

D8.13

Large Scale Demonstrators - Venice Time Machine

Meta-learning model

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Distribution: http://read.transkribus.eu/

READ H2020 Project 674943

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 674943



Project ref no.	H2020 674943
Project acronym	READ
Project full title	Recognition and Enrichment of Archival Documents
Instrument	H2020-EINFRA-2015-1
Thematic priority	EINFRA-9-2015 - e-Infrastructures for virtual re- search environments (VRE)
Start date/duration	01 January 2016 / 42 Months

Distribution	Public
Contract. date of delivery	31.12.2016
Actual date of delivery	28.12.2016
Date of last update	December 21, 2016
Deliverable number	D8.13
Deliverable title	Large Scale Demonstrators - Venice Time Machine
Туре	report
Status & version	in process; reviewed by : CVL, NAF; v3
Contributing WP(s)	WP8
Responsible beneficiary	EPFL
Other contributors	
Internal reviewers	Günter Mühlberger, CVL, NAF
Author(s)	Sofia Ares Oliveira, Laurent Bolli, Gaël Paccard, Frederic Kaplan
EC project officer	Martin Majek
Keywords	Large Scale Demonstrators, Digitization, Transcrip- tion, Segmentation, Information Retrieval, Indexing

Contents

1.	Exe	cutive	summary		4
2.	Mai	n conti	ributions		4
	2.1.	Design	Large Scale Demonstrator - Venice Time Machine		4
		2.1.1.	General aspects		4
		2.1.2.	Mentions Search Interface		4
		2.1.3.	Entity's events timeline		5
		2.1.4.	Sequencer		5
		2.1.5.	Isometric map with layers of sources		5
	2.2.	Design	Transkribus		6
		2.2.1.	General aspects		6
		2.2.2.	Persona		6
		2.2.3.	Transkribus expert interface		6
		2.2.4.	Transkribus online interface		6
		2.2.5.	Transkribus landing page website		7
		2.2.6.	Miscellaneous		7
	2.3.	Handv	vritten label recognition and parcel segmentation on venitian cadas	ter	
		maps			7
		2.3.1.	Overview		8
		2.3.2.	Cadaster segmentation		8
		2.3.3.	Parcel extraction		9
		2.3.4.	Label extraction and recognition		9
		2.3.5.	Results		9
3.	Wor	k in pr	ogress		10
Ap	penc	lices			12
Α.	Larg	ge Scal	e Demonstrator GUI		12
В.	Larg	ge Scal	e Demonstrator Search		25
C.	Trar	nskribu	s Persona		31
D.	Trar	nskribu	s Expert New GUI		42
E.	Trar	nskribu	s Online Widget - version 1		56
F.	Trar	nskribu	s Online Widget - version 2		77
G.	Trar	nskribu	s Online New GUI		87
н.	Inte	rface L	anding Page Dashboard		97
Ι.	Trar	nskribu	s Interface Map		101

1. Executive summary

The Venice Time Machine (VTM) project aims at building a multidimensional model of Venice and its evolution covering a period of more than 1000 years. The State Archives of Venice possesses an estimated 80 km of shelves that are filled with administrative documents, from birth registrations, death certificates and tax statements, all the way to maps and urban planning designs. These archives are currently being digitized, transcribed and indexed, setting the base of the largest database ever created on Venetian documents.

The Venice Time Machine project wants to give the archives a new, virtual existence on the Web through Cloud access and online tools. It aims to reanimate Venice's past life from them by re-creating social networks and family trees, and visualizing urban development and design.

As one of the four large scale demonstrators of the READ project, the objective is to provide an environment to test and use the technologies developed within the READ consortium on large real-world data and to develop new solutions to deal with large historical archive indexing and retrieval.

2. Main contributions

The contributions of EPFL group to the READ project are divided in three sections :

- Design on the Venice Time Machine (April to September) : Laurent Bolli and Gaël Paccard
- Design on Transkribus (April to September) : Laurent Bolli
- Text recognition on cadasters and documents (since October) : Sofia Ares Oliveira

2.1. Design Large Scale Demonstrator - Venice Time Machine

2.1.1. General aspects

Our role has been to develop an interface capable of displaying events extracted out of historical sources in a spatio-temporal visualization, covering 1000 years of history of Venice. Such interface is at the crossroad of several technical developments, from 3D + time global grid system to 2D sources explorer and 3D modeling.

