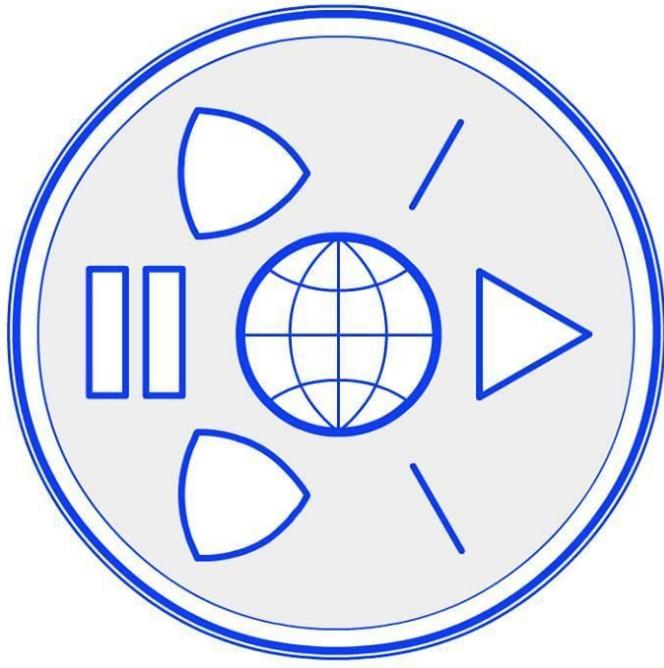


Webrecorder + Rhizome

Open-source tools, preservation &
access for the dynamic web

ISEA, Hong Kong : May 18, 2016



WEBRECORDER.io

1. Project Development
2. Methods & Materials
3. Webrecorder
4. Artworks
5. Future Development

1. Project Development
2. Methods & Materials
3. Webrecorder
4. Artworks
5. Future Development

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5. Future Development

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2. Methods & Materials
3. Webrecorder
4. Artworks
5. Future Development

1. Project Development
2. Methods & Materials
3. Webrecorder
4. Artworks
5. Future Development



The National Digital Stewardship Residency
New York



INSTITUTE of
Museum and Library
SERVICES



BROOKLYN
HISTORICAL
SOCIETY

Rhizome & Webrecorder

Preservation for ephemeral
born-digital artworks

web archiving: traditional methods

web archiving: traditional methods

Internet Archive

- Heritrix crawler
- Open Wayback
- Archive-It

web archiving: traditional methods

wget, wpull

web archiving: materials

web archiving: materials

WARC files

web archiving: materials

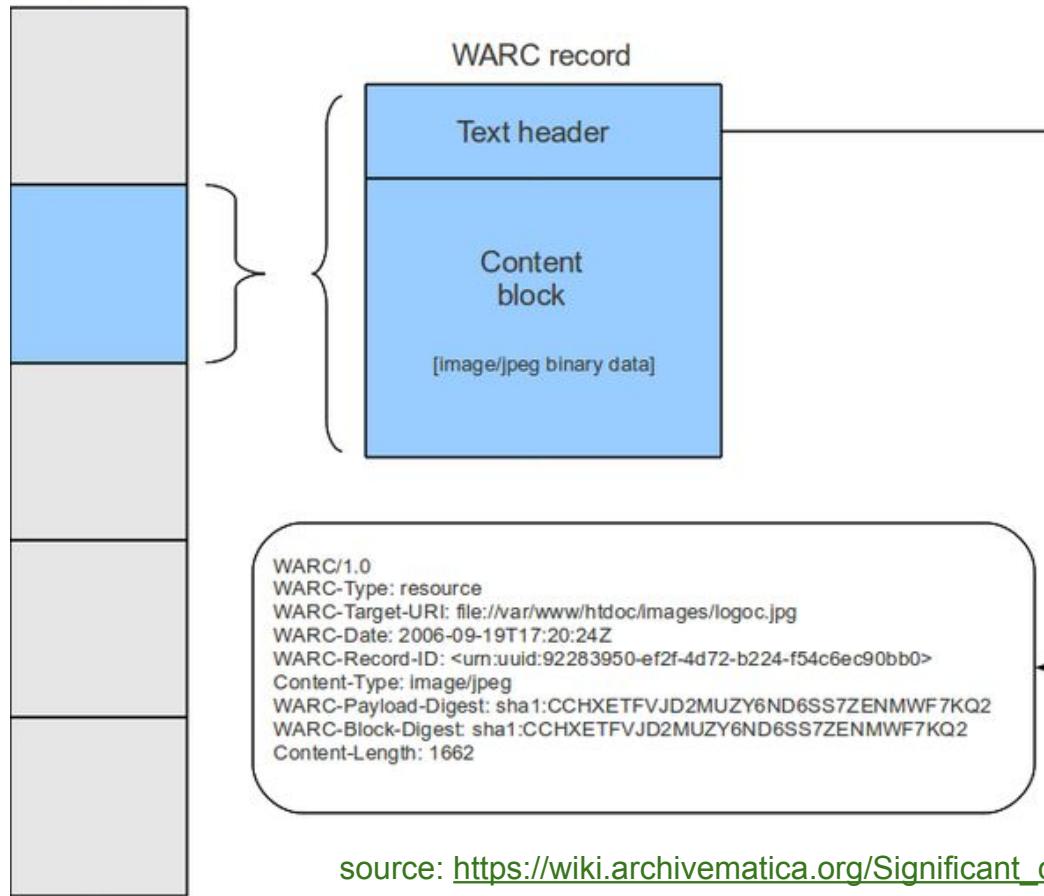
WARC files: Web ARChive format

web archiving: materials

WARC files: Web ARChive format

- ISO standard 28500:2009
- container for all resources + metadata

WARC file



source: https://wiki.archivematica.org/Significant_characteristics_of_websites

WARC/1.0
WARC-Date: 2016-04-14T16:07:53Z
WARC-Filename: Friday-20160414160753.warc.gz
WARC-Record-ID: <urn:uuid:0b71ad04-025b-11e6-a275-0242ac120003>
WARC-Type: warcinfo
Content-Length: 1657

format: WARC File Format 1.0
software: Webrecorder Platform v2.0
json-metadata: {'pages': [b'{"url": "http://sfmoma.tumblr.com/post/142469136055/submissionfriday-adam-hillman-post-modern", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00c2\\u00a0Adam Hillman, Post Modern,... | SFMOMA", "timestamp": "20160414155404"}', b'{"url": "https://www.instagram.com/sfmoma/", "title": "SFMOMA (@sfmoma) \\u00c2\\u00a0\\u00a2 Instagram photos and videos", "timestamp": "20160414160039"}', b'{"url": "http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00c2\\u00a0Hilos by Miguel Devia | SFMOMA", "timestamp": "20160414154318"}', b'{"url": "https://www.instagram.com/witenry/", "title": "Adam Hillman (@witenry) \\u00c2\\u00a0\\u00a2 Instagram photos and videos", "timestamp": "20160414154445"}', b'{"url": "http://sfmoma.tumblr.com/post/14252100698/every-movie-animation-owes-something-to-eadweard#=_", "title": "Every movie + animation owes something to Eadweard... | SFMOMA", "timestamp": "20160414154410"}', b'{"url": "http://sfmoma.tumblr.com/post/142637910588/fun-fact-did-you-know-that-standard-gallery#=_", "title": "Fun fact: did you know that standard gallery... | SFMOMA", "timestamp": "20160414154416"}', b'{"url": "http://tumblr.redirect?z=https%3A%2F%2Fwww.instagram.com%2Fwitenry%2F&t=OTVkk2NhYmQ5NjdmZDhODMz2MjEwZTA0YmEwYmFnN2zmMDZjN2NiOsxLbE1PMVv4b%3D%3D", "title": "https://www.instagram.com/witenry/", "timestamp": "20160414154444"}', b'{"url": "http://sfmoma.tumblr.com/tagged/submission#=_", "title": "submission | SFMOMA", "timestamp": "20160414154427"}]}]

