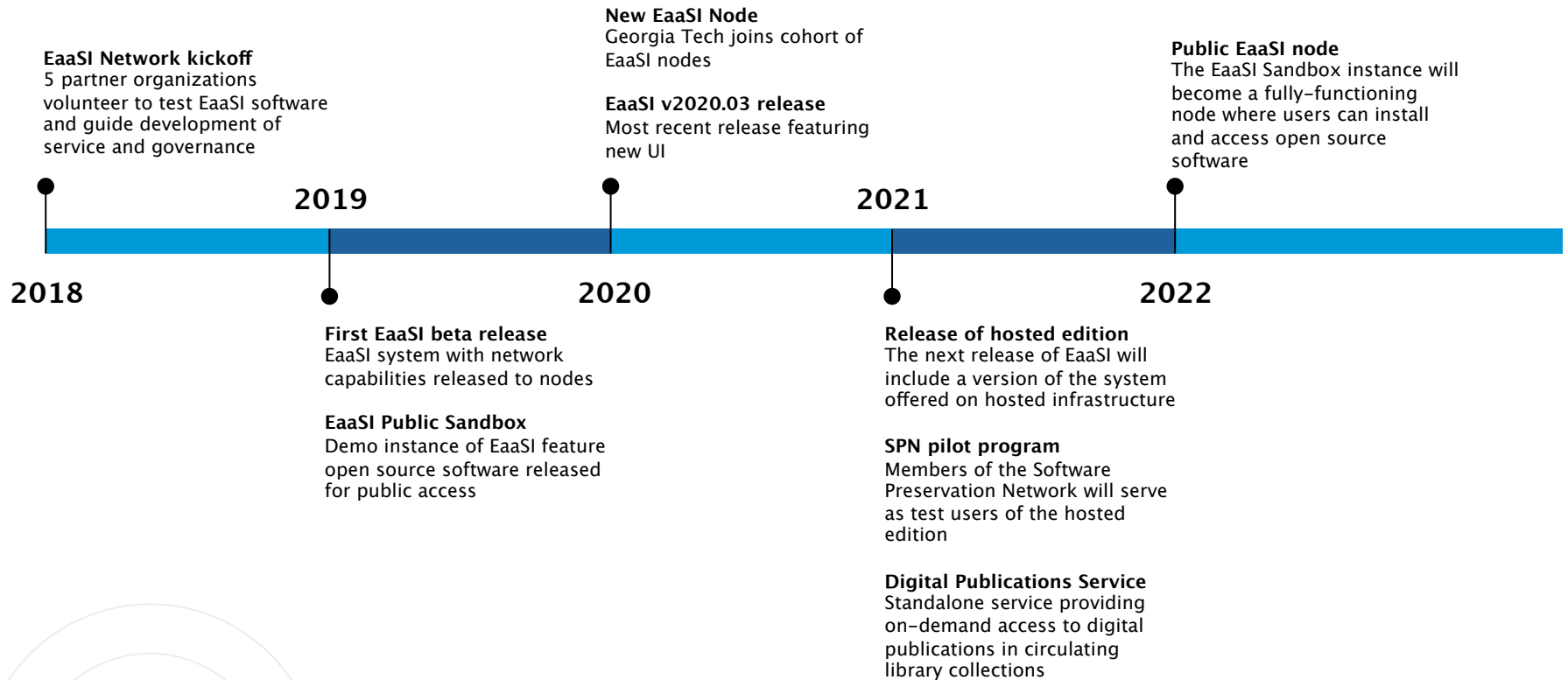
Yale

The image features a dark blue background with a bokeh effect of lighter blue circles. Two white concentric circles are centered on the page. The text 'EaaS' is centered within the inner circle, with the 'S' having a blue vertical bar on its right side.

