

artivity

Athanasios Velios

Sebastian Faubel

Moritz Eberl

LIBRE GRAPHICS

MEETING 2016

LONDON

15-18 APRIL

ual: university
of the arts
london

zewiodesk

LIGATUS 

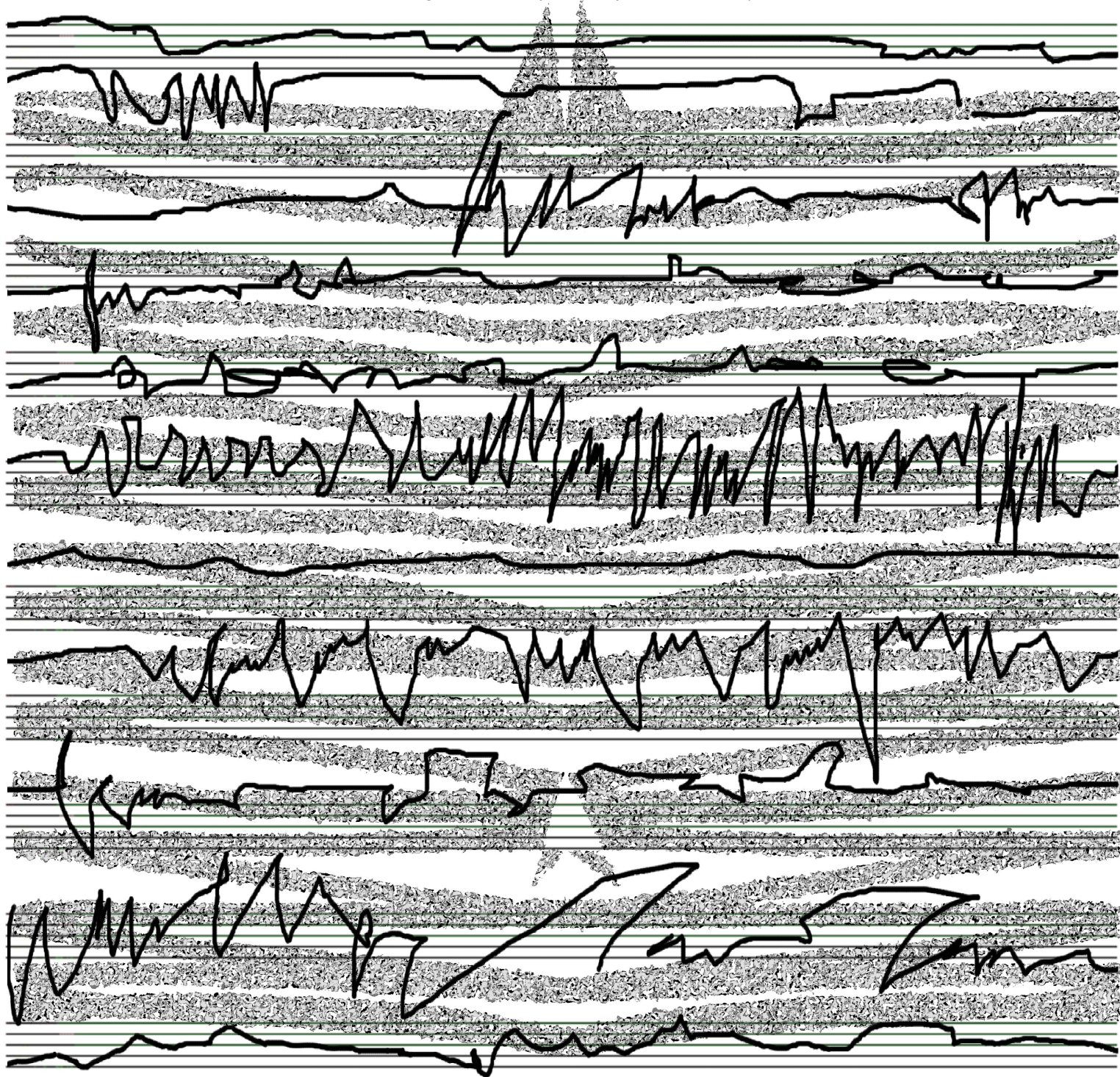
Jisc

The problem

Art is about the process not about the outcome



Nick Pezzillo: Jackson Pollock <https://flic.kr/p/PwuAx> (CC BY-NC-ND 2.0)



The solution

- Capture the process

ARTNEWS

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FEATURES — NOVEMBER 2012 —

POLLOCK PAINTS A PICTURE

BY *Robert Goodnough* POSTED 11/26/12 7:00 AM

In a visit to Jackson Pollock’s Long Island studio, a fellow artist chronicles a “ritual dance”

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Far out on Long Island, in the tiny village of Springs, with the ocean as background and in close contact with open, tree-studded fields where cattle graze peacefully, Jackson Pollock lives and paints. With the help of his wife, [Lee Krasner](#)—former Hofmann student and an established painter in her own right—he has remodeled a house purchased there to fit the needs of the way of life they have chosen, and a short distance away is a barn which has been converted into a studio. It is here that Pollock is engrossed in the strenuous job of creating his unique world as a painter.



Before settling on the Island, Pollock worked for ten years in a Greenwich Village studio. Intermittently he made trips across the country, riding freight trains or driving a Model A Ford, developing a keen awareness of vast landscape and open sky. “You get a wonderful view of the country from the top of a freight car,” he explains. Pollock loves the outdoors and has carried with him and into his painting a sense of the freedom experienced before endless





Jackson Pollock 51



The elusive FACS machine!

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 1,479  108

The solution

- Capture the process
 - observation → text
 - motion picture
- Making event
 - but not the method / research

The solution for digital art

- Everything managed on the desktop
 - art/design software
 - stored/modified files
 - online research
 - communication
- Capture
 - technique
 - method / research
 - output

The solution for digital art

- Everything managed on the desktop
 - art/design software
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- Capture
 - technique
 - method / research
 - output
- Automate it!

- [Project objectives](#)
- [Project summary](#)
- [Partners](#)
- [Publications](#)
- [Deliverables](#)
- [Open source development](#)
- [What others say](#)
- [Poster](#)
- [Flyer](#)
- [Contact](#)

- [Nepomuk development site](#)
- [SemanticDesktop.org](#)
- [Nepomuk-KDE](#)

NEPOMUK - The Social Semantic Desktop - FP6-027705

Networked Environment for Personalized, Ontology-based Management of Unified Knowledge

NEPOMUK brings together researchers, industrial software developers, and representative industrial users, to develop a comprehensive solution for extending the personal desktop into a collaboration environment which supports both the personal information management and the sharing and exchange across social and organizational relations.



Contact Information	
Name of coordinating person	Dr. Ansgar Bernardi
Coordinating Organization	DFKI GmbH - Knowledge Management Department
Email	mailto:info@nepomuk.semanticdesktop.org
Fax	+49 631 20575 102





The Zeitgeist Project

Overview Code Bugs Blueprints Translations Answers

Registered 2009-07-14 by [Siegfried Gevatter](#)

The Zeitgeist event aggregation framework and related projects.

Zeitgeist is an event aggregation framework for the user's activities and notifications (files opened, websites visited, conversations hold with other people, etc.) and makes the relevant information available to other applications.

This project groups together Zeitgeist and all other applications (graphical user interfaces, data sources for Zeitgeist, etc.) which are heavily based upon it.

To keep up-to-date with the latests developments in a user-understandable way see: <http://www.omgubuntu.co.uk/tag/zeitgeist/>

[Home page](#)

Project group information

Maintainer:

[Zeitgeist Project Team](#)

Driver:

[Seif Lotfy](#)

Bug tracker:

launchpad.net/

[Download RDF metadata](#)

Latest questions

[All questions](#)

[PPA For Zeitgeist?](#)

Posted on 2015-07-25

[Is Zeitgeist active developed now in 2015 ?](#)

Posted on 2015-01-11

[Howto Add applications/filetypes activity ?](#)

Posted on 2014-04-06

[XMP metadata](#)

Posted on 2013-11-28

[Not sure how to develop a web app upon this](#)

Posted on 2013-11-21

Projects

- [Activity Log Manager](#)
- [Autonomous Music Rating with Zeitgeist](#)
- [GNOME Activity Journal](#)
- [Sezen](#)
- [Zeitgeist Data-Sources](#)
- [Zeitgeist Datahub](#)
- [Zeitgeist Explorer](#)
- [Zeitgeist Extensions](#)
- [Zeitgeist Filesystem](#)
- [Zeitgeist Framework](#)
- [Zeitgeist Java](#)
- [Zeitgeist Project Website](#)
- [Zeitgeist Sharp](#)
- [gnome-journal](#)
- [libzeitgeist](#)

Get Involved

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[Ask a question](#) ➔

[Help translate](#) ➔

[Register a blueprint](#) ➔

Announcements

Zeitgeist 0.9.16 "Experience" released! on 2015-07-08

Hey everyone, on behalf of the Zeitgeist team I am happy to announce the rele...

Activity Log Manager 0.9.7 released on 2013-07-10

On behalf of the Zeitgeist Team I am happy to announce Activity Log Manager 0...

Activity Log Manager 0.9.6 released on 2013-07-04

On behalf of the Zeitgeist Team I am happy to announce Activity Log Manager 0...

Zeitgeist 0.9.14 "Diamond" released! on 2013-06-18

Hey everyone, on behalf of the Zeitgeist team I am happy to announce the rele...

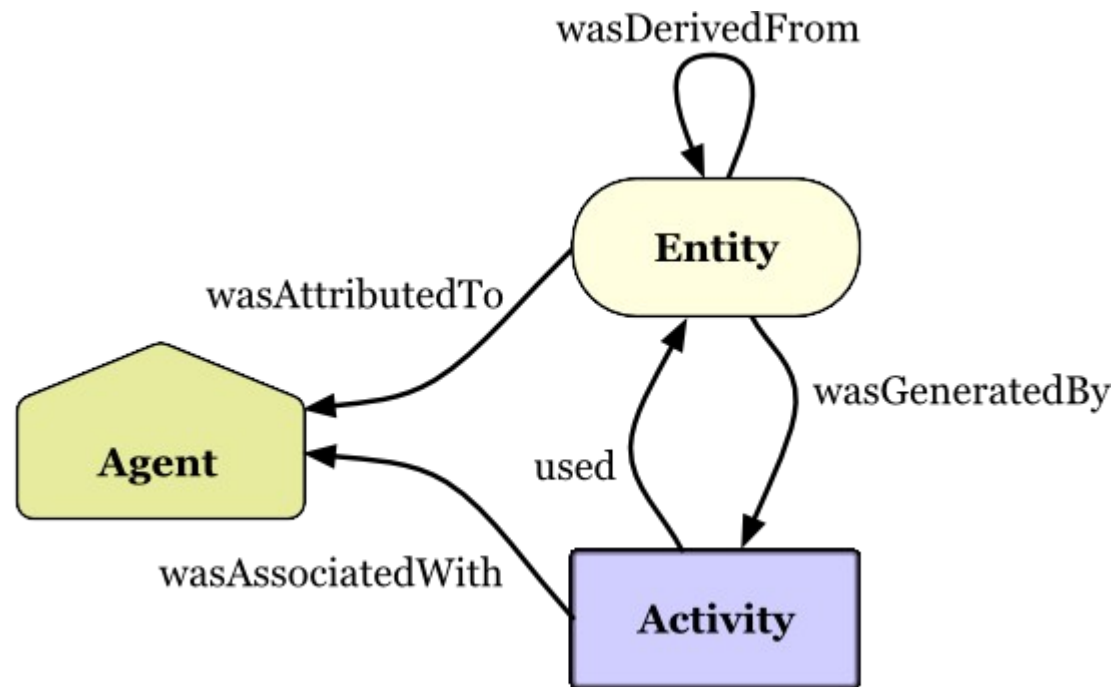
Zeitgeist Explorer 0.2 "Shiny" Released on 2013-06-14

Hey everyone, on behalf of the Zeitgeist team I am happy to announce the rele...

