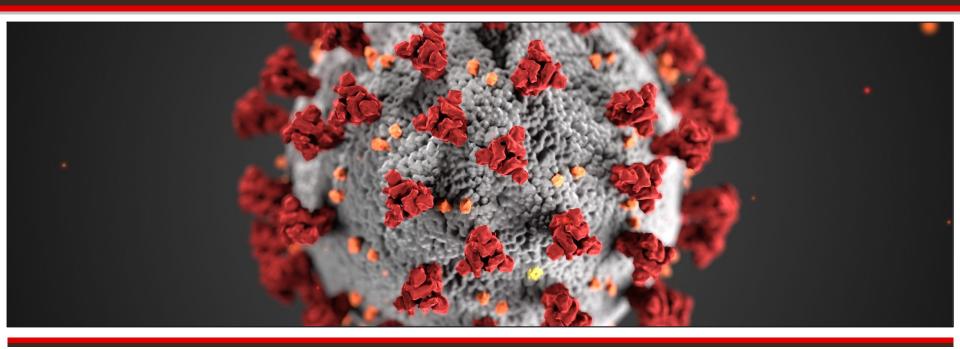
Digital Lending During a Pandemic: A Dual Approach to Secure Document Delivery on a Deadline

Brown University Library Digital Technologies

December 3, 2020

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The world changed, but the academic show must go on...



How to get materials to faculty, researchers, and students?



HathiTrust ETAS



- Quickly implemented at Brown
- Time-bound*
- Hit-or-miss selection based on holdings



^{*}It was our understanding that ETAS access was permitted until we resumed our physical circulation operations, which was in July.

Market Options?

- Adobe Content Server
 - Cost per use
 - Hosted vs. self-hosting
 - Known problematic UX
- Readium
- EditionGuard
- ReShare











Lightbulb Moment - Virtru



- Merits
 - Already in production
 - Secure
 - Easy-to-use, for staff and patrons
 - Time-based controls and remote kill-switch

- Demerits
 - Files not reassignable*
 - Security prevents accessibility
 - Scalability challenges
 - No self-service option
 - 150MB file size limit

^{*}Brown's license does not include Virtru for Google Drive, so each file transfer is a new instance, facilitated by staff. We could reuse the file, but not simply reassign the existing Virtru version of the file.



The Princeton Model*

- Physical items are checked out to a CDL users in ILS and put on hold shelf through semester.
- Items are scanned and ingested into Samvera repository
- Catalog listing includes login to allow for limited checkout
- Items presented in a IIIF viewer, with 3 hour timer, and 10 minute countdown to expiration

^{*}Our sincere thanks to Jon Stroop, Esmé Cowles, and Kate Lynch at Princeton who to time to share the work they've done with our team at Brown..

The Princeton Model

- If copies are checked out, *Reserve* option presented instead of login, with an email notification when item is available.
- Once notified, a user has 1 hour to access the file.
- Downloading is disabled in viewer.
- Multiple copies are determined by a query to the ILS to see how many copies are checked out to CDL user.



The Brown Variation

- Focus on course reserves
- PDF > IIIF for a better reading experience
- Accessibility support required
- Not a part of the repository or catalog
- 2 ½ weeks until undergraduate courses begin



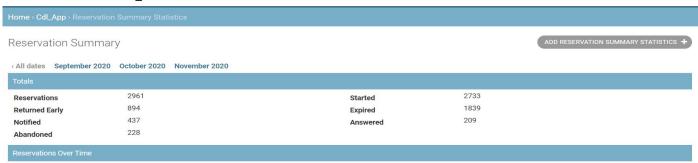
The Brown Variation – Tech Overview

- Backend Python/Django
 - Upload/register Items (PDFs)
 - Manage Sessions and Timers
 - Notify Holds
- Middle (Item Processing) Go
 - Small binary to selectively corrupt the PDFs
- Frontend Standard HTML and Javascript
 - PDF.js with code to undo selected corruption
 - Countdown timer that will reload the page



Statistics

- Virtru: 231 document requests fulfilled since July 2020
- CDL: 650 items available, 2.7K sessions started, 400 holds requested, since September 16