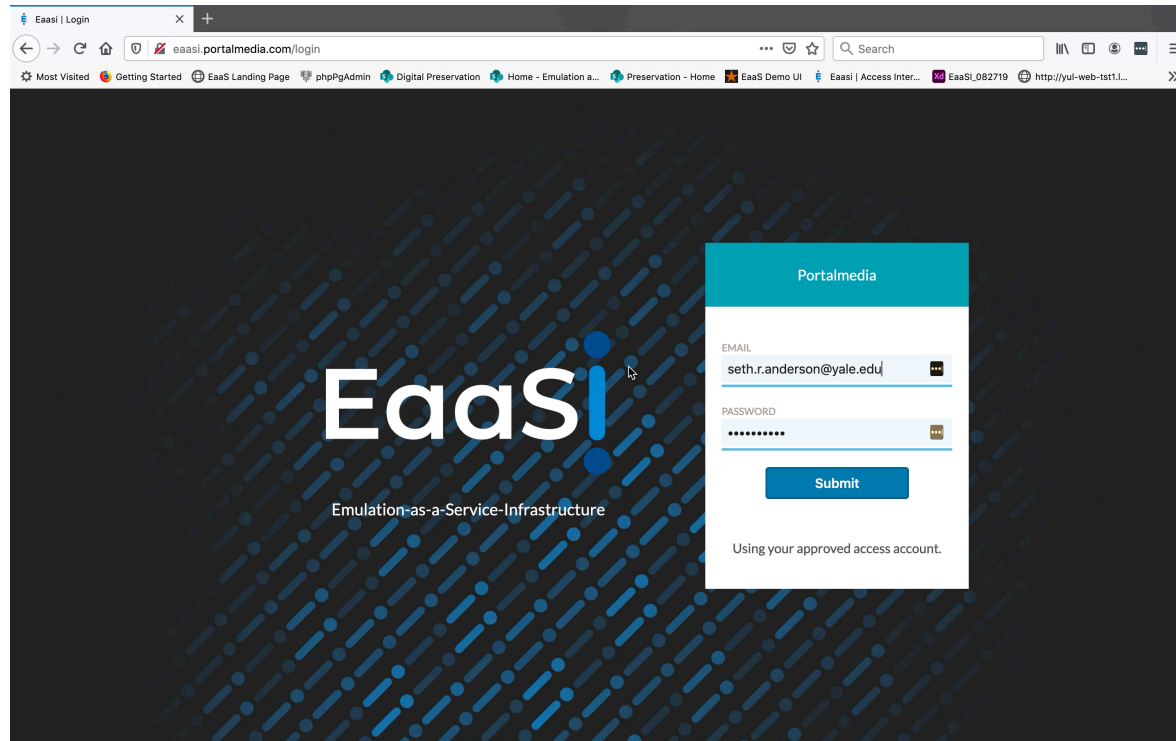
EaaS



EaaS provides technology and services for the application of software emulation across a diverse spectrum of professional disciplines, organizations, and individual use cases.



EaaS Program Timeline



EaaS User Interface

Phase 2

July 2020 – June 2022

Development

- Android emulation
- Computer networks
- Automation features
- User management improvement
- Metadata model implementation