WARC/1.0
WARC-Block-Digest: sha1:NWNZAG6QGXA52EJSGOHPDVK2PC362SZA
WARC-Type: response
WARC-IP-Address: 66.6.42.21
WARC-Target-URI: http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia
WARC-Date: 2016-04-14T15:43:18Z
WARC-Payload-Digest: sha1:HOPAO4XVMGARMWMXTLY3RAC42OY3I6P
WARC-Record-ID: <urn:uuid:9c2e8afa-0257-11e6-89ca-0242ac120005>
Content-Length: 11622

HTTP/1.1 200 OK
Server: nginx
Date: Thu, 14 Apr 2016 15:43:18 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 10391
Connection: close
P3P: CP="Tumblr's privacy policy is available here: https://www.tumblr.com/policy/en/privacy"
X-Tumblr-User: sfmoma
X-Tumblr-Pixel-0: https://px.srvcs.tumblr.com/impixu?
T=1460648580&t=eyJ0eXB1IjoidXjsIiwidXjsIjoiaHR0cdPcl1wvc2Ztb21hLnR1bWJscI5jb21cL3Bvc3RcLzE0MjQ4NzYwNDkzNlwvc3VibWlzc21vbmZyaWRheS1oaWxvcylieS1taWd1ZWwtZGV2aWEiLCJyZXF0eXB1IjowL
CJyb3V0ZSI6IlwvcG9zdFwv0mlkXC86c3VtbWFyeS9jU=AGoICJCJHL&K=8c56da4b5f329808b1876c39a56fd80349c54d66ef726b2db7b9738bf3376b--https://px.srvcs.tumblr.com/impixu?
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X-Tumblr-Pixel-1:
b25mcmlkYXkttaGlsb3MtYnkbtWlndWVsLWRldmlhIiwiVmXwdHlZSI6Mcwicm91dGU1OjC13Bvc3RcLzppZFwvOnN1bWhcnk1lCJwb3N0cyI6W3sicG9zdGlkIjoiMTQyNDg3NjA00TM2IiwiYmxvZ2lkIjoiMjM10TQ5ODYiLCJz
b3VyY2UiOjMzfV19jU=EMBEOFFFKKA&K=f044117332cf3baf9f3440edb334f912900520527011193045a7df8b5862be3b
X-Tumblr-Pixel: 2
X-UA-Compatible: IE=Edge,chrome=1
Content-Encoding: gzip
X-UA-Device: desktop
Vary: X-UA-Device, Accept-Encoding
Accept-Ranges: bytes

WARC/1.0
WARC-Date: 2016-04-14T16:07:53Z
WARC-Filename: Friday-20160414160753.warc.gz
WARC-Record-ID: <urn:uuid:0b71ad04-025b-11e6-a275-0242ac120003>
WARC-Type: warcinfo
Content-Length: 1657

format: WARC File Format 1.0
software: Webrecorder Platform v2.0
json-metadata: {'pages': [b'{"url": "http://sfmoma.tumblr.com/post/142469136055/submissionfriday-adam-hillman-post-modern", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00c2\\u00a0Adam Hillman, Post Modern,... | SFMOMA", "timestamp": "20160414155404"}', b'{"url": "https://www.instagram.com/sfmoma/", "title": "SFMOMA (@sfmoma) \\u00c2\\u00a0\\u00a2 Instagram photos and videos", "timestamp": "20160414160039"}', b'{"url": "http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00a0\\u00c2\\u00a0Hilos by Miguel Devia | SFMOMA", "timestamp": "20160414154318"}', b'{"url": "https://www.instagram.com/witenry/", "title": "Adam Hillman (@witenry) \\u00c2\\u00a0\\u00a2 Instagram photos and videos", "timestamp": "20160414154445"}', b'{"url": "http://sfmoma.tumblr.com/post/142521006988/every-movie-animation-owes-something-to-eadweard#=_", "title": "Every movie + animation owes something to Eadweard... | SFMOMA", "timestamp": "20160414154410"}', b'{"url": "http://sfmoma.tumblr.com/post/142637910588/fun-fact-did-you-know-that-standard-gallery#=_", "title": "Fun fact: did you know that standard gallery... | SFMOMA", "timestamp": "20160414154416"}', b'{"url": "http://t.umblr.com/redirect?z=https%3A%2F%2Fwww.instagram.com%2Fwitenry%2F&t=OTVkk2NhYmQ5NjdmZDhODMz2MjEwZTA0YmEwYmFnN2zmMDZjN2NiOsxLbE1PMVv4b%3D%3D", "title": "https://www.instagram.com/witenry/", "timestamp": "20160414154444"}', b'{"url": "http://sfmoma.tumblr.com/tagged/submission#=_", "title": "submission | SFMOMA", "timestamp": "20160414154427"}]}]

WARC/1.0
WARC-Block-Digest: sha1:NWNZAG6QGXA52EJSGOHPDVK2PC362SZA
WARC-Type: response
WARC-IP-Address: 66.6.42.21
WARC-Target-URI: http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia
WARC-Date: 2016-04-14T15:43:18Z
WARC-Payload-Digest: sha1:HOPAO4XVMGARMWMXTLJY3RAC42OY3I6P
WARC-Record-ID: <urn:uuid:9c2e8afa-0257-11e6-89ca-0242ac120005>
Content-Length: 11622

HTTP/1.1 200 OK
Server: nginx
Date: Thu, 14 Apr 2016 15:43:18 GMT
Content-Type: text/html; charset=utf-8
Content-Length: 10391
Connection: close
P3P: CP="Tumblr's privacy policy is available here: https://www.tumblr.com/policy/en/privacy"
X-Tumblr-User: sfmoma
X-Tumblr-Pixel-0: https://px.srvcs.tumblr.com/impixu?
T=1460648580&t=eyJ0eXB1IjoidXjsIjoihaHR0cdPcl1wvc2Ztb21hLnR1bWJscI5jb21cL3Bvc3RcLzE0MjQ4NzYwNDkzNlwvc3VibWlzc2lvbmZyaWRheS1oaWxvcylielS1taWd1ZWwtZGV2aWEiLCJyZXF0eXB1IjowL
CJyb3V0ZSI6IlwvcG9zdFwv0mlkXC86c3VtbWFyeS9jU=AGOICJCJHL&K=8c56da4b5f329808b1876c39a56fd80349c54d66ef726b2db7b9738bf3376b--https://px.srvcs.tumblr.com/impixu?
T=1460648580&t=eyJ0eXB1IjoiG9zdCIsInVybcI6Inhb0dHA6XC9cL3NmbW9tYS50dw1ibHIuY29tXC9wb3N0XC8xNDI0ODc2MDQ5MzCzL3N1Ymlpc3Np
X-Tumblr-Pixel-1:
b25mcmlkYXkttaGlsb3MtYntkbWlndWVsLWRldmlhIiwiVmXcmV91dGU1OjC13Bvc3RcLzppZFwvOnN1bWhcnk1lCJwb3N0cyI6W3sicG9zdGlkIjoiMTQyNDg3NjA00TM2IiwiYmxvZ2lkIjoiMjM10TQ5ODYiLCJz
b3VyY2UiOjMzfV19jU=EMBEFOFFFKA&K=f044117332cf3baf9f3440edb334f912900520527011193045a7df8b5862be3b
X-Tumblr-Pixel: 2
X-UA-Compatible: IE=Edge,chrome=1
Content-Encoding: gzip
X-UA-Device: desktop
Vary: X-UA-Device, Accept-Encoding
Accept-Ranges: bytes