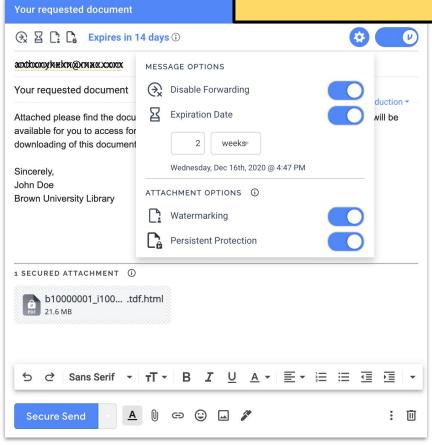


Demos

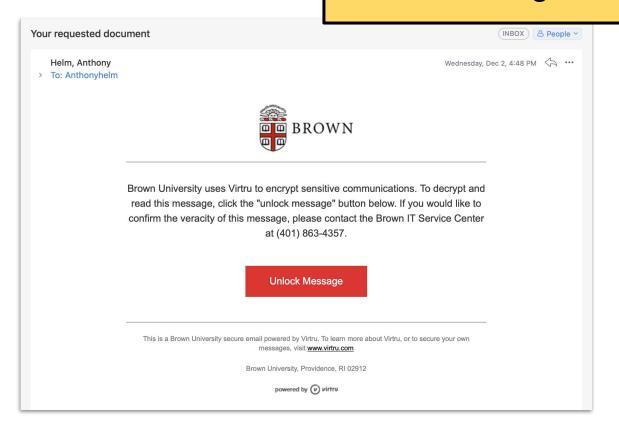
- Virtru
- CDL App



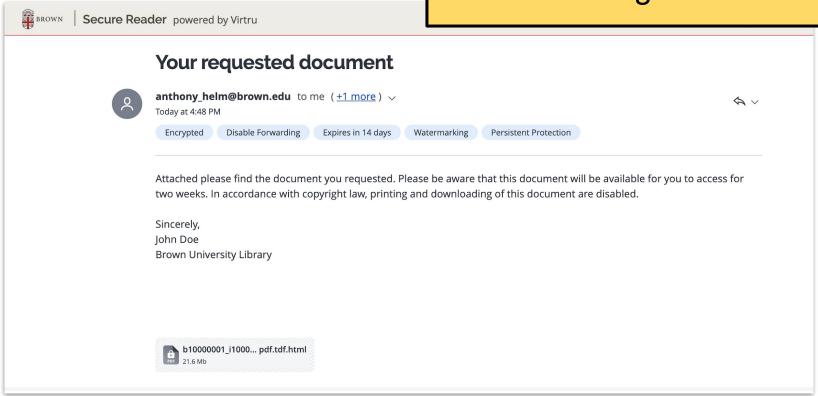
Virtru - Security Options



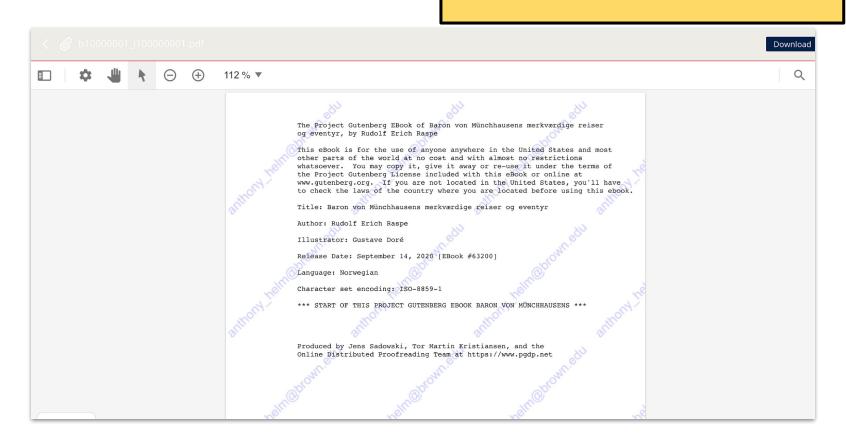
Virtru - Message Received



Virtru - Message Unlocked

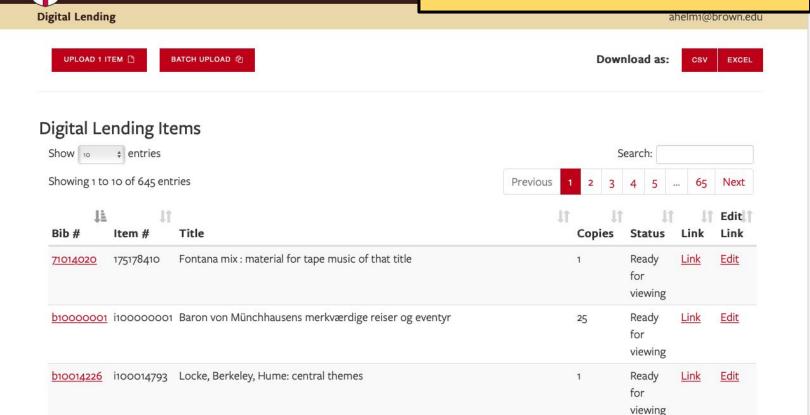


Virtru - PDF Viewer





Staff View - CDL System





Staff View - CDL System

Digital Lending ahelm1@brown.edu

Edit Item b10000001_i100000001

Bib id* b10000001	Item id* i100000001
Item file*	
Currently: <u>b10000001_i1000000</u>	_mQosOJS.pdf
Change:	
Choose File no file selected	
Number of copies to lend	
25	
	ner copies of this text that you are reserving for CDL, so you don't need to make duplicate scans or upload the fi
more than once.	
Title Baron von Münchhausens	Author Rudolf Erich Raspe



Student View - Reserves System

OCRA Course Reserves Student Interface

ENGL 1761F S01: Toni Morrison

Fall, 2020, Aliyyah Abdur-Rahman

Issue with PDFs in Chrome: If you encounter an issue with downloading PDFs in Chrome, please see a workaround here.

Online Readings			
Sequence	Date Due	Citation	E-Reserve
		Toni Morrison. <i>Playing in the dark : whiteness and the literary imagination</i> . https://cdl.library.brown.edu/cdl/item/b94568790_b94568790.	LINK 3 HR
		Morrison, Toni. Love. https://cdl.library.brown.edu/cdl/item/b34560257_i128225944.	LINK 3 HR
		Morrison, Toni. <i>Beloved.</i> (2006). https://login.revproxy.brown.edu/login? URL=http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=752057.	LINK
		Morrison, Toni. The source of self-regard: selected essays, speeches, and meditations. https://cdl.library.brown.edu/cdl/item/b8555200_i189874089.	LINK 3 HR
		Morrison, Toni. God help the child. https://cdl.library.brown.edu/cdl/item/b7586259_i180133196.	LINK 3 HR
		Morrison, Toni Sula / Toni Morrison. https://cdl.library.brown.edu/cdl/item/b1229866_i149137588.	LINK 3 HR
		Morrison, Toni. The bluest eye: a novel. https://cdl.library.brown.edu/cdl/item/b1172987_i129040010.	LINK 3 HR



Digital Lending