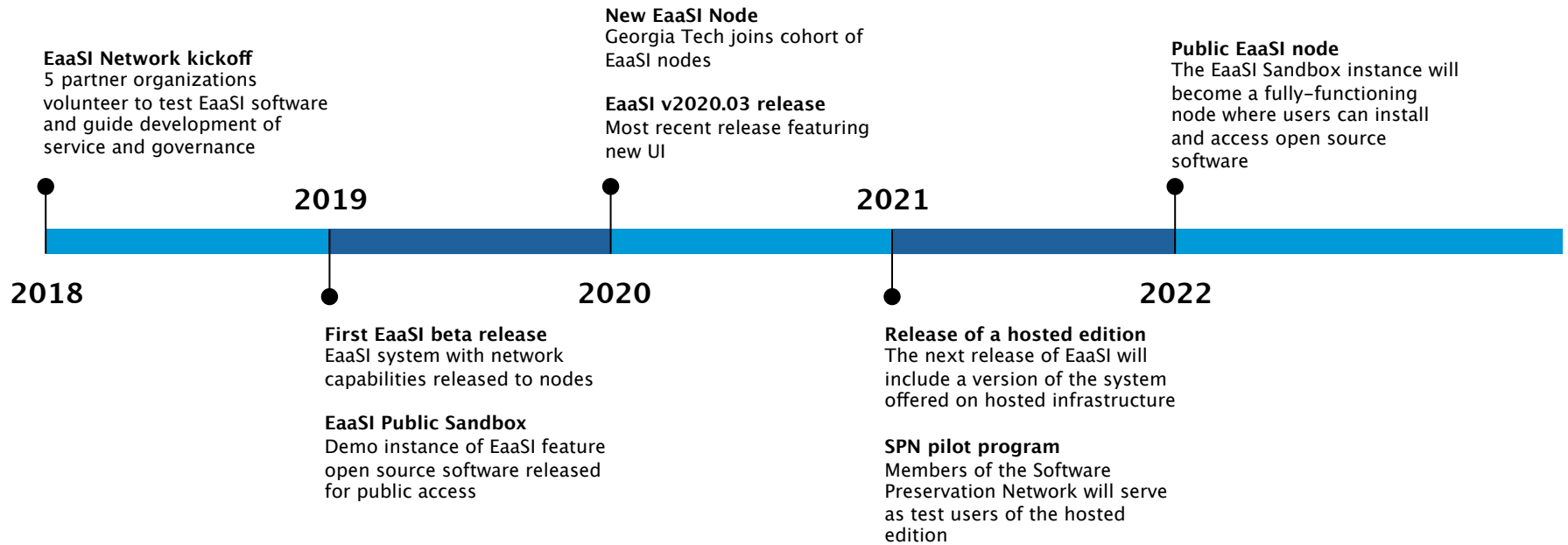
Support

- Improved support services
- User forum
- Routine system maintenance
- New training modules

Community

- SPN pilot program
- Service model and organizational infrastructure
- Regular publication of case studies, blog posts, and demos