[Read all announcements](#)



W3C PROV ontology





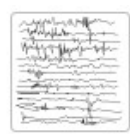
as long as the band plays and ...



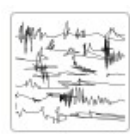
drawing.svg



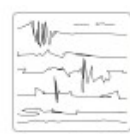
drawing19.svg



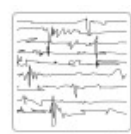
drawing20.svg



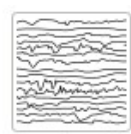
drawing21.svg



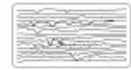
drawing22.svg



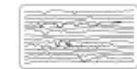
drawing23.svg



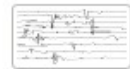
drawing24.svg



drawing25.svg



drawing26.svg



drawing27.svg



drawing28.svg



drawing32.svg



drawing43.svg



drawing44.svg



drawing45.svg



drawing46.svg



drawing47.svg



drawing48.svg



drawing49.svg



drawing50.svg



drawing51.svg



drawing-1.svg



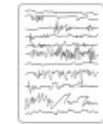
drawing-2.svg



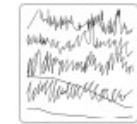
drawing-3.svg



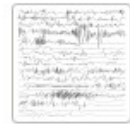
drawing-4.svg



drawing-5.svg



drawing-6.svg



drawing-7.svg



drawing-8svg.svg



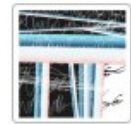
drawing-9.svg



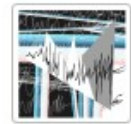
drawing-10.svg



drawing-11.svg



drawing-12.svg



drawing-13.svg



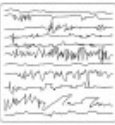
drawing-14.svg



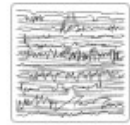
drawing-15.svg



drawing-16.svg



drawing-17.svg



drawing-18.svg



drawing-29.svg



drawing-30.svg



drawing-31.svg



drawing-33.svg



drawing-34.svg



drawing-35.svg



drawing-36.svg



drawing-37.svg



drawing-39.svg



drawing-40.svg



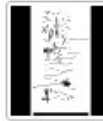
drawing-41.svg



drawing-42.svg



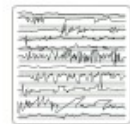
elective psychopathy.svg



for the minds of people ar...



sheetdrawing-15.svg



sheetdrawing-17.svg



sheetdrawing-18.svg



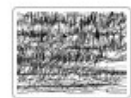
silkscript.svg



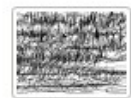
those little pills.svg



three steps.svg



trial



try2



wave



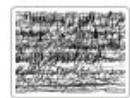
wave2



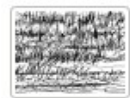
wave3



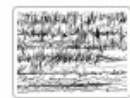
wave4



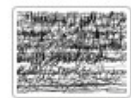
wave5



wave6



wave7

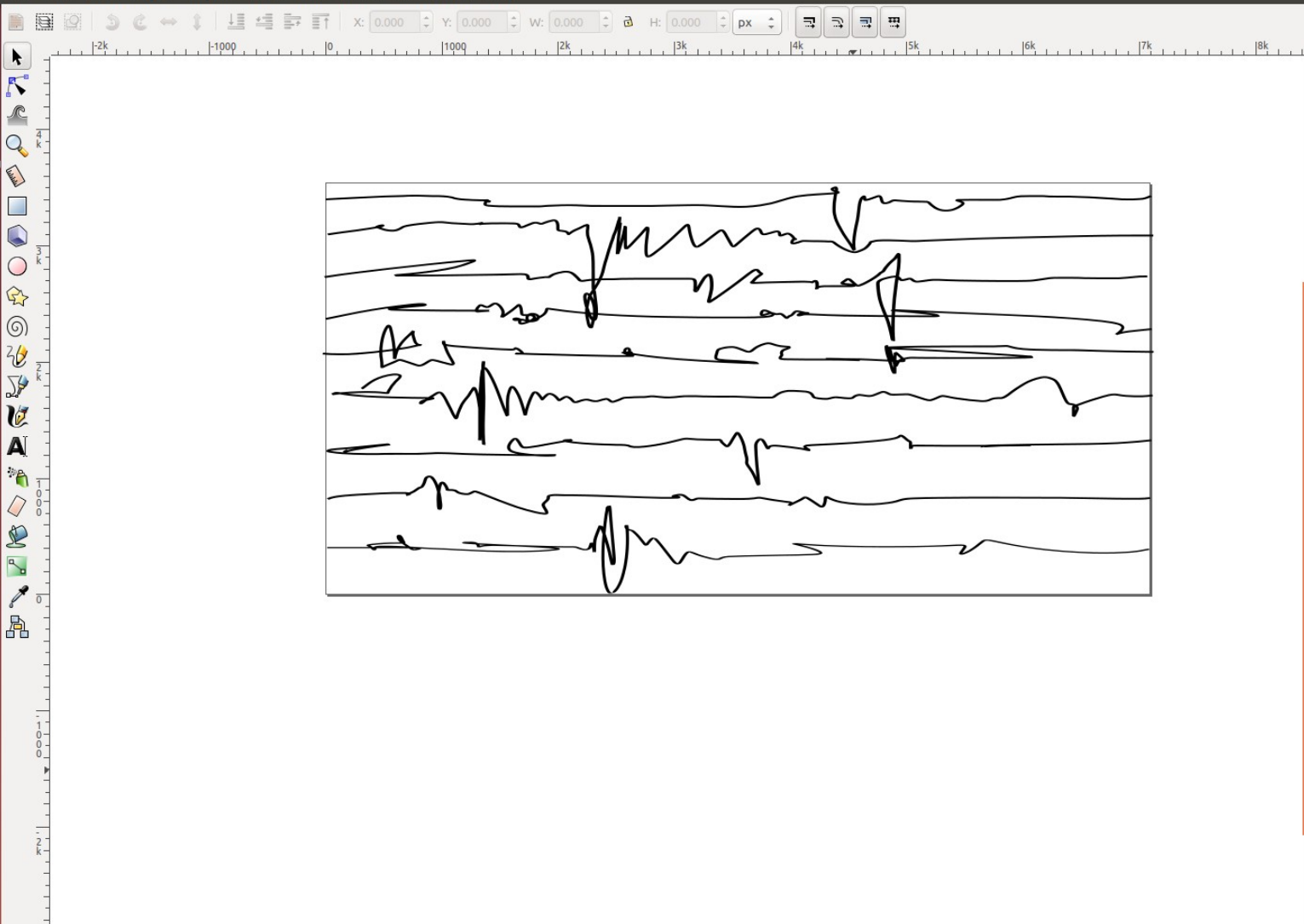


wave8


```
prefix nfo: <http://www.semanticdesktop.org/ontologies/2007/03/22/nfo#>
prefix prov: <http://www.w3.org/ns/prov#>

select distinct ?fileUrl ?creationDate
from <http://localhost:8890/activity/1.0/{USERNAME}/activities>
where
{
    ?editing prov:used ?file .

    ?file a nfo:FileDataObject .
    ?file nfo:fileUrl ?fileUrl .
    ?file nfo:fileCreated ?creationDate .
}
order by desc(?creationDate)
```



Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

x0: 0.000 y0: 0.000
 x1: 7086.614 y1: 3543.307
 Width: 7086.614 Height: 3543.307
 Units: px

Image size

Width: 2000 pixels at 25.40 dpi
 Height: 1000 pixels at 25.40 dpi

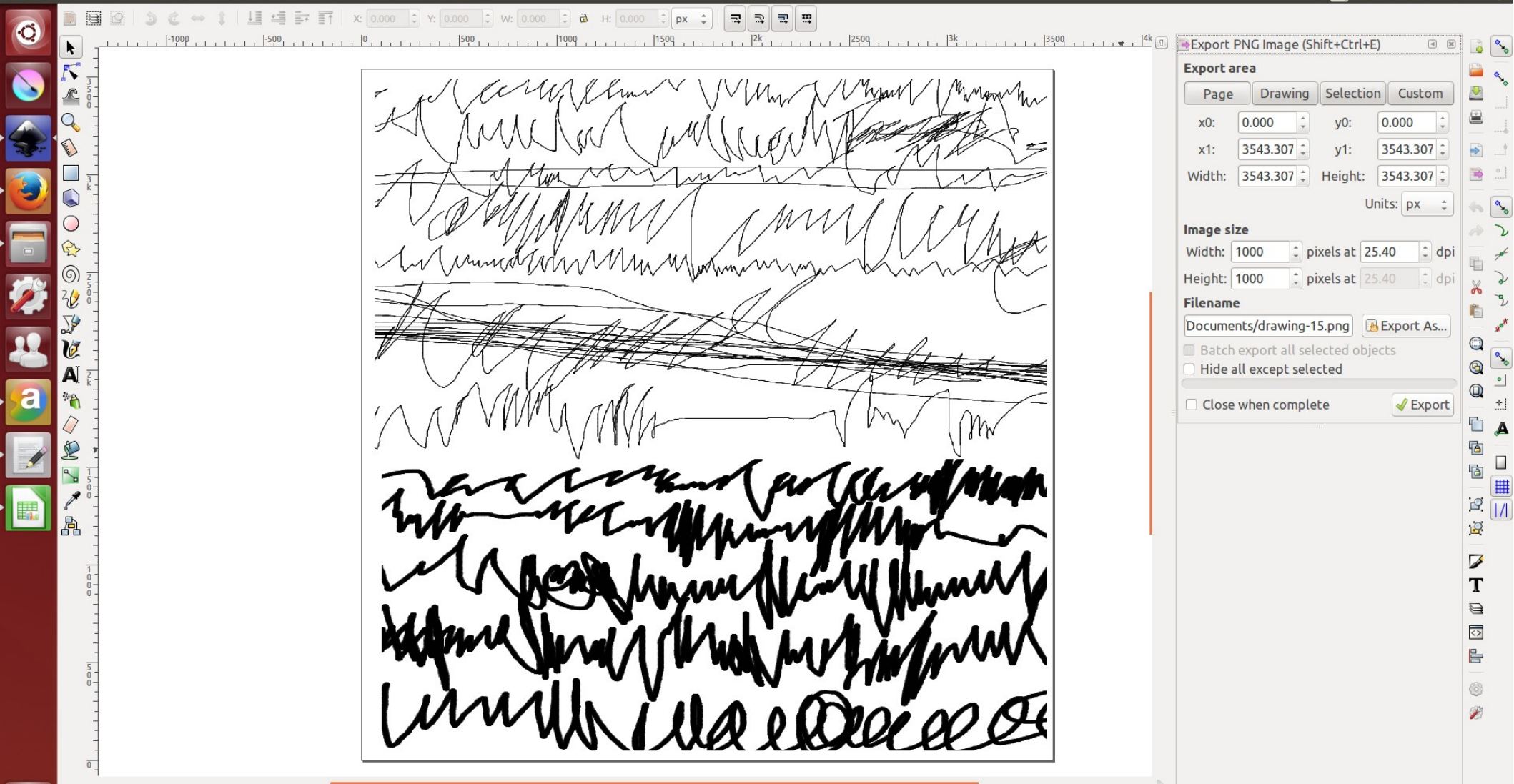
Filename

/Documents/drawing27.png Export As...