WARC/1.0
WARC-Date: 2016-04-14T16:07:53Z
WARC-Filename: Friday-20160414160753.warc.gz
WARC-Record-ID: <urn:uuid:0b71ad04-025b-11e6-a275-0242ac120003>
WARC-Type: warcinfo
Content-Length: 1657

format: WARC File Format 1.0
software: Webrecorder Platform v2.0
json-metadata: {'pages': [b'{"url": "http://sfmoma.tumblr.com/post/142469136055/submissionfriday-adam-hillman-post-modern", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00c2\\u00a0Adam Hillman, Post Modern,... | SFMOMA", "timestamp": "20160414155404"}', b'{"url": "https://www.instagram.com/sfmoma/", "title": "SFMOMA (@sfmoma) \\u00e2\\u0080\\u00a2 Instagram photos and videos", "timestamp": "20160414160039"}', b'{"url": "http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia", "title": "SubmissionFriday:\\u00c2\\u00a0\\u00c2\\u00a0Hilos by Miguel Devia | SFMOMA", "timestamp": "20160414154318"}', b'{"url": "https://www.instagram.com/witenry/", "title": "Adam Hillman (@witenry) \\u00e2\\u0080\\u00a2 Instagram photos and videos", "timestamp": "20160414154445"}', b'{"url": "http://sfmoma.tumblr.com/post/142521006988/every-movie-animation-owes-something-to-eadweard#=_", "title": "Every movie + animation owes something to Eadweard... | SFMOMA", "timestamp": "20160414154410"}', b'{"url": "http://sfmoma.tumblr.com/post/142637910588/fun-fact-did-you-know-that-standard-gallery#=_", "title": "Fun fact: did you know that standard gallery... | SFMOMA", "timestamp": "20160414154416"}', b'{"url": "http://t.umblr.com/redirect?z=https%3A%2F%2Fwww.instagram.com%2Fwitenry%2F&t=OTVkkN2NhYmQSNjdmZDbhODMz2MjEwZTA0YmEwYmFnN2zmMDZjN2NiOsxLbE1PMVV4b%3D%3D", "title": "https://www.instagram.com/witenry/", "timestamp": "20160414154444"}', b'{"url": "http://sfmoma.tumblr.com/tagged/submission#=_", "title": "submission | SFMOMA", "timestamp": "20160414154427"}]}]

WARC-Block-Digest: sha1:NWNZAG6QGXA52EJSGOHPDVK2PC362SZA
WARC-Type: response
WARC-IP-Address: 66.6.42.21
WARC-Target-URI: http://sfmoma.tumblr.com/post/142487604936/submissionfriday-hilos-by-miguel-devia
WARC-Date: 2016-04-14T15:43:18Z
WARC-Payload-Digest: sha1:HOPAO4XVMGARMWMXTLJY3RAC42OY3I6P
WARC-Record-ID: <urn:uuid:9c2e8afa-0257-11e6-89ca-0242ac120005>
Content-Length: 11622

HTTP/1.1 200 OK
Server: nginx

Content-Type: text/html; charset=utf-8
Content-Length: 10391
Connection: close
P3P: CP="Tumblr's privacy policy is available here: https://www.tumblr.com/policy/en/privacy"
X-Tumblr-User: sfmoma
X-Tumblr-Pixel-0: https://px.srvcs.tumblr.com/impixu?
T=1460648580&t=eyJ0eXB1jjojdXjsIjoiadHR0cdPcl1wvc2Ztb21hLnR1bWJscis5jb21cL3Bvc3RcLzE0MjQ4NzYwNDkzNlwvc3VibWlzc21vbmZyaWRheS1oaWxvcylielS1taWd1ZWwtZGV2aWEiLCJyZXF0eXB1IjowLCJyb3V0ZSI6IlwvcG9zdFwv0mlkXC86c3VtbWFyeS9jU=AGOICJCJHL&k=8c56da4bb5f329808b1876c39a56fd80349cc54d66ef726b2db7b9738bf3376b--https://px.srvcs.tumblr.com/impixu?
T=1460648580&t=eyJ0eXB1jjoicG9zdCIsInVybcI6Inhb0dHA6XC9cI3NmbrW9tYS50dw1ibHIuY29tXC9wb3N0XC8xNDI0ODc2MDQ5MzCzL3N1Ymlpc3Np
X-Tumblr-Pixel-1:
b25mcmlkYXktaglsb3MtYnkbtWlndWVsLWRldmlhIiwi cmVxZl6Mcwicm91dGU1oiJcL3Bvc3RcLzppZFwvOnN1bWhcnkijLCJwb3N0cyI6W3sicG9zdGlkjoiMTQyNDg3NjA00TM2IiwiYmxvZ2lkIjoiMjM10TQ5ODYiLCJz
b3VyY2UiOjMzfV19&u=EMBEFOFFFKA&k=f044117332cf3baf9f3440edb334f912900520527011193045a7df8b5862be3b
X-Tumblr-Pixel: 2
X-UA-Compatible: IE=Edge,chrome=1
Content-Encoding: gzip
X-UA-Device: desktop
Vary: X-UA-Device, Accept-Encoding
Accept-Ranges: bytes

Webrecorder: tools

Browser-based:

[Webrecorder.io](#) - capture web sites

On your own computer:

[WebArchivePlayer](#) - replay WARC files

`pywb`- build, index, replay collections of WARC files

- via [CDX Indexing](#)

The screenshot shows a web browser window with the URL <https://webrecorder.io/> in the address bar. The page title is "webrecorder.io". On the right side of the header, there are "Sign Up" and "Login" buttons, along with icons for a gear, AdBlock Plus (ABP), and a menu.

Welcome to Webrecorder Beta

An [open source](#) web archiving platform and service for all!
Easily create high-fidelity, standards compliant archives of the web as you browse.

Try now:

Record
 Preview before recording

We are inviting users to build their own archives as we test this service.
[Request an invite to sign-up](#)

A project of **RHIZOME**

[Donate](#) to support [Webrecorder](#) and related open-source web archiving tools.
Donations will be tax-deductible.

Contact Us for any questions or feedback.
[Follow on Twitter](#)

The screenshot shows a web browser window with the URL <https://webrecorder.io/> in the address bar. The page title is "Welcome to Webrecorder Beta". The main content area features a heading "Welcome to Webrecorder Beta", a sub-heading "An open source web archiving platform and service for all!", and a descriptive sentence "Easily create high-fidelity, standards compliant archives of the web as you browse.". Below this is a form with a red rounded rectangle around it, containing a text input field "Enter a url here", a blue "Record" button with a white play icon, and a checkbox "Preview before recording". A pink rounded rectangle highlights the text "We are inviting users to build their own archives as we test this service." and a blue "Request an invite to sign-up" button. At the bottom, there's a "A project of RHIZOME" logo, a "Donate" button, and links for "Contact Us" and "Follow on Twitter". The browser interface includes standard navigation buttons, a search bar, and extension icons.