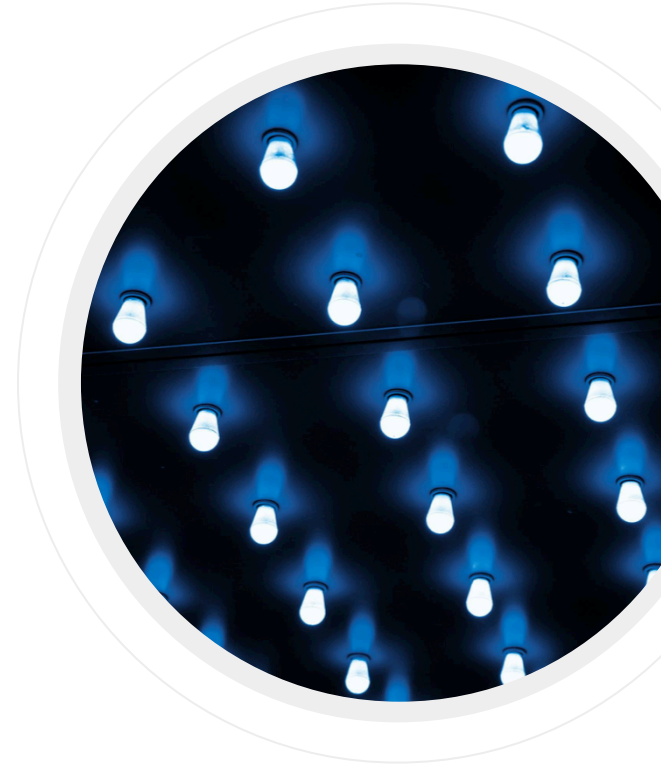


EaaS Program Timeline



Demos

1. YUL Emulation Viewer
2. Universal Virtual Interactor (UVI)
3. Emulated Computer Networks



QuickTime Player File Edit View Window Help CD-ROM_Eas5_Master_2018-09-30

Home Insert Page Layout Formulas Data Review View Developer

Callibri (Body) 12 A A A Wrap Text Number

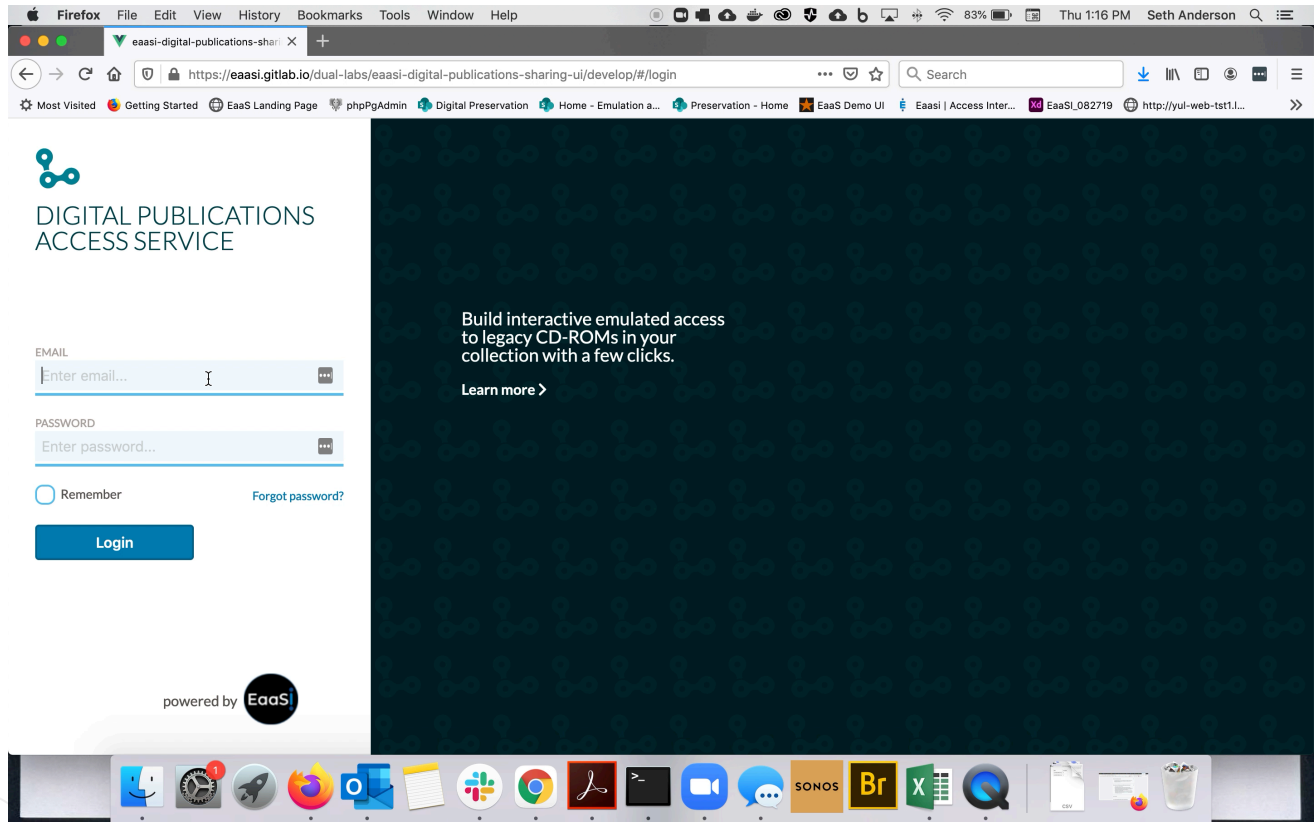
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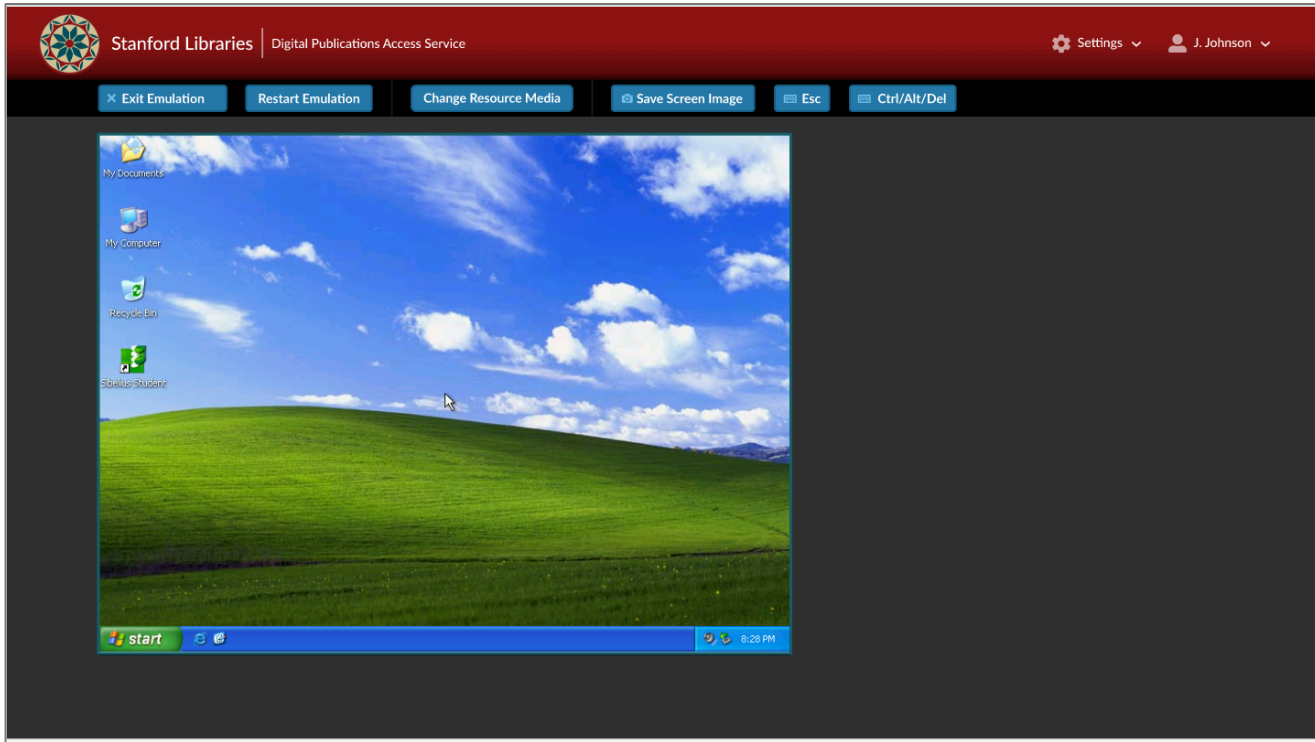
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1							39002057311541	4631511 N	DU88.1	HC5023191	144 p. :	[20] folded leaves of am					Ships of Abel Tasman /	lsf	CD-ROM	Ships of Abel Tasm			10-28-15	Fernan
3							39002056190060	4210050 N	HE 20.712	4585244	2	computer user guide [computer mm					NIOSH criteria documents plus CD-R	lsfcdg	CD-ROM	Niosh Criteria Docu			10-14-15	Brian C
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5							39002055645037	7437826 N	SD608.01	7955346	1	computer laser opte [electronic mm					Oak wilt image library	lsfces	CD-ROM	Oak Wilt Image Lib			10-26-15	Brian C
6							39002067184334	3840458 N	H45.108	W192420	1	computer laser opte [computer mm					Waterfowl management handbook	lsfcdg	CD-ROM	Waterfowl Manage			10-14-15	Brian C
7							39002072965479	6733824 N	HT1049	N732647	2	1 CD-ROM (4 3/4 in.) am					Final victims : foreign slave trade to	lsf	CD-ROM	Final victims : forel			11-19-15	Gaurav
8							3900201049842	6995001 N	RC394	Q37561191	xvi, 313 p. 1	CD-ROM (4 3/4 in.) am					Biomaging in neurodegeneration /	lsfmed	CD-ROM	Biomaging in neuro			11/03/15	Fernan
9							39002041993529	4506723 N	QA76.76	C4894240	xix, 568 p. 1	computer optica di am					Unix shell programming tools /	lsfmed	CD-ROM	Unix shell program			12-16-15	Fernan
10							39002059645052	7437893 N	SD112	N37955372	1	computer optica di [electronic mm					Twenty-eighth annual National India	lsfces	CD-ROM	Twenty-eighth ann			11/09/15	Fernan
11							39002073437064	4313981 N	DQ279.64	4698470	1	computer optica di [computer mm					Transylvania an interactive picture	Cl sf	CD-ROM	Transylvania D. O.			02-15-15	Brian C