Batch export all selected objects
 Hide all except selected
 Close when complete

Fill: N/A Stroke: N/A O: 0 Layer 1 No objects selected. Click, Shift+click, Alt+scroll mouse on top of objects, or drag around objects to select.

X: 4541.65 Y: -1527.35 Z: 12%



Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

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 Width: 3543.307 Height: 3543.307
 Units: px

Image size

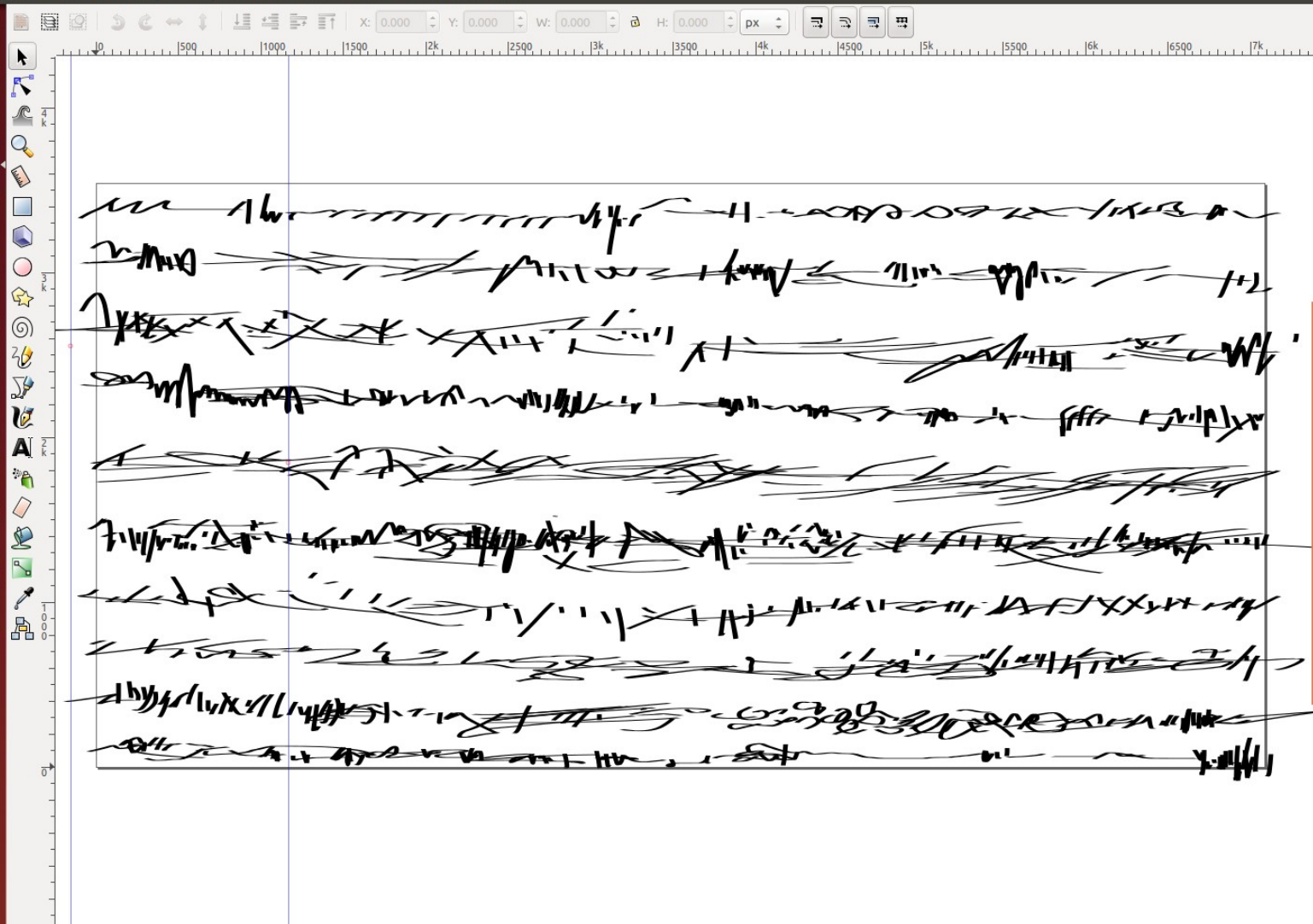
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 Height: 1000 pixels at 25.40 dpi

Filename

Documents/drawing-15.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete Export



Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

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 Width: 7086.614 Height: 3543.307
 Units: px

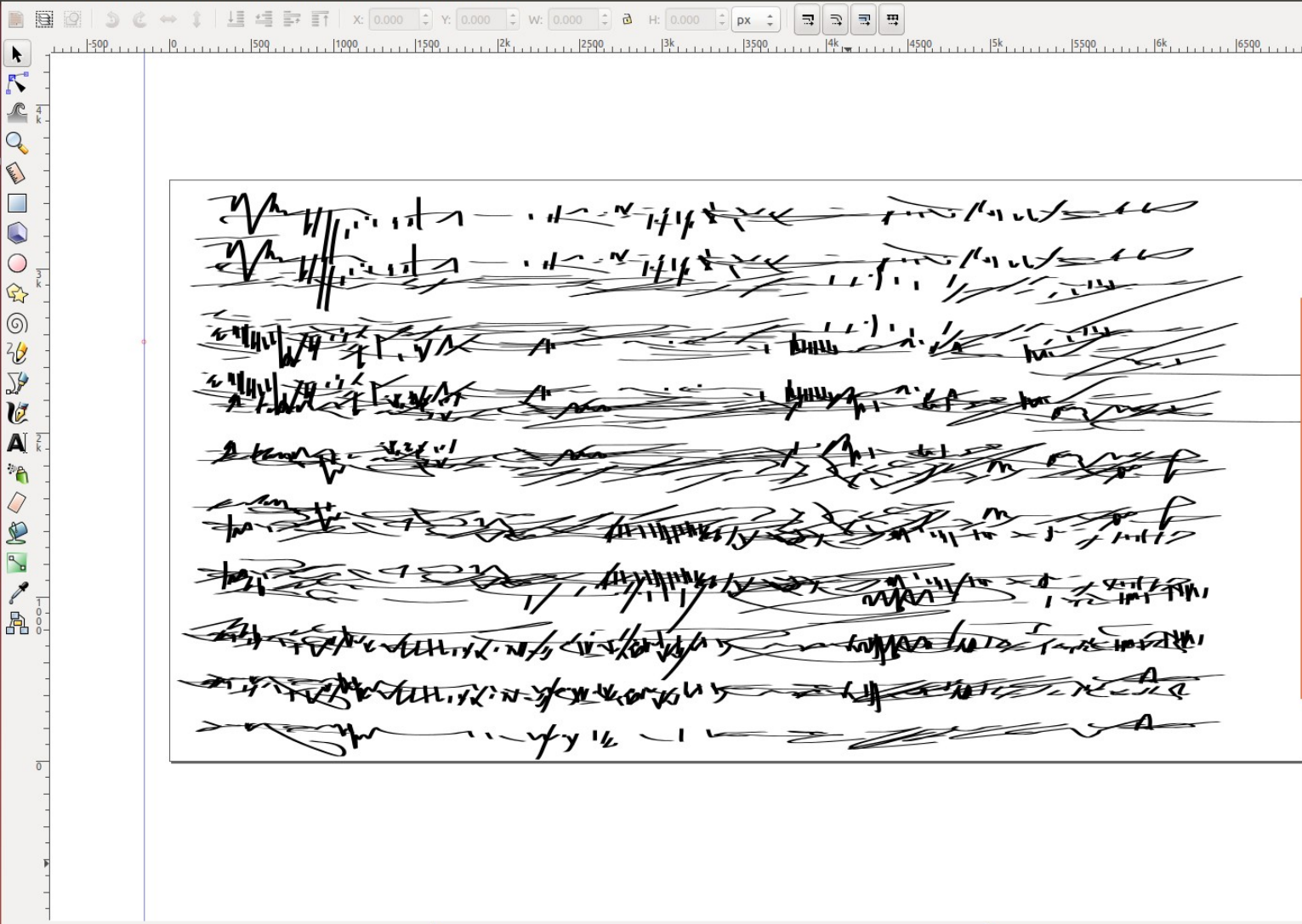
Image size
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 Height: 1000 pixels at 25.40 dpi

Filename
 Documents/drawing-31.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete





Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

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 Width: 7086.614 Height: 3543.307
 Units: px