Welcome to Webrecorder Beta

An [open source](#) web archiving platform and service for all!

Easily create high-fidelity, standards compliant archives of the web as you browse.

Try now:

Enter a url here Record Preview before recording

We are inviting users to build their own archives as we test this service.

[Request an invite to sign-up](#)

A project of **RHIZOME**

[Donate](#) to support [Webrecorder](#) and related open-source web archiving tools.
Donations will be tax-deductible.

Contact Us for any questions or feedback.
Follow on Twitter

https://webrecorder...s-will-be-filled

https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma

Anonymous Collection 3.32 MB Browse Collection Auto Scroll Doesn't look right?

Sign Up Login

Record http://sfmoma.tumblr.com/tagged/futuresfmoma

SFMO MA

ABOUT // SUBMIT // SUBMISSION FRIDAY POSTS // ABOUT OUR EXPANSION
// NEW SFMOMA

4 MONTHS AGO 90

RANDOM | RSS | ASK | SUBMIT

https://webrecorder...s-will-be-filled

https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma

ANONYMOUS COLLECTION 0.02 MB Browse Collection Auto Scroll Doesn't look right?

Sign Up Login

Record http://sfmoma.tumblr.com/tagged/futuresfmoma

SFMOMA

ABOUT // SUBMIT // SUBMISSION FRIDAY POSTS // ABOUT OUR EXPANSION
// NEW SFMOMA

4 MONTHS AGO 90

https://webrecorder.io/record/mp/_http://40.media.tumblr.com/5508802c15a77a71f1edb285e447a19a/tumblr_nwu86hrogh1r064gzo5_1280.jpg

RANDOM | RSS | ASK | SUBMIT

<https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma>



<https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma>



/ Anonymous Collection

1.97 MB

↗ Browse Co

Record ▾

<http://sfmoma.tumblr.com/tagged/futuresfmoma>

https://webreco...d/futuresfmoma



https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma



/ Anonymous Collection

1.97 MB

↗ Browse Co

Record ▾

https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma

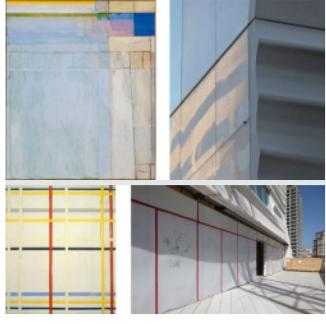
Anonymous Collection 3.32 MB Browse Collection Auto Scroll Doesn't look right?

Sign Up Login

Record http://sfmoma.tumblr.com/tagged/futuresfmoma

ABOUT // SUBMIT // SUBMISSION FRIDAY POSTS // ABOUT OUR EXPANSION // NEW SFMOMA

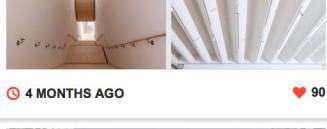
 SFMOMA











🕒 4 MONTHS AGO 90 RANDOM | RSS | ASK | SUBMIT

https://webreco...d/futuresfmoma

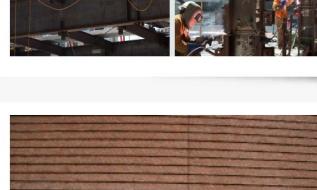
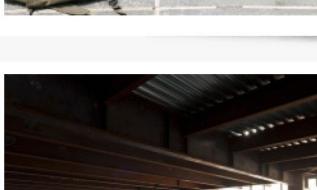
https://webrecorder.io/replay/20160311063549/http://sfmoma.tumblr.com/tagged/futuresfmoma

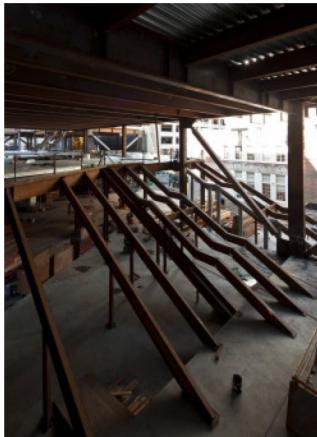
Anonymous Collection 18.38 MB Browse Collection Auto Scroll Doesn't look right? Sign Up Login

Reply from 3/11/2016, 1:35:49 AM http://sfmoma.tumblr.com/tagged/futuresfmoma

Record Record Missing Preview Replay

ABOUT // SUBMIT // SUBMISSION FRIDAY POSTS // ABOUT OUR EXPANSION // NEW SFMOMA







ARCHIVE | RANDOM | RSS | ASK | SUBMIT

https://webreco...d/futuresfmoma

https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma

Anonymous Collection 4.75 MB Browse Collection Auto Scroll Doesn't look right?

Sign Up Login

Record http://sfmoma.tumblr.com/tagged/futuresfmoma

SFMO MA

ABOUT // SUBMIT // SUBMISSION FRIDAY POSTS // ABOUT OUR EXPANSION // NEW SFMOMA

Installation of Richard...

1 YEAR AGO 74

ARCHIVE | RANDOM | RSS | ASK | SUBMIT

The image shows a screenshot of a web browser displaying a collection of images from sfmoma.tumblr.com. The browser interface includes a header with a back button, a lock icon, and the URL https://webrecorder.io/record/http://sfmoma.tumblr.com/tagged/futuresfmoma. Below the header are navigation buttons for 'Anonymous Collection' (4.75 MB), 'Browse Collection', 'Auto Scroll', and a 'Doesn't look right?' button. There are also 'Sign Up' and 'Login' buttons. A 'Record' button with the URL http://sfmoma.tumblr.com/tagged/futuresfmoma is visible. The main content area features the SFMOMA logo and navigation links for 'ABOUT', 'SUBMIT', 'SUBMISSION FRIDAY POSTS', 'ABOUT OUR EXPANSION', and 'NEW SFMOMA'. The central image is a video thumbnail titled 'Installation of Richard...', which is highlighted with a pink rounded rectangle. Below the thumbnail are the text '1 YEAR AGO' and '74' likes. The rest of the page displays various other images related to the SFMOMA expansion project, such as construction workers, large steel structures, and cityscapes.

https://webrec...sfmoma-reopens

https://webredder.io/digitalconserv/sfmoma-reopens#records

SFMOMA - Reopens May14 /sfmoma-reopens

Public? NO

Enter a url here Record Preview before recording

About Records Storage Settings Space Used: 125.26 MB / 1.00 GB

The following pages were recorded in this collection:

Show 25 entries Search:

Title	Recorded on
http://sfmoma.tumblr.com/tagged/futuresfmoma#_=_	2/29/2016, 9:03:37 PM
futuresfmoma SFMOMA	2/29/2016, 9:03:37 PM
SFMOMA	2/29/2016, 9:03:33 PM
http://sfmoma.tumblr.com	2/29/2016, 9:00:30 PM
SFMOMA	2/29/2016, 9:00:30 PM
SFMOMA	2/29/2016, 9:00:30 PM
Our Expansion · SFMOMA	2/29/2016, 8:52:17 PM
SFMOMA Interactive Plan	2/29/2016, 8:51:07 PM

https://webrecor.../replay#records +

https://webrecorder.io/replay/files

Anonymous Collection

Enter a url here Record Preview before recording

About Records Storage Settings Space Used: 12.08 MB / 500.00 MB Expires in 28:46

All archived data is stored in standard **WARC format** files. You can browse WARC files locally by using [WebArchivePlayer](#)