12							39002076606962	9101399 N	E185.5 A2	4271618	1	computer laser opte [computer ms					African-American newspapers the 15	lsf	CD-ROM	African-American n			10-19-15	Fernan
13							39002038576568	9101399 N	E185.5 A2	4271618	1	computer laser opte [computer ms					African-American newspapers the 15	lsf	CD-ROM	African-American n			10-19-15	Fernan
14							39002060322899	4132009 N	NAS 1.866	4502605	1	computer laser opte [computer ms					CCSDS recommendations and reports	lsfcdg	CD-ROM	CCSDS Consultative			10-13-15	Fernan
15							39002068059683	4132009 N	NAS 1.866	4502605	1	computer laser opte [computer ms					CCSDS recommendations and reports	lsfcdg	CD-ROM	CCSDS Consultative			10-14-15	Brian C
16							39002060322881	4132009 N	NAS 1.866	4502605	1	computer laser opte [computer ms					CCSDS recommendations and reports	lsfcdg	CD-ROM	CCSDS Consultative			10-14-15	Fernan
17							39002060322907	4132009 N	NAS 1.866	4502605	1	computer laser opte [computer ms					CCSDS recommendations and reports	lsfcdg	CD-ROM	CCSDS Consultative			10-15-15	Fernan
18							39002063923164	6988990 N	C13.M2	15781034	1	CD-ROM : [electronic mm					Mapping census 2000 the geography	lsfcdg	CD-ROM	Mapping census 200			02/12/16	Fernan
19							39002065059462	6235693 N	PQ4201	L7040883	1	computer reference [electronic mm					Letturatura italiana Zanichelli	CD-RO lsf	CD-ROM	Letturatura italiana				
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21							39002067184169	4209375 N	127.81.R	4584507	1	computer laser opte [computer mm					Vanishing river the Lower Verde Arcl	lsfcdg	CD-ROM	Vanishing river the			10-15-15	Fernan
22							39002067754508	4604898 N	E178.1 A4	4995815	xxvii, 1160 with CD. am					American history : a survey /	lsf	CD-ROM	Interactive Study G			11-20-15	Hannah	
23							39002067754540	4061257 N	E468 C28	7428511	iv, 630 p. 1	computer laser opte am					American heritage new history of the	lsf	CD-ROM	American heritage			10-29-15	Gaurav