Image size

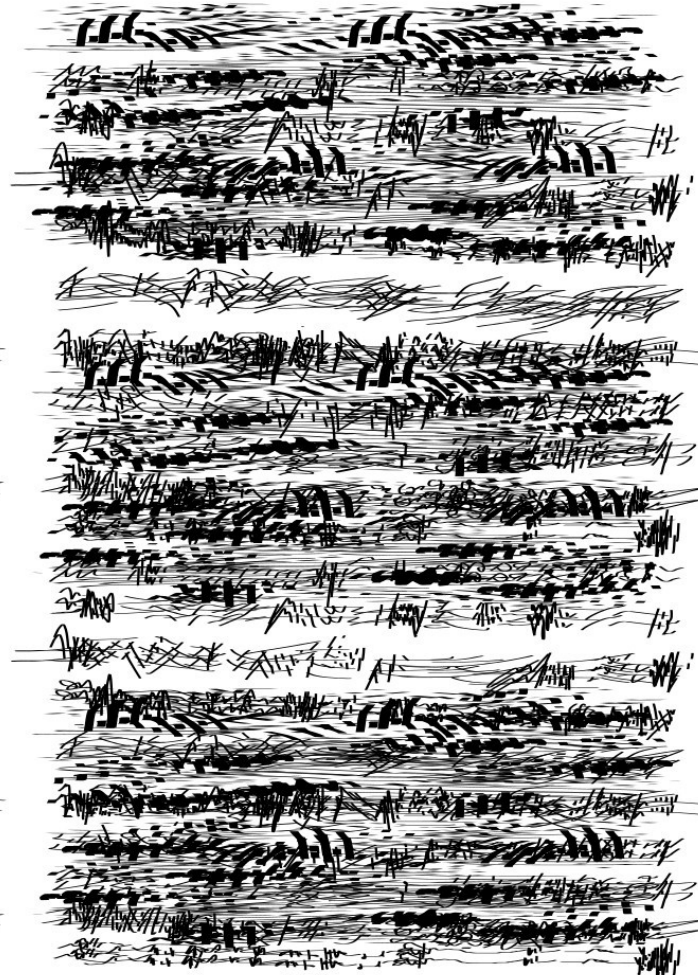
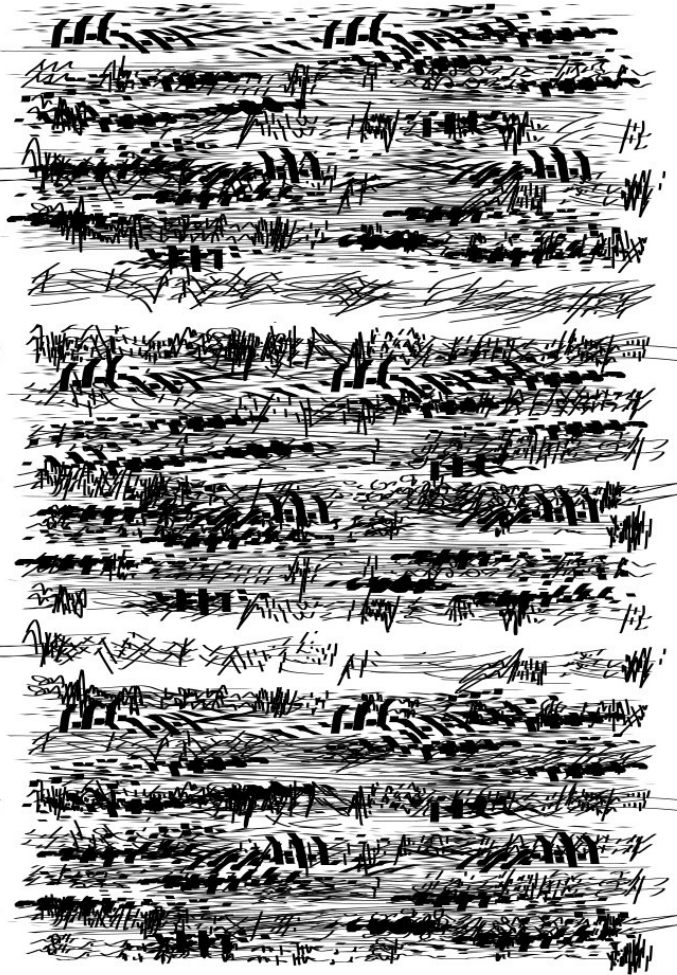
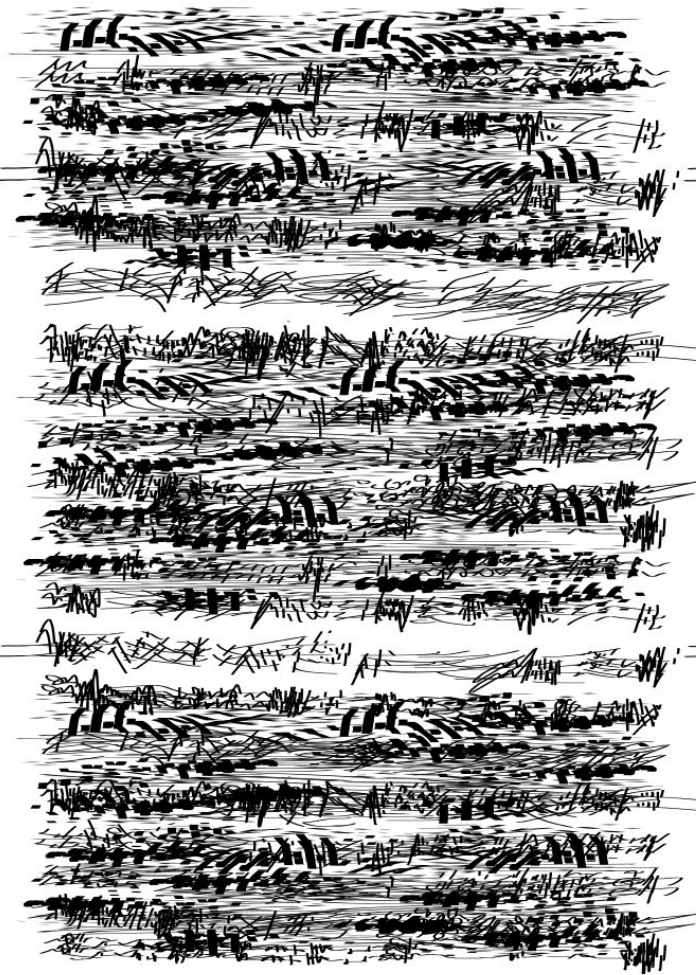
Width: 2000 pixels at 25.40 dpi
 Height: 1000 pixels at 25.40 dpi

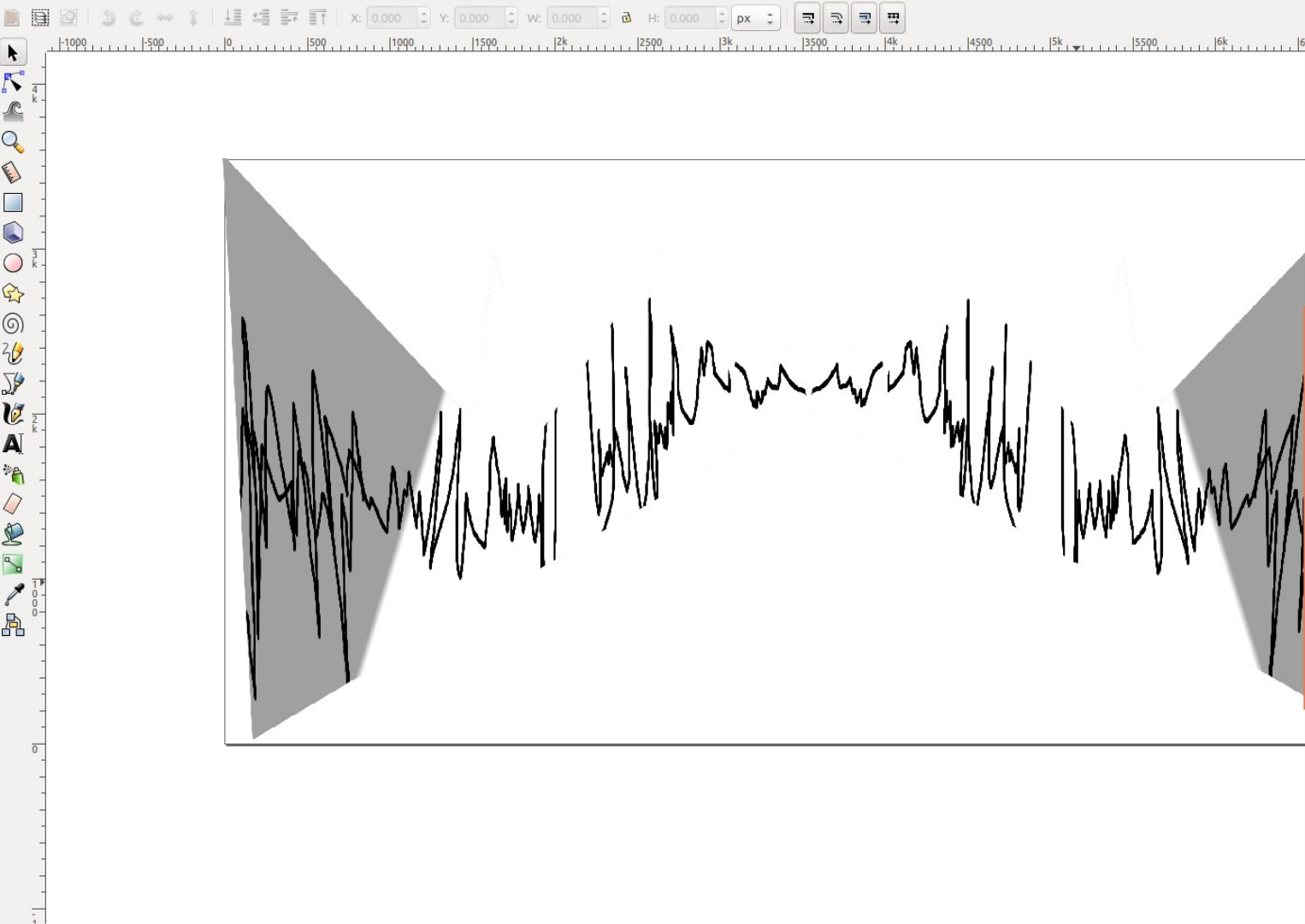
Filename

Documents/drawing-40.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete Export





Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

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 x1: 7086.614 y1: 3543.307
 Width: 7086.614 Height: 3543.307
 Units: px

Image size

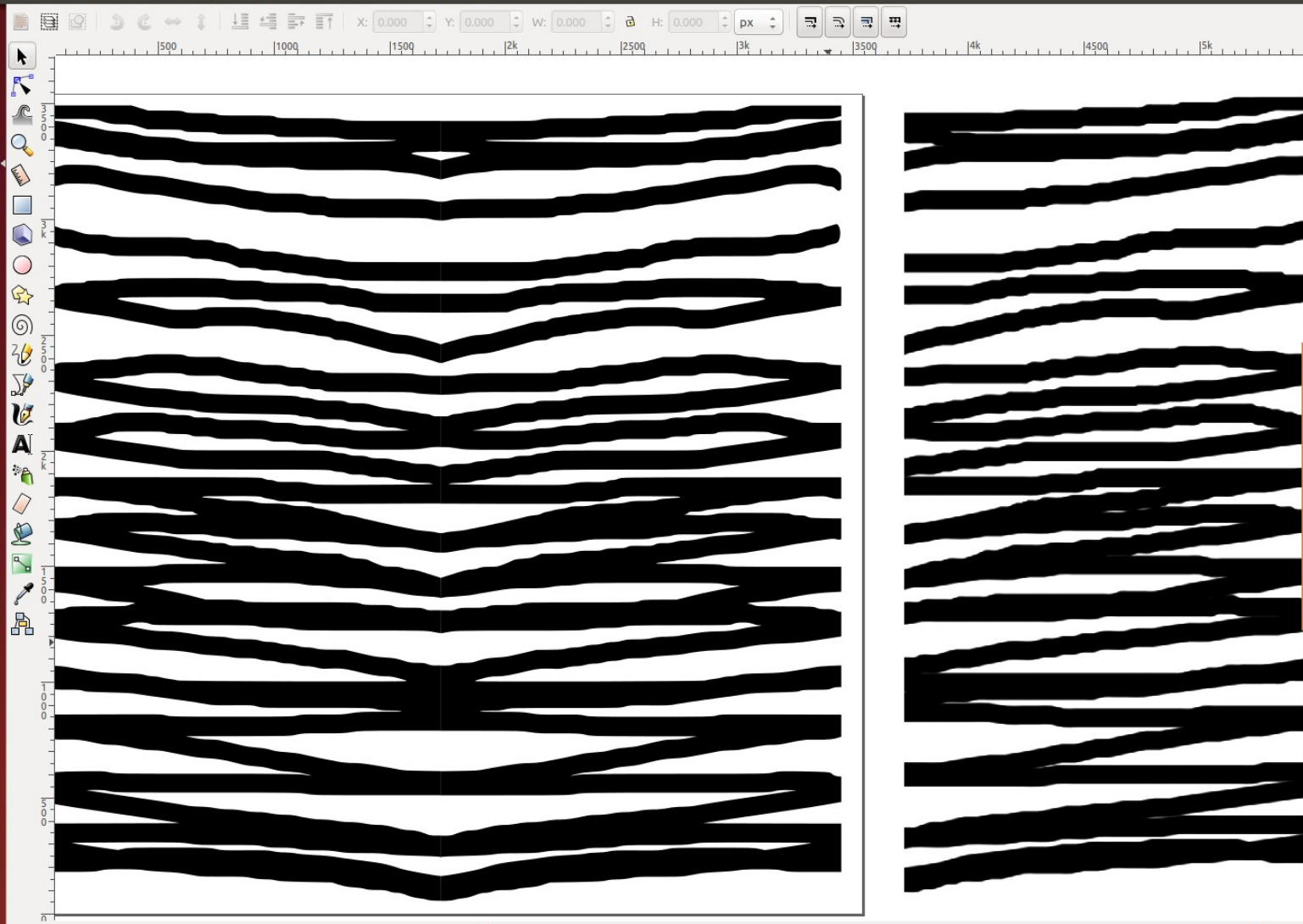
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Filename