Download WARC For Collection (12.08 MB)

Download individual WARC files in this collection:

Show 25 entries Search:

Filename	Last Modified	Size
wearchive-20160311065049963-00000-6-01118189ae92.warc.gz	3/11/2016, 1:52:23 AM	12.08 MB

Showing 1 to 1 of 1 entries Previous 1 Next

Contact Us for any questions or feedback.
Webrecorder is a project of **RHIZOME**
Support Webrecorder [Donate](#)

“high-fidelity web archiving”

WYSIWYA

“what you see is what you archive”

“high-fidelity web archiving”

Challenges

- scalability: “human-centered” vs. automation?

webenact

This is [Rhizome](#)'s server for re-enacting captures from the live web.

label	creator	date	
		start	end
<u>Excellences & Perfections</u>	Amalia Ulman	2014-04-19	2014-09-19
<u>my body — a Wunderkammer</u>	Shelley Jackson		1997
<u>Beautiful Frog</u>	Porpentine		2015
<u>Howling Dogs</u>	Porpentine		2012
<u>I'm Google</u>	Dina Kelberman		2011

Social Identity

“Excellences
& Perfections”
Amalia Ulman





amaliaulman on Instagram

Guest

Log in

Instagram

webenact.rhizome.org/excellences-and-perfections/20141014150552/http://instagra...

≡

Follow

475 posts

88,906 followers

522 following

September 2014

<img alt="A thumbnail image

amaliaulman on Instagram

Guest

webenact.rhizome.org/excellences-and-perfections/20141014150552/http://instagram.c...

amaliaulman 4 months ago

I feel like i look like 40 in this but wtv #gettin #ready #werk #werk hope he finds it cute lol? Maybe?

elvir_blog sakuraz harinef and 110 others like this.

esthermiquel Guapa guapa guapa!

legitimate fuck him, amalia

legitimate (existentially)

vacuumnoise bathe beige

lasingf



amaliaaulman

5 months ago

Breakfast today 🐷🌸💐☕

Follow

giolenah, elvir_blog, rosieprata and 189 others like this.



open1one

rare albino strawbs



amaliaaulman

Picked them up this mornin @open1one



amaliaaulman

Hollywood Curiosities @open1one



gingerboss

Ｈaha...nice color match..



alice_teddy0215

Cute



ryder_ripps

So pretty



mewedemeyer

((०ጀ०))ゞ



rosieprata

@kate_edmonson



Leave a comment...





amaliaulman

4 months ago

N1 FLOWER

Follow

theseamericans, steviaplease, lxrdsvtiva and 110 others like this.



littlebabinski

:)



ambrewalters

♥ ♥



wearelintroller

♥ ♥ ♥ ♥ ♥ ♥ ♥



gabriellematelson

May I ask where you get your hair colored? Looking for a good place to go in la! Love your color



amaliaulman

@gabriellematelson @majormoonn



gabriellematelson

Thank you! What shade of blonde is it that you ask for? I'm afraid to go platinum and your seems like the perfect medium



ambrewalters



wearelintroller



gabriellematelson

May I ask where you get your hair colored? Looking for a good place to go in la! Love your color



amaliaulman

@gabriellematelson @majormoonn



gabriellematelson

Thank you! What shade of blonde is it that you ask for?
I'm afraid to go platinum and your seems like the perfect
medium



Social Identity

“Veteranas & Rucas”

Guadalupe Rosales

Chicana Cali Life Foto Archive (@veteranas_and_rucas) • Instagram photos and videos

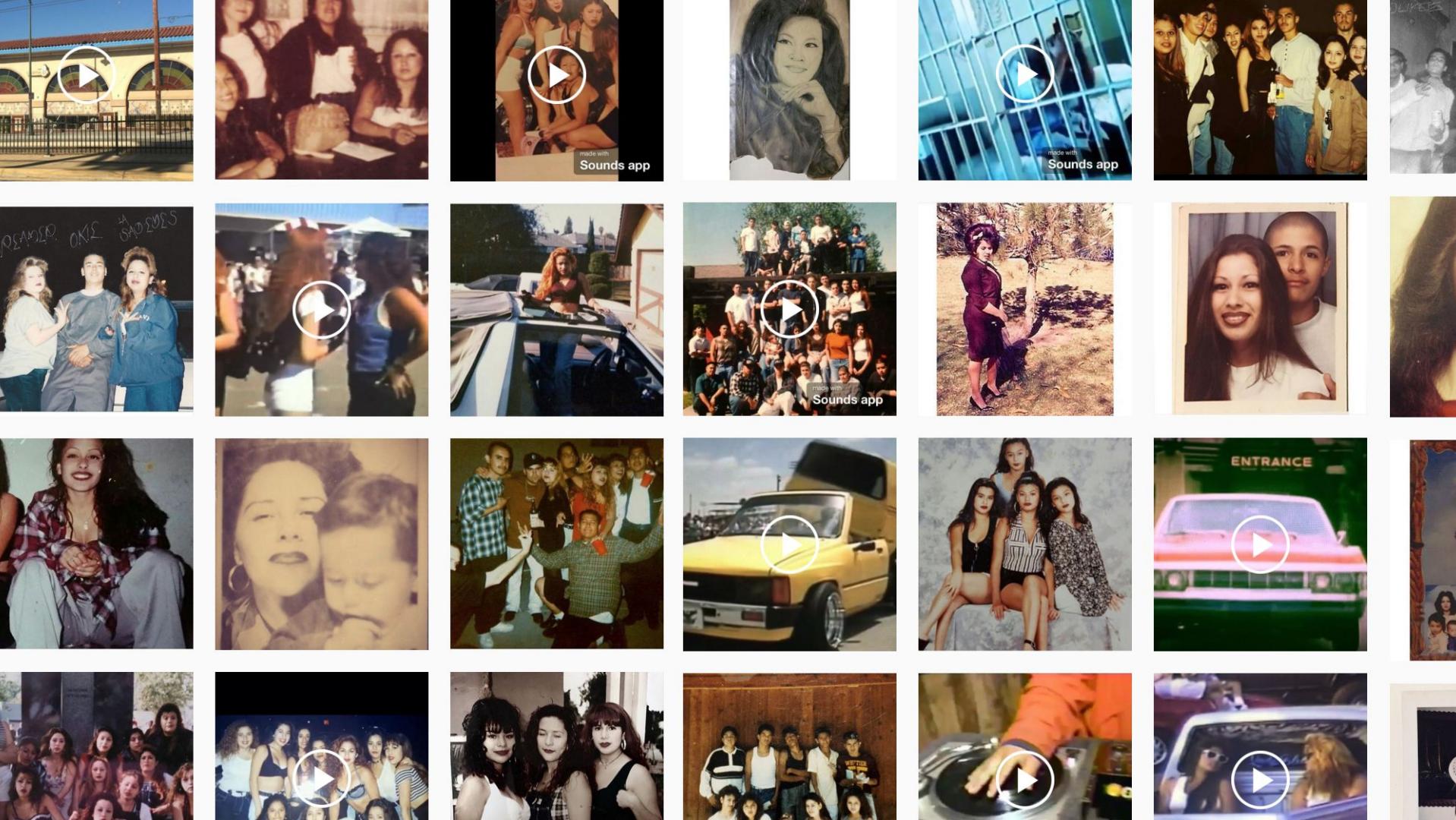
+ webenact.rhizome.org/veteranas-and-rucas/20160217193311/http://www.instagram.com/veteranas_and_rucas/ SQRL Reader

Instagram Search Get the app Log in

veteranas_and_rucas FOLLOW

Chicana Cali Life Foto Archive HOOD LIFE-Party Crew Scene-Gang Life-Everyday
Chicana CALI Life, SC: @veteranas_and_rucas Send your PERSONAL photo DM or
eastLA1980@gmail.com(90s & older) www.newmuseum.org/calendar/view/who-owns-digital-social-memory?version=desktop

1,558 posts 49.2k followers 1,442 following





veteranas_and_ru..