The bluest eye

Toni Morrison

Availability: 1 of 1

VIEW ITEM FOR 3 HOURS

(size: 7.63MB)

This digital lending service is new. If you encounter any unexpected behavior, we'd appreciate your feedback.

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b1172987_i129040010



Student View - CDL Reader

Digital Lending



Digital Lending

Return successful

Thank you for returning The bluest eye. It's now available for other patrons to view.

- Take me to the Canvas home page
- Take me to the Library home page
- Take me to the OCRA home page



Digital Lending

Here is the sweet hand: poems

Harris, Francine

Availability: o of 1 copies

PLACE A HOLD

This digital lending service is new. If you encounter any unexpected behavior, we'd appreciate your feedback.

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This institution reserves the right to refuse to accept a copying order if, in its judgment, fulfillment of the order would involve violation of copyright law.

b94146159_b94146159



Digital Lending

jrhoads@brown.edu

Here is the sweet hand: poems

Harris, Francine

A hold has been placed on **Here is the sweet hand: poems** for you. You will receive an email when the item is ready. It will be held for you for 30 minutes after it becomes available. If you can't get to the item within that timeframe, you're welcome to request a new session for this item any time.

Student View - Hold Email

rock@brown.edu

4:51 PM (5 minutes ago)







to me -

Dear Library Patron,

An item you requested, Here is the sweet hand: poems, is ready for you to view. It will be held for you for 30 minutes, until Monday, Nov. 30th at 5:21 p.m. (EST) (Brown Campus Time).

If you can't get to the item within that timeframe, you're welcome to request the item again any time.

View Here is the sweet hand : poems now

Future Enhancements

- Variable loan lengths
- Enhanced analytics
- Notification by Phone



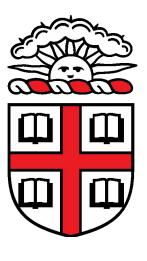
Questions?

anthony helm@brown.edu joseph rhoads@brown.edu



Thank you.





BROWN