Documents/drawing-14.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete



Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

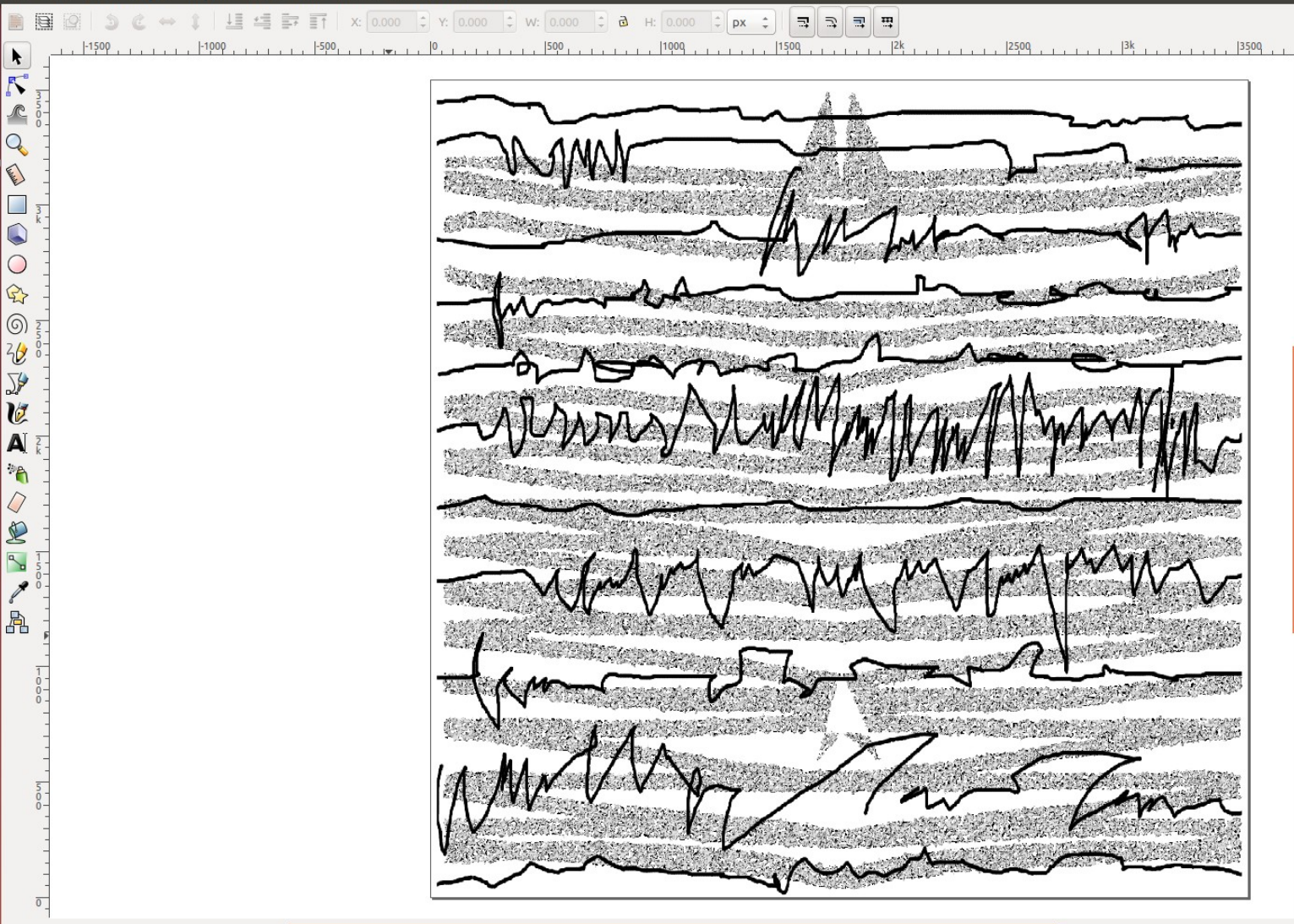
x0: 0.000 y0: 0.000
 x1: 3543.307 y1: 3543.307
 Width: 3543.307 Height: 3543.307
 Units: px

Image size
 Width: 1000 pixels at 25.40 dpi
 Height: 1000 pixels at 25.40 dpi

Filename
 Documents/drawing-10.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete



Export PNG Image (Shift+Ctrl+E)

Export area

Page Drawing Selection Custom

x0: 0.000 y0: 0.000
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 Width: 3543.307 Height: 3543.307
 Units: px

Image size

Width: 1000 pixels at 25.40 dpi
 Height: 1000 pixels at 25.40 dpi

Filename

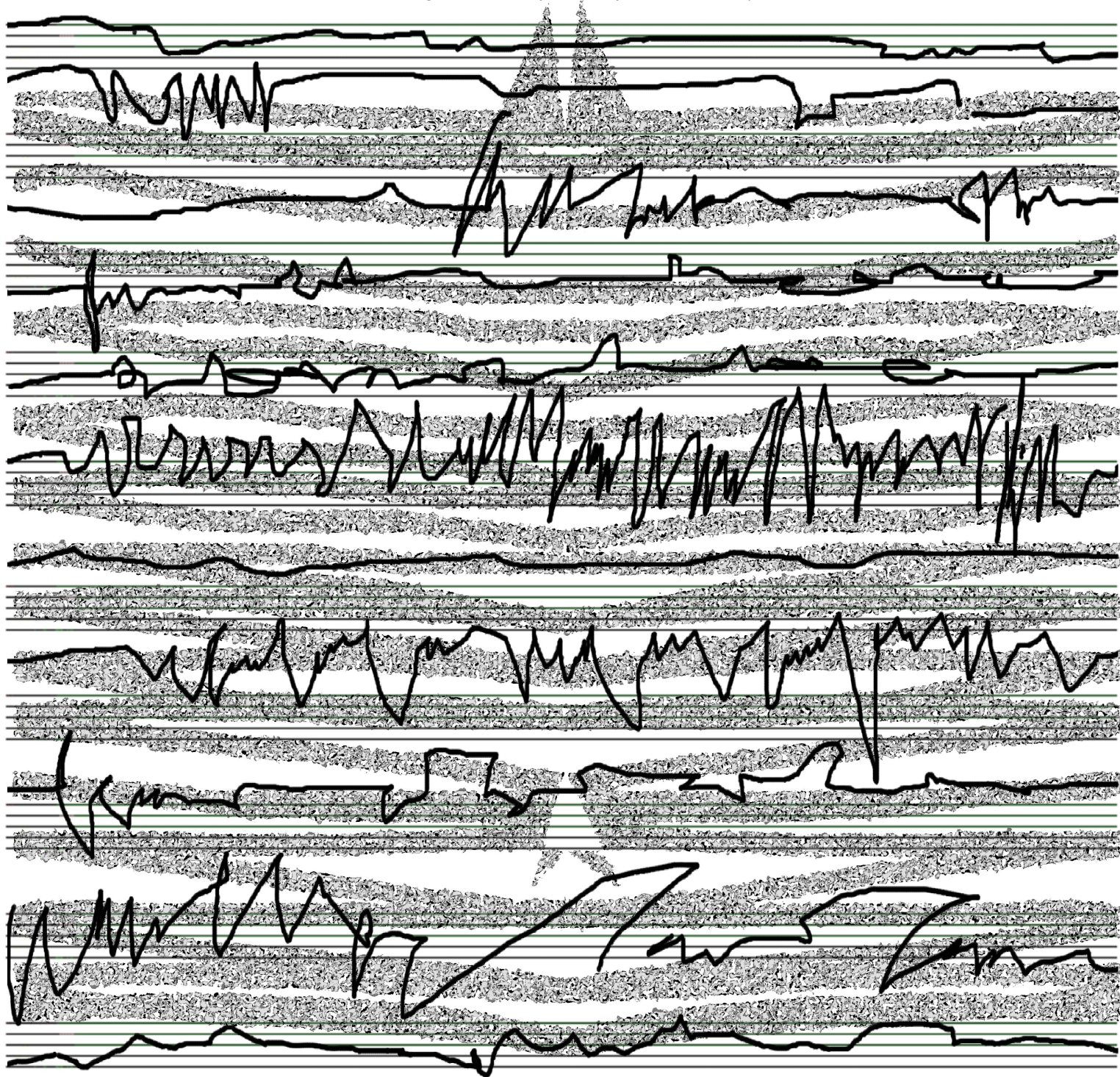
Documents/drawing-18.png Export As...

Batch export all selected objects
 Hide all except selected

Close when complete

Fill: N/A Stroke: N/A o: 0 •Layer 1 No objects selected. Click, Shift+click, Alt+scroll mouse on top of objects, or drag around objects to select.

X: -173.75 Y: 1131.37 Z: 25%



```
prefix nfo: <http://www.semanticdesktop.org/ontologies/2007/03/22/nfo#>
prefix prov: <http://www.w3.org/ns/prov#>

select ?accessTime ?page ?fileUrl
from <http://localhost:8890/artivity/1.0/{USERNAME}/activities>
from <http://localhost:8890/artivity/1.0/{USERNAME}/activities/web>
where
{
    ?file a nfo:FileDataObject .
    ?file nfo:fileUrl ?fileUrl .

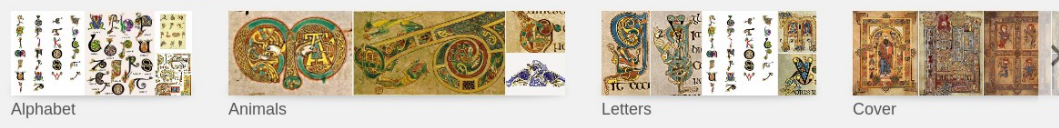
    ?editing prov:used ?file .
    ?editing prov:startedAtTime ?editingStart .
    ?editing prov:endedAtTime ?editingEnd .

    ?page a nfo:WebDataObject .

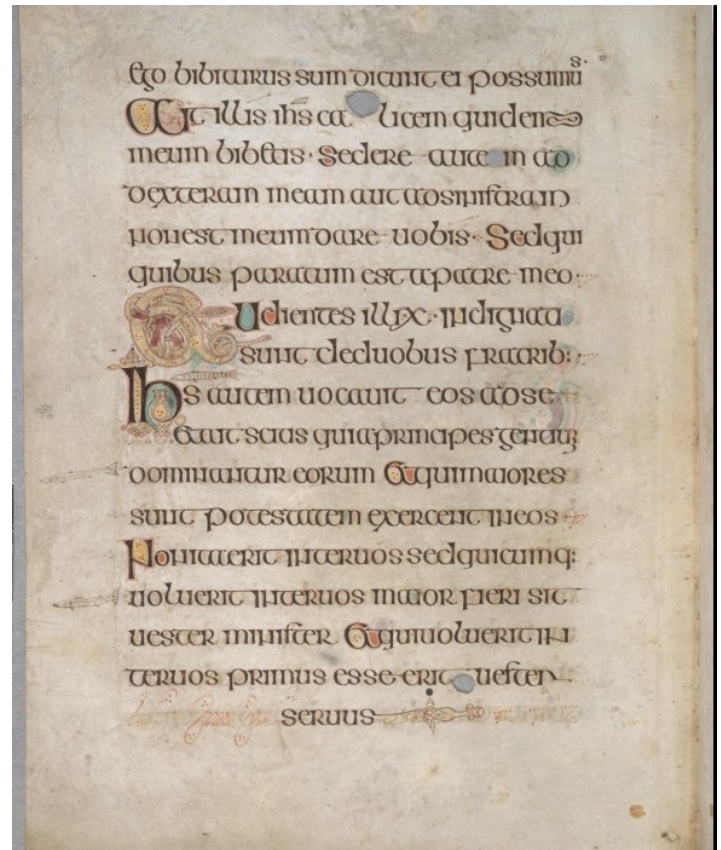
    ?browsing prov:qualifiedUsage ?pageUsage .

    ?pageUsage prov:entity ?page .
    ?pageUsage prov:atTime ?accessTime .

    filter(?editingStart <= ?accessTime && ?accessTime <= ?editingEnd)
}
order by desc(?accessTime) limit 50
```