FOLLOW

926 likes

3d

1995/96 Cinco De Mayo #Dtla (photo:
@that_cali_girl_nena)

pell213 Omg.... Hoody daze...that yr was a
blast... OI XXX

markimarkdtla They just don't make em
like that no more. They taught me so much
lol

opencall.io Great shot!

tattedupcasper 1995 was a straight up
gangster year

bigg_sexy_76 Got my first term back in 95
...when it was poppin in the streets and in
the torcido

richie_rich_nok Post up some DC pics on
here @serg

that_call_girl_nena @sweetwhisper28
@christinadavila @lilly.davila.946 🙌💯🤣
👍😊😊😊👍👍👍👍

Log in to like or comment.

○ ○ ○

Contested Histories

Collecting Vines at the National Football Museum, Manchester







mubs7

Mar 15, 2015

Wayne Rooney boxing
celebration

4 Likes



MU

1

45:31

CARLO WHITE GRAEME LE SAUX

2014/15 KITS

2014





The Final Whistle

<https://webrecorder.io>

The screenshot shows a web browser window with the URL <https://webrecorder.io/> in the address bar. The page itself is titled "Welcome to Webrecorder Beta" and describes it as an open source web archiving platform. It features a search bar labeled "Enter a url here" and a large blue "Record" button. Below the search bar is a checkbox for "Preview before recording". The footer of the page includes the text "A project of RHIZOME".

https://webrecorder.io/

webrecorder.io

Welcome to Webrecorder Beta

An open source web archiving platform and service for all!

Easily create high-fidelity, standards compliant archives of the web as you browse.

Try now:

Enter a url here

Record

Preview before recording

We are inviting users to build their own archives as we test this service.

[Request an invite to sign-up](#)

A project of RHIZOME

<https://webrecorder.io>

record, save, replay websites, download WARC files

The screenshot shows a web browser window with the URL <https://webrecorder.io/> in the address bar. The page title is "webrecorder.io". On the right side of the header, there are "Sign Up" and "Login" buttons. Below the header, the main content area features a large heading "Welcome to Webrecorder Beta". Underneath it, two descriptive sentences are displayed: "An open source web archiving platform and service for all!" and "Easily create high-fidelity, standards compliant archives of the web as you browse.". A section titled "Try now:" contains a form with a text input field labeled "Enter a url here" and a blue "Record" button. To the right of the input field is a checkbox labeled "Preview before recording". Below this form, a message reads "We are inviting users to build their own archives as we test this service." followed by a link "Request an invite to sign-up". At the bottom of the page, it says "A project of RHIZOME".

https://webrecorder.io/

webrecorder.io

Sign Up Login

Welcome to Webrecorder Beta

An open source web archiving platform and service for all!

Easily create high-fidelity, standards compliant archives of the web as you browse.

Try now:

Enter a url here Record Preview before recording

We are inviting users to build their own archives as we test this service.

[Request an invite to sign-up](#)

A project of RHIZOME

<https://github.com/ikreymer>

Screenshot of the GitHub profile for <https://github.com/ikreymer>.

The profile page shows the following details:

- Profile Picture:** A portrait of Ilya Kreymer wearing a black fedora and glasses.
- Name:** Ilya Kreymer
- Username:** ikreymer
- Location:** San Francisco, United States
- Joined:** Aug 30, 2011
- Statistics:** 105 Followers, 43 Starred, 2 Following
- Popular repositories:**
 - [netcapsule](#) (202 stars)
 - [pywb](#) (179 stars)
 - [webarchiveplayer](#) (44 stars)
 - [browsertrix](#) (24 stars)
 - [pywb-webrecorder](#) (21 stars)
- Repositories contributed to:**
 - [webrecoorder/webrecoorder](#) (128 stars)
 - [hypothesis/via](#) (16 stars)
 - [internetarchive/surt](#) (8 stars)
 - [ipfs/py-ipfs-api](#) (45 stars)
 - [jamesls/fakeredis](#) (171 stars)
- Public contributions:** A heatmap showing contributions over time from March to February.

<https://github.com/ikreymer> : webarchiveplayer

The screenshot shows Ilya Kreymer's GitHub profile page. At the top, there is a large photo of Ilya wearing a black fedora and glasses, smiling. Below the photo, his name "Ilya Kreymer" and GitHub handle "ikreymer" are displayed. To the right of the photo, there are three tabs: "Contributions", "Repositories", and "Public activity". The "Repositories" tab is selected. In the main content area, there are two sections: "Popular repositories" and "Repositories contributed to". The "Popular repositories" section lists four repositories: "netcapsule", "pywb", "webarchiveplayer", and "browsertrix". The "webarchiveplayer" repository is highlighted with a red box. The "Repositories contributed to" section lists five repositories: "webrecorder/webrecorder", "hypothesis/via", "internetarchive/surt", "ipfs/py-ipfs-api", and "jamesls/fakeredis". At the bottom, there is a section titled "Public contributions" with a heatmap visualization.

<https://github.com/ikreymer>

Ilya Kreymer
ikreymer

Follow

Popular repositories

- [netcapsule](#)
Browse old web pages the old way with virtual... 202 ★
- [pywb](#)
Python WayBack for web archive replay and u... 179 ★
- [webarchiveplayer](#)
Desktop application for browsing web archives... 44 ★
- [browsertrix](#)
Browser-Based On-Demand Web Archiving A... 24 ★
- [pywb-webrecorder](#)
Check out <https://github.com/webrecorder/we...> 21 ★

Repositories contributed to

- [webrecorder/webrecorder](#)
Web Archiving For All! 128 ★
- [hypothesis/via](#)
Annotation-enabled web proxy 16 ★
- [internetarchive/surt](#)
Sort-friendly URI Reordering Transform (SUR...) 8 ★
- [ipfs/py-ipfs-api](#)
A python client library for the IPFS API 45 ★
- [jamesls/fakeredis](#)
Fake implementation of redis API (redis-py) fo... 171 ★

Public contributions

105 Followers 43 Starred 2 Following

Organizations

<https://github.com/ikreymer> : webarchiveplayer

replay WARC files on your own computer

The screenshot shows Ilya Kreymer's GitHub profile page. On the left, there is a large portrait photo of him wearing a black fedora and glasses. Below the photo, his name "Ilya Kreymer" and GitHub handle "ikreymer" are displayed. To the right of the photo, there are three tabs: "Contributions", "Repositories", and "Public activity". The "Repositories" tab is selected. Under the "Popular repositories" section, the "webarchiveplayer" repository is highlighted with a red box. This repository has 44 stars. Other popular repositories listed include "netcapsule", "pywb", "browsertrix", and "pywb-webrecorder". In the "Repositories contributed to" section, repositories like "webrecorder/webrecorder", "hypothesis/via", "internetarchive/surt", "ipfs/py-ipfs-api", and "jamesls/fakeredis" are listed. At the bottom, there is a "Public contributions" section with a heatmap showing activity over time.