24							39002078616099	7399352 N	DT515.77	7919305	xii, 246 p. 1	CD-ROM (col. : 4 3/4 in					Facts and the legend of Al-Hajj Jimo	lsf	CD-ROM	Facts & Legend of			10-30-15	Hannah
25							3900205736507	7186521 N	Yn272	2007751437	123 p. :	am					Art in nature : the Clark inside and ou	lsfmssr	DVD	Art in nature : the			10-29-15	Gaurav
26							39002011282060	4005697 N	QC1 L42	4370580	xii, 361 p. 1	computer laser opte am					Disks and outflows young stars	lsfcdg	CD-ROM	Disks and outflows			10-27-15	Gaurav
27							39002012264664	7124839 N	QH41.15	7666311	xiii, 330 p. 1	CD-ROM (4 3/4 in.) am					Landscape simulation modeling : a	lsfslf	CD-ROM	Landscape simulati			11/10/15	Fernan
28							39002037723575	4401620 N	QA76.64	47882023	xix, 488 p. 1	computer laser opte am					Objects on the Web : designing, buil	lsfcdg	CD-ROM	Objects on the Web			12-16-15	Fernan
29							39002050485125	9796104 N	NA1581.7	10104164	385 p. :	1 CD-ROM (4 3/4 in.) am					Egypt visual sourcebook : for artists,	lsfnea	CD-ROM	Egypt visual source				
30							39002050717306	4556622 N	Yn572	200494567	1	computer laser opte [electronic mm					Perseus 2.0 interactive sources and	lsfmssr	CD-ROM	Perseus 2.0 interac			10-13-15	Fernan
31							39002050717298	4556622 N	DF77	NA64945675	1	computer laser opte [electronic mm					Perseus 2.0 interactive sources and	lsf	CD-ROM	Perseus 2.0 interac			10-21-15	Fernan
32	CD 1-3						39002050717314	4556582 N	Yn572	200494567	4	computer 1 installat [electronic mm					Perseus 2.0 interactive sources and	lsfmssr	CD-ROM	Perseus 2.0 interac			10-13-15	Fernan
33							39002077668078	4556582 N	Yn572	200494567	4	computer 1 installat [electronic mm					Perseus 2.0 interactive sources and	lsfmssr	CD-ROM	Perseus 2.0 interac			10-13-15	Fernan
34							39002077668078	4556582 N	Yn572	200494567	4	computer 1 installat [electronic mm					Perseus 2.0 interactive sources and	lsfmssr	CD-ROM	Perseus 2.0 interac			10-13-15	Fernan
35							39002077668094	4556582 N	Yn572	200494567	4	computer 1 installat [electronic mm					Perseus 2.0 interactive sources and	lsfmssr	CD-ROM	Perseus 2.0 interac			10-13-15	Fernan