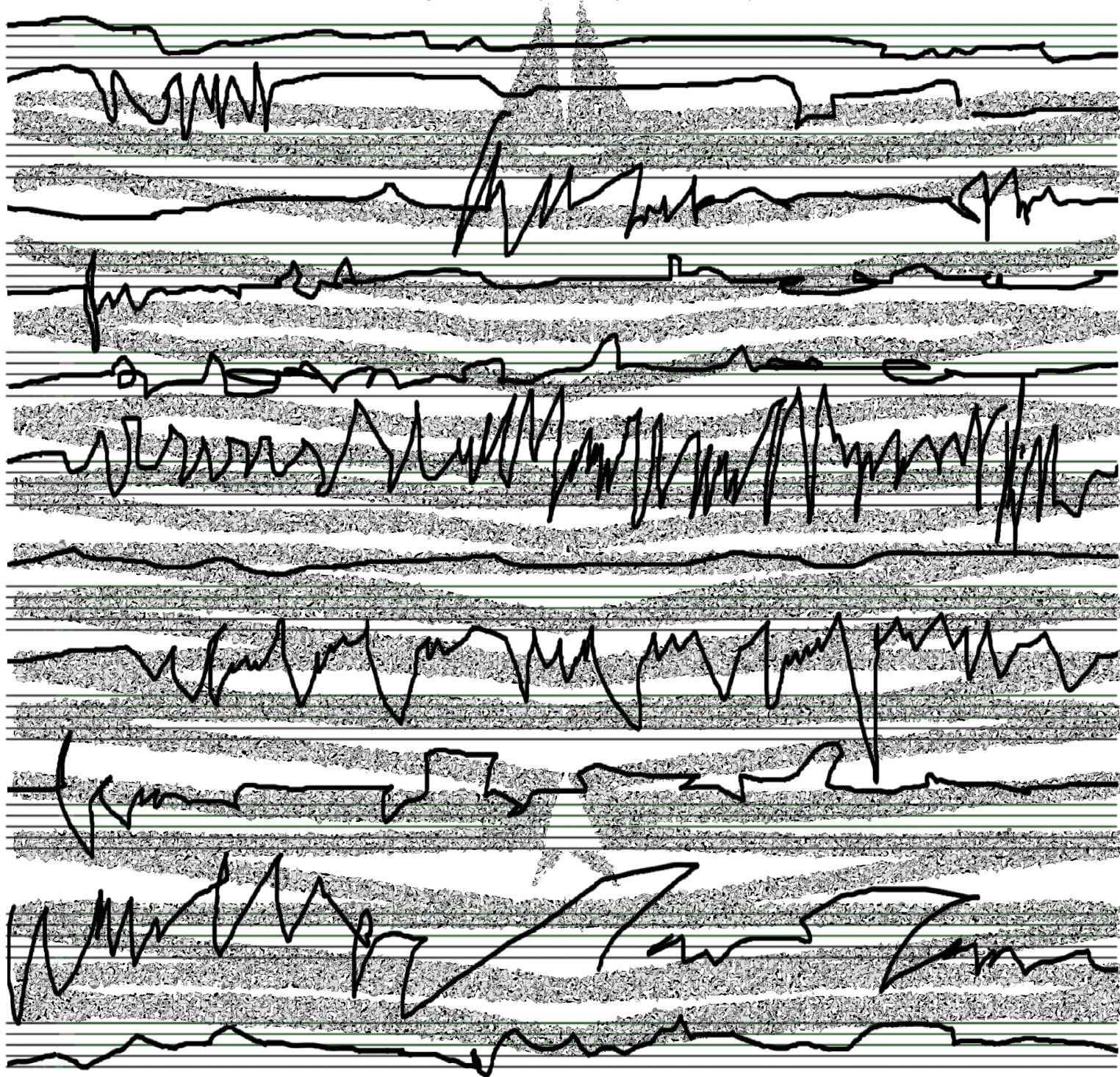



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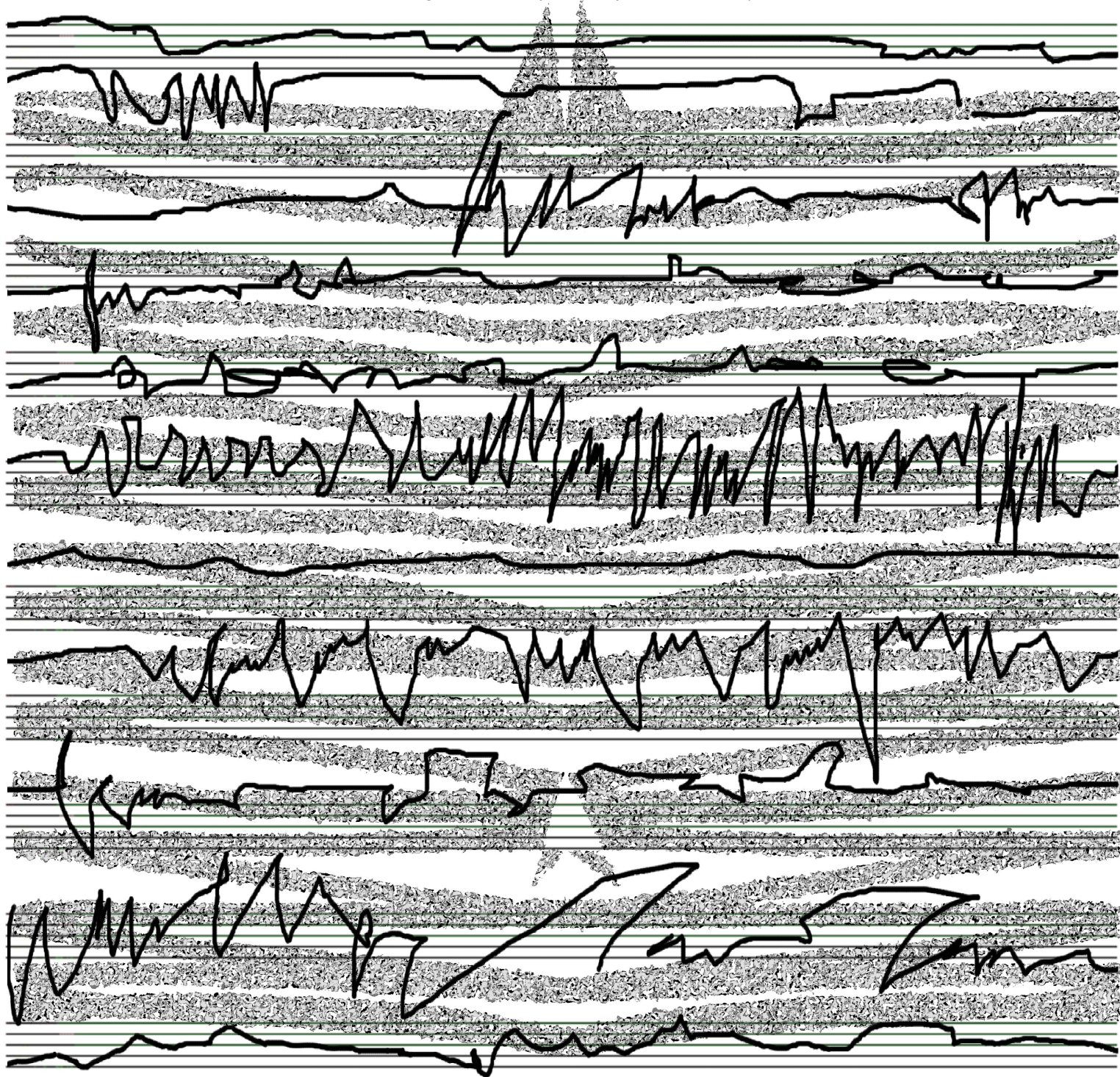
The Book of Kells







(wifi – GPS data)



Potential answers

- One artist over time
 - development of work
 - development of technique
- Many artists
 - overview of current trends
 - in an organisation/studio/class/department
- Many artists over time
 - Trends in digital arts over time
 - Trends in methods and online research

Who cares?

- Artists
 - self-archiving
- Researchers interested in art history
 - data about context – mode of work
- Researchers interested in technique
 - data about software tools and settings
 - authenticity of digital art

Who else?

- Invoicing for freelancers / design studios
 - time spent of projects – people involved – resources used
- Group design
 - attribution – justification – annotation
- University administration
 - provide data for REF
- Teaching / learning
 - share instructions – automated assessment – evaluate exercises
- **Developers of creative software**
 - **find out about the popularity / use of features**

artivity

Topics

Current Release

- Apps
- Features
- Platform Support
- Architecture

Upcoming Release

- Architecture
- Features
- Platform Support

Activity Explorer

Graphical User Interface for viewing Activity data.

Recently used files

Review file data

Export file data

	File	Editing Time	Last Used
?	2london.jpg	1:51:29	Tue, 12:12
	test.svg	1:44:07	Tue, 12:10
	Artivity Krita.kra	0:36:52	Tue, 11:21
?	Screenshot from 2015-09-24 14:45:16.png	0:00:46	Mon, 02:27
?	Krita Plugin.kra	0:03:21	Mon, 02:25
	test16.svg	0:00:12	Fri, 02:38
	test12.svg	0:00:22	Fri, 02:21
	test10.svg	0:00:10	Fri, 12:43
	test5.svg	0:00:48	Fri, 11:41
	test1.svg	0:01:56	Fri, 11:27

Activity Explorer

Graphical User Interface for viewing Activity data.