<https://github.com/ikreymer>

Ilya Kreymer
ikreymer

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Fake implementation of redis API (redis-py) fo...

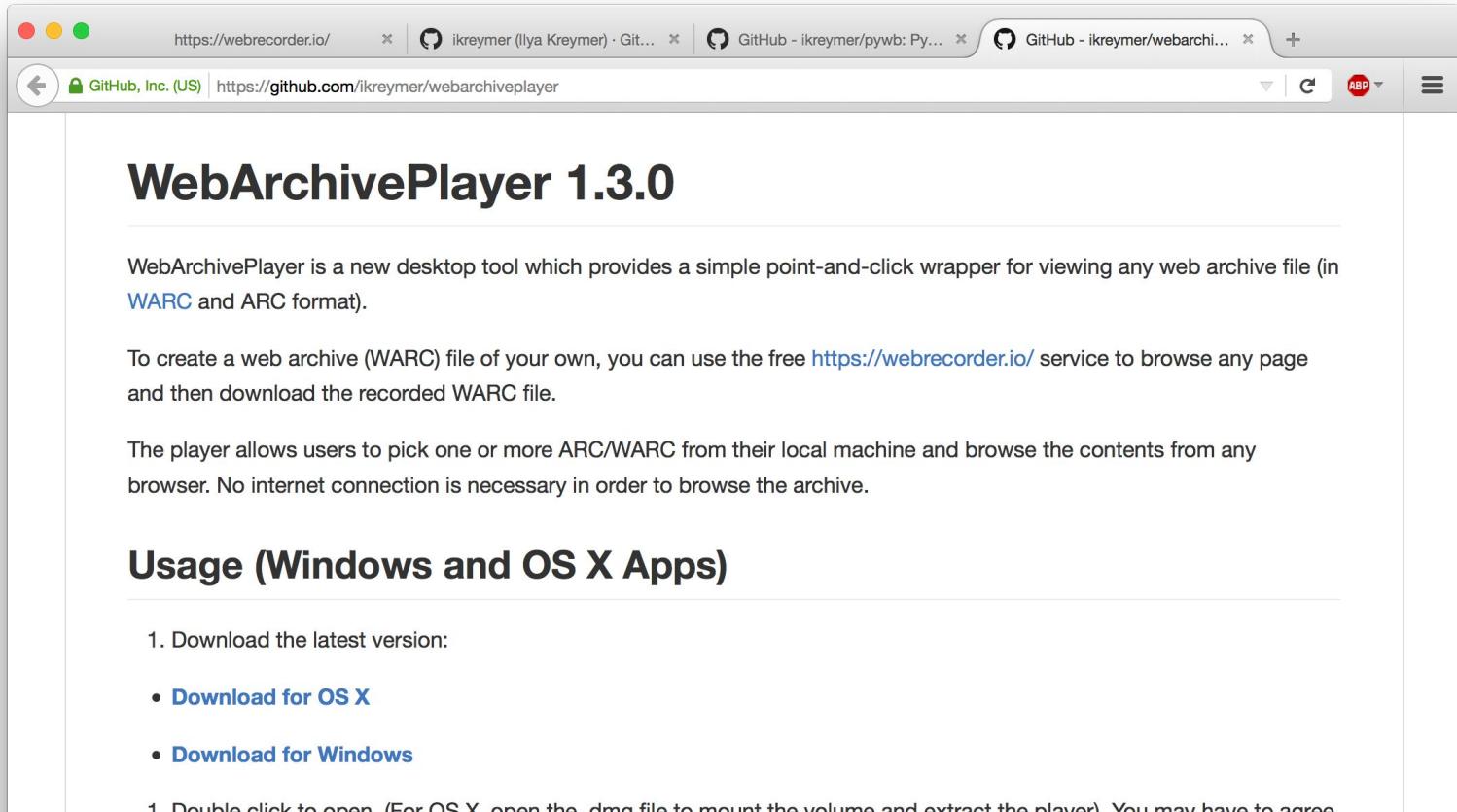
Public contributions

105 Followers 43 Starred 2 Following

Organizations

[https://github.com/ikreymer : webarchiveplayer](https://github.com/ikreymer/webarchiveplayer)

replay WARC files on your own computer

A screenshot of a web browser window. The address bar shows the URL https://github.com/ikreymer/webarchiveplayer. The page content is titled "WebArchivePlayer 1.3.0". It describes the tool as a desktop wrapper for viewing web archive files (WARC and ARC format). It explains how to create a WARC file using https://webrecorder.io/ and how the player allows users to browse local WARC files. A section titled "Usage (Windows and OS X Apps)" provides download links for OS X and Windows.

WebArchivePlayer 1.3.0

WebArchivePlayer is a new desktop tool which provides a simple point-and-click wrapper for viewing any web archive file (in [WARC](#) and ARC format).

To create a web archive (WARC) file of your own, you can use the free <https://webrecorder.io/> service to browse any page and then download the recorded WARC file.

The player allows users to pick one or more ARC/WARC from their local machine and browse the contents from any browser. No internet connection is necessary in order to browse the archive.

Usage (Windows and OS X Apps)

1. Download the latest version:
 - [Download for OS X](#)
 - [Download for Windows](#)

1. Double click to open. (For OS X, open the .dmg file to mount the volume and extract the player). You may have to agree

<https://github.com/ikreymer : pywb>

The screenshot shows Ilya Kreymer's GitHub profile page. At the top, there is a navigation bar with tabs for Contributions, Repositories, and Public activity. Below the navigation bar, there is a section for Popular repositories, which includes the 'pywb' repository, which is highlighted with a red box. To the right of the popular repositories, there is a section for Repositories contributed to, which includes 'webrecorder/webrecorder', 'hypothesis/via', 'internetarchive/surt', 'ipfs/py-ipfs-api', and 'jamesls/fakeredis'. At the bottom of the page, there is a section for Public contributions, which is represented by a heatmap showing activity over time.

Ilya Kreymer
ikreymer

Follow

Popular repositories

- netcapsule** 202 ★
Browse old web pages the old way with virtual...
- pywb** 179 ★
Python WayBack for web archive replay and u...
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- ipfs/py-ipfs-api** 45 ★
A python client library for the IPFS API
- jamesls/fakeredis** 171 ★
Fake implementation of redis API (redis-py) fo...

Public contributions

Followers: 105 | Starred: 43 | Following: 2

Organizations

<https://github.com/ikreymer> : pywb

build, index, replay web archives on your own computer

A screenshot of a GitHub user profile page for [ikreymer](#). The profile picture shows a man with glasses and a beard wearing a striped shirt and a fedora. The bio reads "Ilya Kreymer" and "ikreymer". Below the bio, it says "San Francisco, United States" and "Joined on Aug 30, 2011". The statistics show 105 Followers, 43 Starred, and 2 Following. The "Popular repositories" section lists several projects, with [pywb](#) highlighted by a red box. The "Repositories contributed to" section lists projects like [webrecorder/webrecorder](#), [hypothesis/via](#), and [ipfs/py-ipfs-api](#). The "Public contributions" section shows a heatmap of activity over time.