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Select destination and press ENTER or choose Paste

100%






Digital Publications Service – Access Page



Universal Virtual Interactor

Environments 

Software

Objects

UVI

Networks

Import Environment

Create Environment

Import Container

OAI PMH

Settings

Emulators


Build: 737A80CA8B
UI Build: 0140F83942









UVI

Object upload

Upload a file to render: GerberGreenLarimer_APSR_2008.do

Use writeable media (supports data export)

Upload additional files 

- GerberGreenLarimer_APSR_2008_social_pressure.dta 
- GerberGreenLarimer_APSR_2008_social_pressure_household_level_stata_output.dta 
- gerbergreenlarimer_apr_2008_social_pressure_household_level_stata_output.csv 
- GerberGreenLarimer_APSR_2008.log 
- GerberGreenLarimer_APSR_2008.R 
- GerberGreenLarimer_APSR_2008_r_output.txt 
- GerberGreenLarimer_APSR_2008_social_pressure.csv 
- 15d48af8-e38e-4dd0-ace9-62f90826963a.ddi32.xml 

OSF Resources

Search OSF By Title

CREATE NEW PROJECT

- Investigating Emulation as a Service for Reproducible Research at Yale
- EaaSI (Emulation as a Service Infrastructure)
- Hackathon 1: Reading the Matrix. A Hackathon linking digital forensics to user access
- Towards a Universal Virtual Interactor (UVI)
- osfstorage

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Available Connections



Towards a Universal Virtual Interactor (UVI)

DOWNLOAD UPLOAD TRANSFER OUT SERVICES

Resource Details

Kind
container

Id
azewj

Title
Towards a Universal Virtual Interactor (UVI)

Date Modified
2019-12-10T19:24:53.171047

Extra
category: fork: false
current_user_is_contributor: true
preprint: false
current_user_permissions: ["read"]
custom_citation: null
collection: false
public: true
subjects: []
registration: false
current_user_can_comment: true
wiki_enabled: true
node_license: ["copyright_holders": [""], "year": "2019"]
tags: []
size: null

EAASI
KEYWORD ENHANCEMENT
FAIRSHARE

project

Identifier
10.17605/OSF.IO/AZEWJ

Date Created
2019-09-20T15:24:03.240127

Hashes
md5: null
sha256: null



Development Partners



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CREATE NEW PROJECT

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< 1 >

Towards a Universal Virtual Interactor (UVI)

DOWNLOAD UPLOAD TRANSFER OUT EAAAI

EaaSI Service

1 Submit Proposal

Send the contents of Towards a Universal Virtual Interactor (UVI) to EaaSI. They will prepare the contents and return an image that can be run as an emulator.

SEND

2 Results

```
public: true
subjects: []
registration: false
current_user_can_comment: true
wiki_enabled: true
node_license: ('copyright_holders': ['1', 'year': '2019'])
tags: []
size: null
```

Available Connections



Development Partners



Pre-release

v1.9-demo-1

a04aebc

Compare

Wikidata playable demo 1.0

 **ross-spencer** released this on Jun 22 · [22 commits](#) to master since this release

An initial release of the Yale University Library Wikidata integration for Siegfried.

The documentation that was originally here has now been replaced with the official [Wikidata integration](#) documentation.

Work that was still in progress at this stage:

- Auditing Wikidata sources and updating Wikidata models.
- Provenance for container files.
- Lang flag doesn't yet work, i.e. `./roy harvest -wikidata -lang DE`.
- Additional testing verifying the efficacy of the Wikidata integration.
- And more!

You would be better served to use the official stable Wikidata integration release, at time of writing is [1.9.1](#).



Change media



Save



Detach



Restart



Stop



Screenshot



Keyboard

Switch View



Esc



Ctrl-Alt-Del

A Very Special Thanks to our Funders...



THE
ANDREW W.
MELLON
FOUNDATION



Alfred P. Sloan
FOUNDATION



Thanks!

eaasi@yale.edu

softwarepreservationnetwork.org/emulation-as-a-service-infrastructure/

#eaasi on Twitter