Recently used files

Review file data

Export file data

test.svg - Inkscape

test.svg
297mm x 210mm Inkscape
/home/sebastian/Documents

Statistics History Notes

Tuesday, October 27, 2015

Time	Activity	Data
16:31:23	Edit	1
13:13:27	Save	
13:13:23	Edit	Flip horizontally scale(-1,1)
13:13:19	Edit	Ungroup
13:13:03	Edit	Scale matrix(1.3179462,0,0,1.31794
13:12:39	Edit	Align translate(0,-34.963934)
13:12:34	Edit	Set fill color to none none
13:12:31	Edit	Set stroke color from swatch #ffffff
13:12:28	Edit	Align 526.18109
13:12:28	Edit	Align 680.31494
13:12:22	Edit	Transform by toolbar 355.57349
13:12:12	Edit	Create ellipse
13:11:58	Edit	Set text style normal
13:11:55	Edit	Set text style hold

X: 371,74
Y: 993,99 Z: 50%

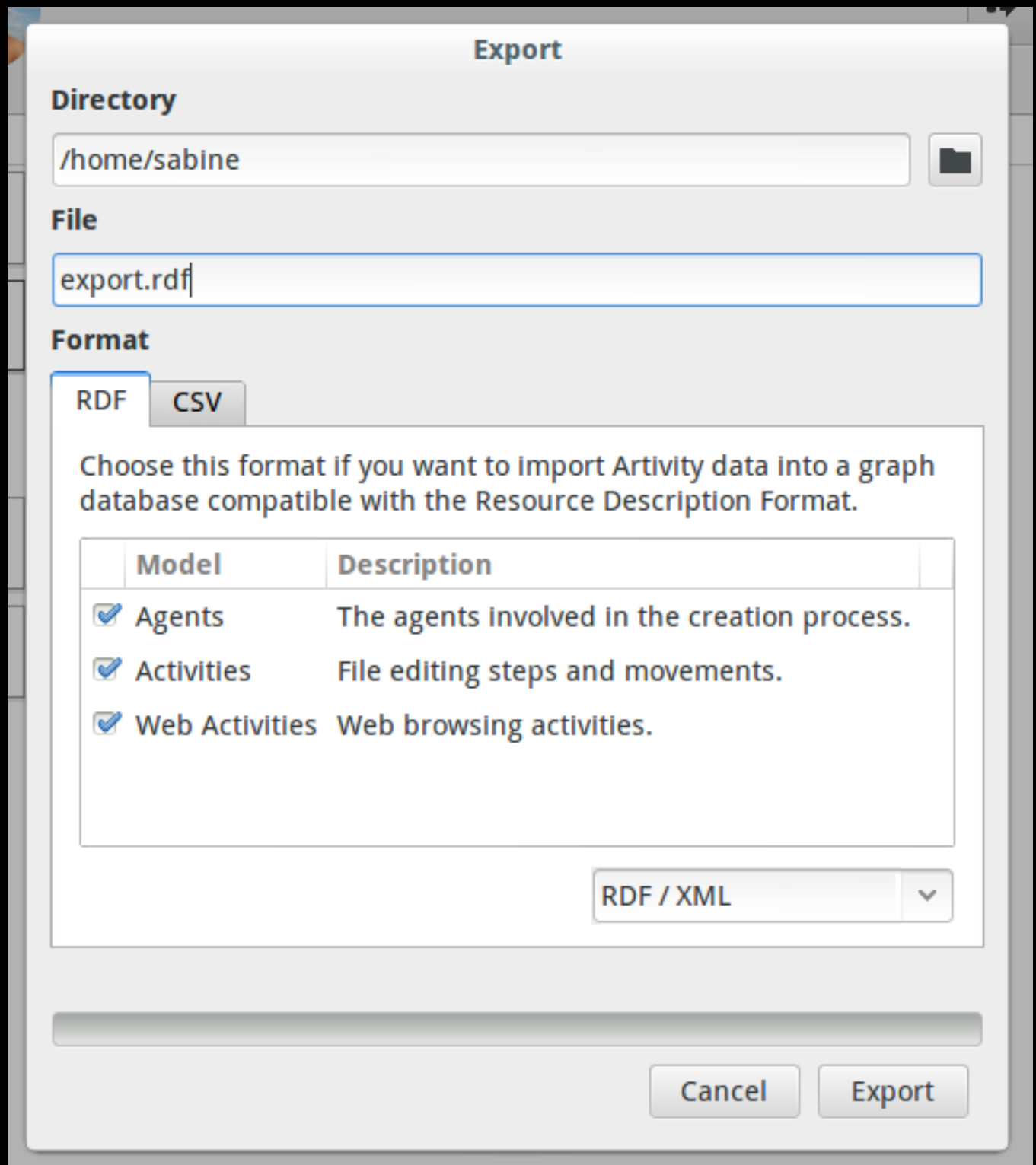
Activity Explorer

Graphical User Interface for viewing Activity data.

Recently used files

Review file data

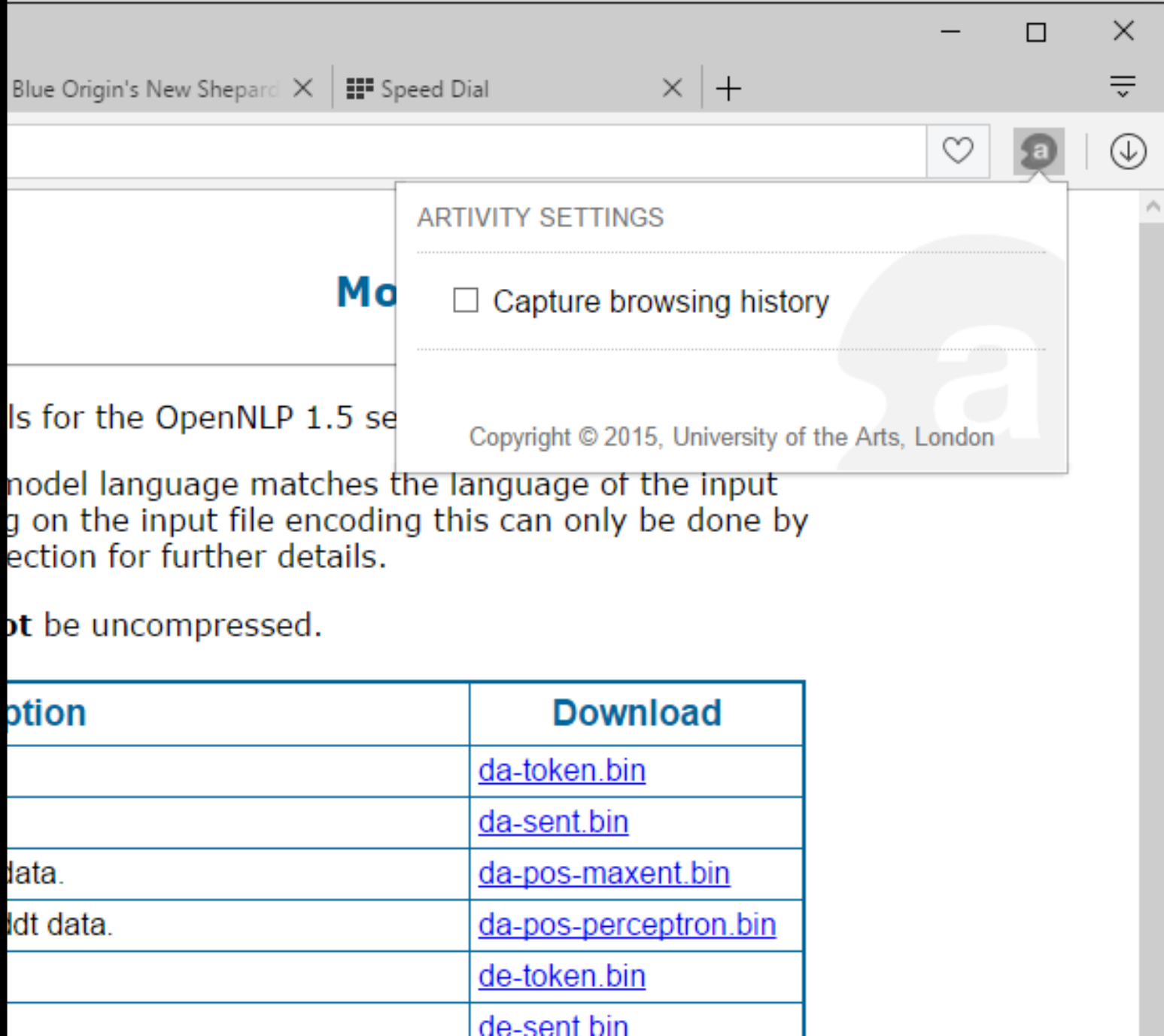
Export file data



Browser Extensions

Log browser history into Artivity.

Toggle logging



Blue Origin's New Shepard X | Speed Dial

ARTIVITY SETTINGS

Capture browsing history

Copyright © 2015, University of the Arts, London

Mo

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model language matches the language of the input
g on the input file encoding this can only be done by
ection for further details.

ot be uncompressed.

option	Download
	da-token.bin
	da-sent.bin
data.	da-pos-maxent.bin
ldt data.	da-pos-perceptron.bin
	de-token.bin
	de-sent bin

Platform Support

Operating Systems



Creative Tools



Web Browsers



Architecture (Current)

FRONTENDS

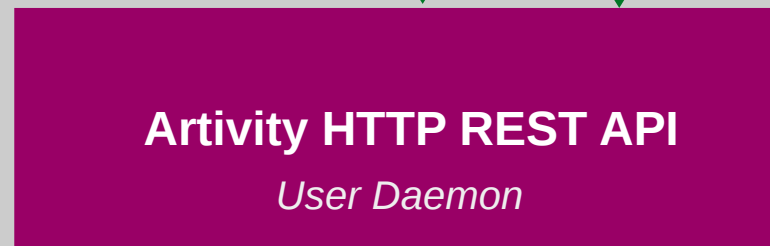


SPARQL

JSON

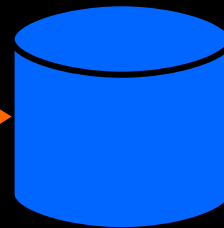
N3, libartivity (C++)