<https://github.com/ikreymer>

Popular repositories

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Browse old web pages the old way with virtual...
- [pywb](#) 179 ★
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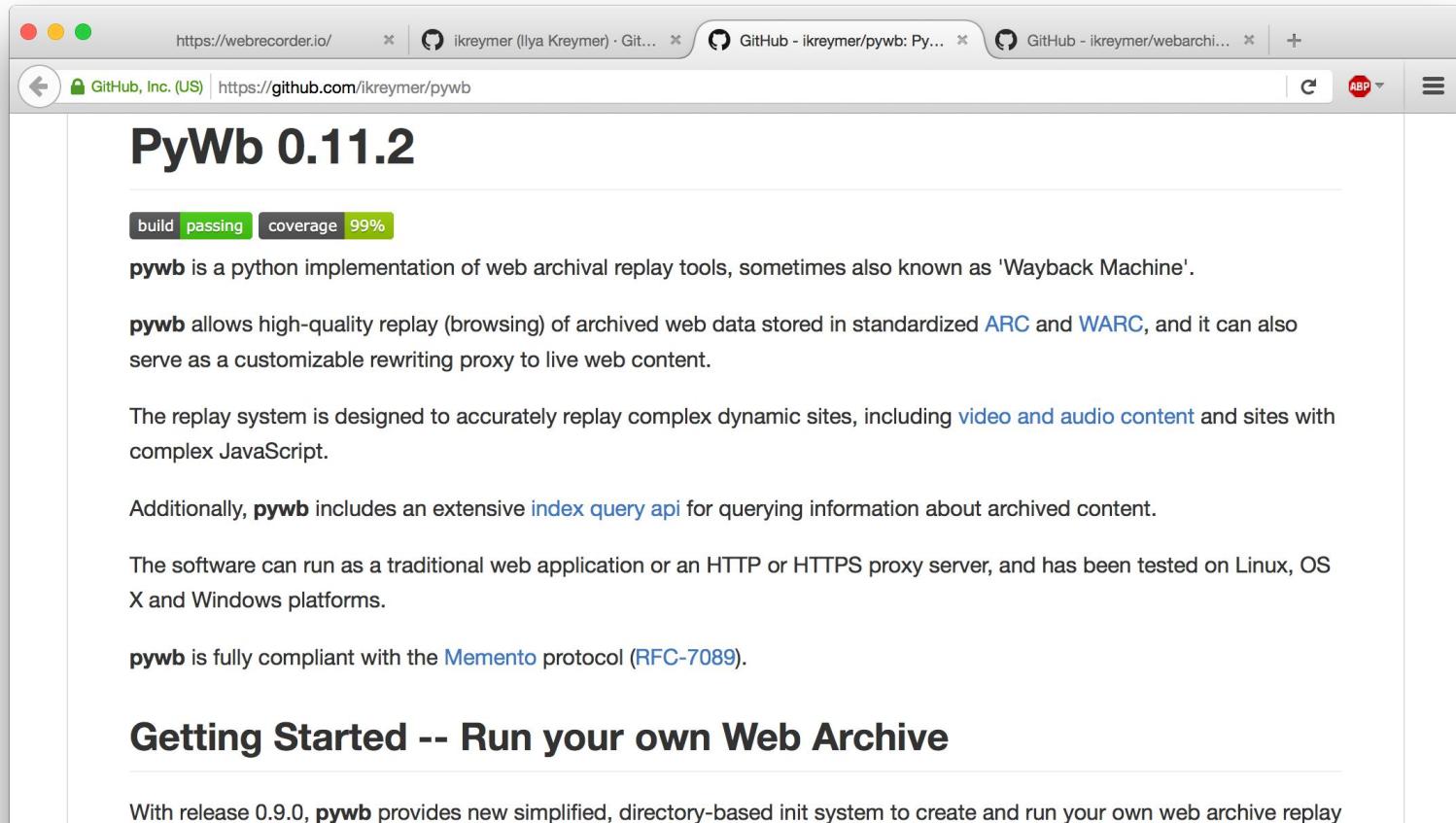
Public contributions

Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb

M W

[https://github.com/ikreymer : pywb](https://github.com/ikreymer/pywb)

build, index, replay web archives on your own computer



The screenshot shows a web browser window with four tabs open:

- https://webrecorder.io/
- ikreymer (Ilya Kreymer) · Git...
- GitHub - ikreymer/pywb: Py...
- GitHub - ikreymer/webarchi...

The main content area displays the PyWb 0.11.2 page. It features a title "PyWb 0.11.2" and a green "passing" build status badge. Below the title, a paragraph describes PyWb as a Python implementation of web archival replay tools. It highlights its ability to replay complex dynamic sites, support for ARC and WARC formats, and its use as a customizable proxy. The page also mentions an index query API for querying archived content and its compliance with the Memento protocol (RFC-7089). A section titled "Getting Started -- Run your own Web Archive" is present at the bottom.

PyWb 0.11.2

build passing coverage 99%

pywb is a python implementation of web archival replay tools, sometimes also known as 'Wayback Machine'.

pywb allows high-quality replay (browsing) of archived web data stored in standardized [ARC](#) and [WARC](#), and it can also serve as a customizable rewriting proxy to live web content.

The replay system is designed to accurately replay complex dynamic sites, including [video and audio content](#) and sites with complex JavaScript.

Additionally, **pywb** includes an extensive [index query api](#) for querying information about archived content.

The software can run as a traditional web application or an HTTP or HTTPS proxy server, and has been tested on Linux, OS X and Windows platforms.

pywb is fully compliant with the [Memento](#) protocol ([RFC-7089](#)).

Getting Started -- Run your own Web Archive

With release 0.9.0, **pywb** provides new simplified, directory-based init system to create and run your own web archive replay

2016-2017: Webrecorder technical development

- interoperability: integration for other methods
- pilot projects & testing, collaboration with users

Resources

The WARC format 1.1

- <https://iipc.github.io/warc-specifications/specifications/warc-format/warc-1.1/>

“Digital Social Memory” event (Livestream) Rhizome & New Museum

- <http://livestream.com/newmuseum/events/4837386/videos/112770420>

“Why (and How) Our Museum started collecting Vines”, John O’Shea

- <https://rhizome.org/editorial/2015/aug/6/why-museum-collect-vines/>

NFM Collection on Webrecorder

<https://webrecorder.io/NFM/11vines#records>

NDSR-NYC blog posts on Webrecorder

- installing webarchiveplayer & pywb: <http://ndsr.nycdigital.org/symmetrical-web-archiving-with-webrecorder-a-browser-based-tool-for-digital-social-memory-an-interview-with-ilya-kreymer/>
- interview with Ilya Kreymer: <http://ndsr.nycdigital.org/shared-conferences-diy-web-archives/>

thank you

questions?

morgan.mckeehan@rhizome.org
@anyformation

Access & Collaboration

“Man with a
Movie Camera:
The Global Remake”
Perry Bard, 2007-ongoing





Search as process, material, motif

“I'm Google”
Dina Kelberman,
2011-ongoing