MIDDLEWARE

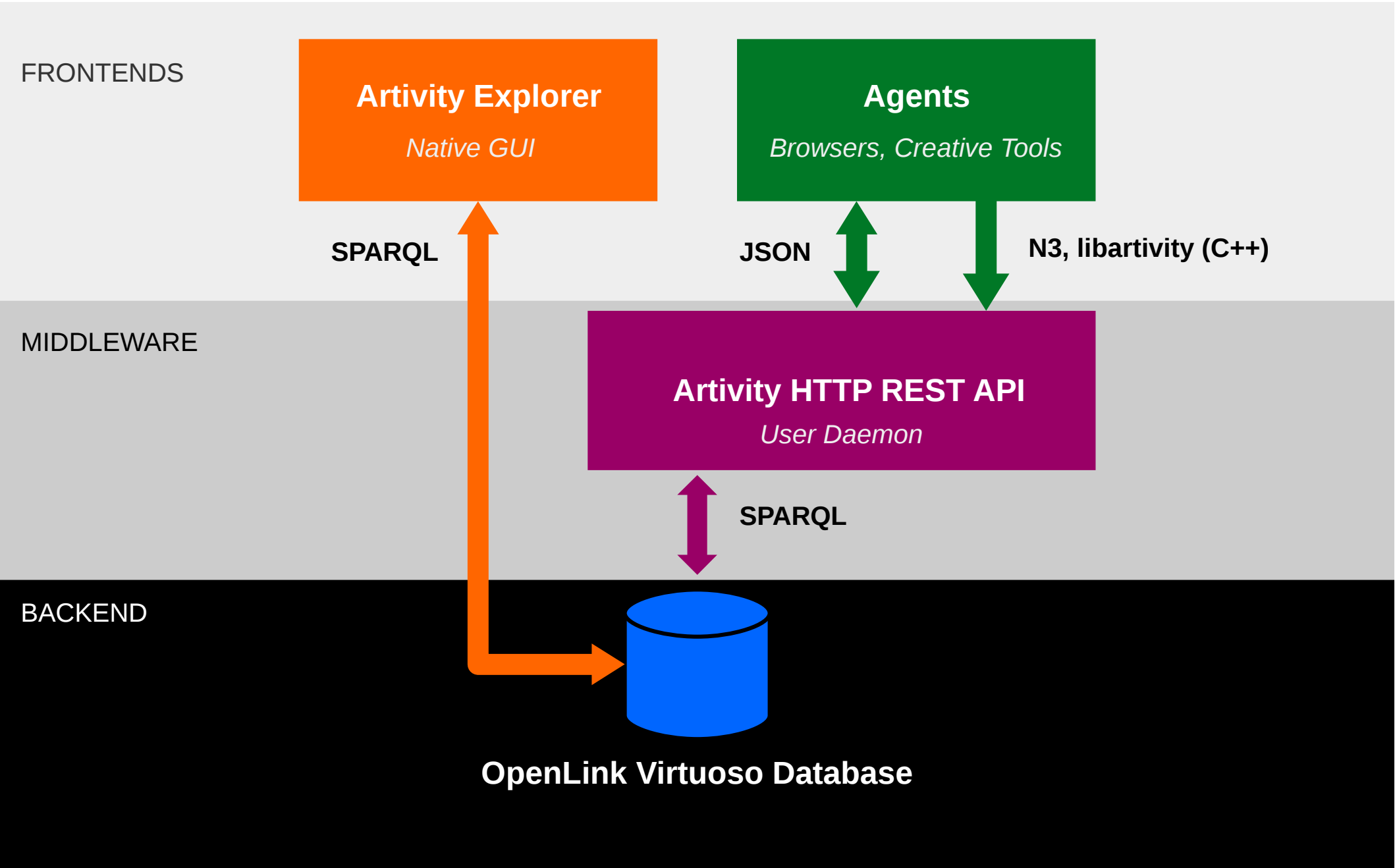


SPARQL

BACKEND



OpenLink Virtuoso Database



Topics

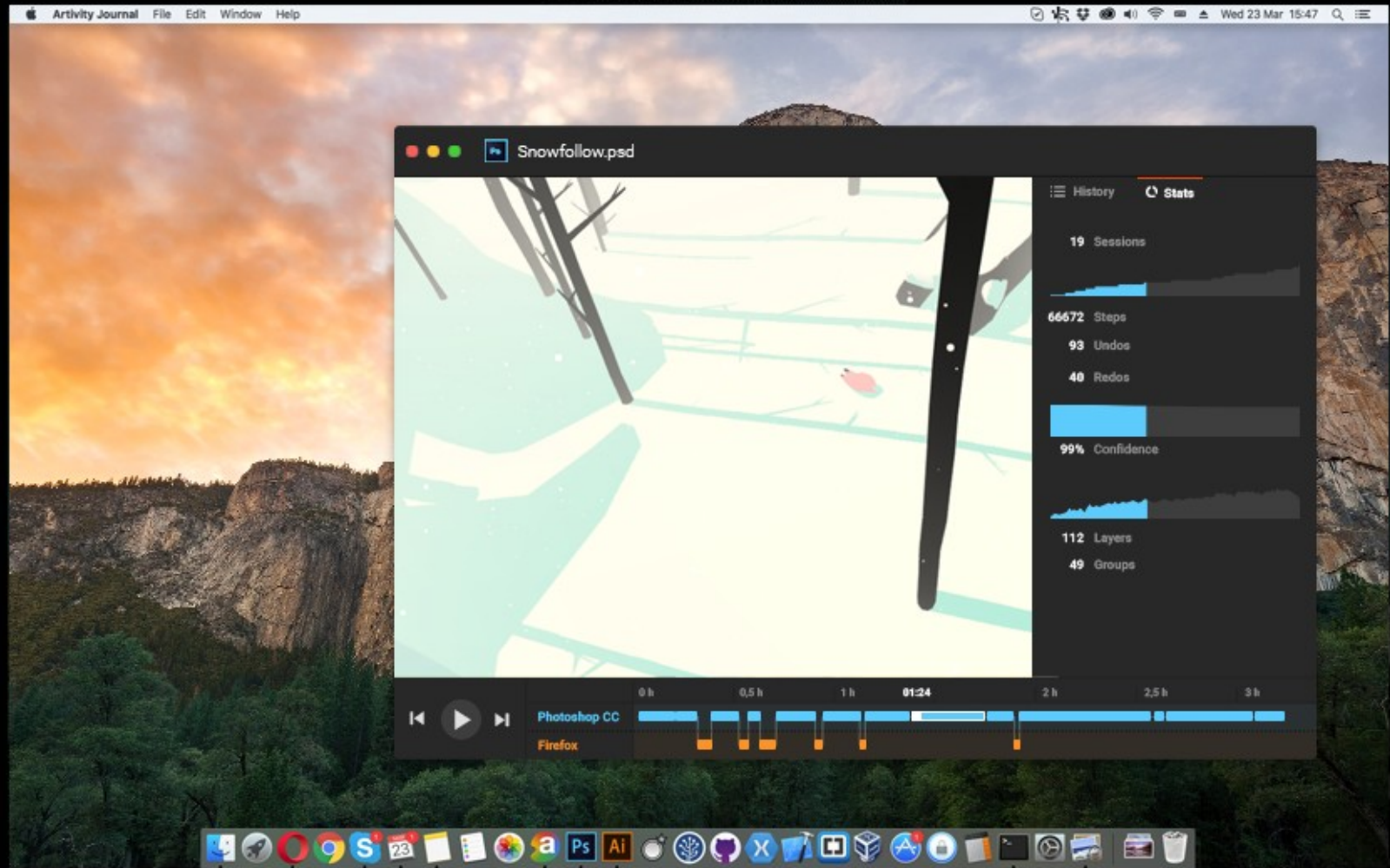
Current Release

- Apps
- Features
- Platform Support
- Architecture

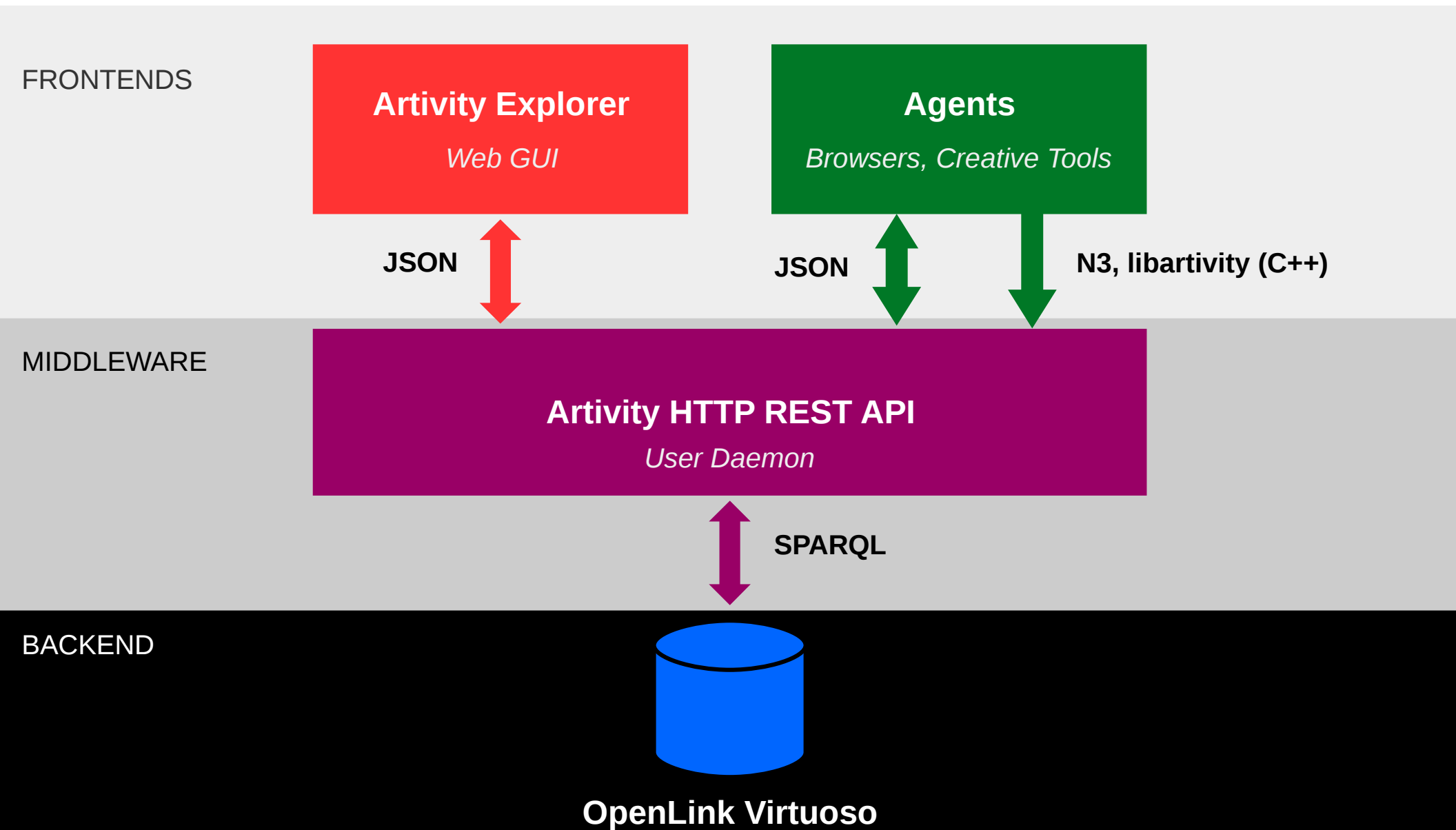
Upcoming Release

- Architecture
- Features
- Platform Support

Activity Explorer



Architecture (Development)



Features (Development)

Activity Explorer

- Recently Used Files
- Review Activity Data
- Export Activity Data
- + Video Playback
- + Publish to Repositories (e-prints, orcid)
- + Add Comments / Notes

Browser Extensions

- Toggle Logging
- + Add Filters

Platform Support

Operating Systems



Creative Tools



Web Browsers





Readme

The Artivity Project aims to produce an open desktop logging framework for arts practice. It allows for capturing detailed data about the creation process of digital artwork and its context. This data can be used to study the techniques, workflow and sources of inspiration in the creation process of digital media. The project is executed as a cooperation with the [University of the Arts, London](#) and [Semiodesk GmbH](#). It is currently funded by [JISC](#).

Summary

This repository currently contains the following modules:

- **activity-apid**: OS daemon which provides a REST API for logging events from clients into Artivity.
- **activity-explorer**: Simple user interface for viewing the activity events for drawings.
- **activity-extension-firefox**: Browser extension for web browsers which are based on Mozilla Firefox.
- **activity-extension-chromium**: Browser extension for web browsers which are based on Google Chrome.
- **activity-extension-krita**: An extension to Krita for logging undo/redo events in Artivity.
- **activity-inkscape**: Modified version of Inkscape for logging undo/redo events in Artivity.
- **libartivity**: A C++ client library for communication with the Artivity database.

Installing

Recent activity

2 commits
Pushed to semiodesk/activity
| [61a4130](#) Merge with default
| [95772a7](#) Implemented Web
Sebastian Faubel · 2016-03-24

1 commit
Pushed to semiodesk/activity
| [46bdfd2](#) Exposed agent da
Moritz Eberl · 2016-03-24

1 commit
Pushed to semiodesk/activity
| [cbd815e](#) added missing file
Moritz Eberl · 2016-03-24

2 commits
Pushed to semiodesk/activity
| [1d087b1](#) Done first work for
| [235372f](#) Prepared activity f
Moritz Eberl · 2016-03-24

1 commit
Pushed to semiodesk/activity
| [2226c7a](#) Added plugin dete
Moritz Eberl · 2016-03-21

1 commit



Thank you!

Visit us at <http://bitbucket.org/semiodesk/activity>