After an intensive search phase, including interviews of developers and researchers at the lab but also stakeholders of Venice State Archives, mapping of functionalities and wireframing, we divided the interface into five main components.

2.1.2. Mentions Search Interface

This component allows the user to search for all "mention" existing in the database, i.e. all identified entities in a source. Mentions are displayed in a N-graph representation and the sources in which the mention are found are displayed in a thumbnail with a link to the source explorer interface. See appendix :

- A. Large Scale Demonstrator GUI, page 13 to 15
- B. Large Scale Demonstrator Search

2.1.3. Entity's events timeline

Entities (names, places, objects, etc.) are defined by mentions found in primary sources citing them, called "events", thus giving the backbone to describe and place in a timeline each entity. Each entity is a collection of time based events, linked to the sources. Each event has a different duration in time based on date of document or specific time information found in the source. The capability of being able to compare entities trajectories, both in time and space has then been solved by a system of cards in which each entity is displayed in a different color.

See appendix :

– A. Large Scale Demonstrator GUI, page 16 to 18

2.1.4. Sequencer

The sequencer is a timeline in which pre-selected entities (from the search interface) are displayed. Entities are represented by boxes in which the events are represented by lines of various length showing the duration of the event (in green). The user can move the timeline, zooming in and out, to see which entities (events) are occurring at the same time. Each event crossed by the current time (in the example 1578), is displayed in the map, thus showing not only what occurred at the same time but where, as long as the information is available. The sequencer is also a way of keeping track of users searches, by keeping all entities found in a vertical viewer at the left side of the window.

See appendix :

– A. Large Scale Demonstrator GUI, page 19 to 21

2.1.5. Isometric map with layers of sources

Events of selected entities are positioned on a pre-calculated isometric map to enhance online performances. This map is made of 3D cloud of dots, based on a global grid and geometrically aligned on Earth coordinates. It allows to deal with the scarcity of 3D information, which can vary a lot according to the level of knowledge available. For example, we have very detailed information about the Rialto bridge so the system can zoom in very close in the bridge location but at the same time, the rest of the neighbourhood, which is not as detailed will remain blurred. The map can also be compared at different time by using a slider. When no information about the building is available (early ages of Venice), the map shows only the boundary limits in 2D.

See appendix :

– A. Large Scale Demonstrator GUI, page 17 to 18

2.2. Design Transkribus

2.2.1. General aspects

Our role has been to follow the development of READ interface components from a user point of view. This includes the definition and representation of Persona, the development of wireframe to organise and streamline informations and functionalities of the different interfaces and the full design of web interfaces.

We have also participated to workshop sessions with engineers in charge of the development of such interfaces representing the perspective of user experience (UX) and providing best practices consulting to developers and managers.

2.2.2. Persona

We have been working on the definition of Persona based on interviews, survey of similar projects (Australian newspaper and collaborations with NAF and ABP) and previous workshops conducted before our implication in READ. The result is a structured document, presenting the Persona on which a consensus has been adopted, which serves as a decision tool when action must be taken on functionalities development and interface organisation. Deliverables are in the form of Powerpoint editable files.

See appendix:

– C. Transkribus Persona

2.2.3. Transkribus expert interface

For the professional desktop interface, our role has been to develop a new GUI based on current version of Transkribus software. The result is a compiled on a document that describes all the main components of the interface: menu, toolbar, contextual windows and behaviour. This document serves as a base for future evolution of Transkribus expert interface.

See appendix:

– D. Transkribus Expert New GUI

2.2.4. Transkribus online interface

For the online version of Transkribus, we've develop separated widgets for specific purposes:

- search and correct widget various propositions from simple to more complex based on Persona
- e-learning widget
- proof-reading widget
- crowd sourcing widget and proposition for user profiling

See appendix:

- E. Transkribus Online Widget version 1,
- F. Transkribus Online Widget version 2,
- G. Transkribus Online New GUI

All these widget were meant to be integrated in the online version of Transkribus and have been thoroughly discussed with the engineer team. Deliverables are in the form of a PDF document and Adobe Illustrator files.

2.2.5. Transkribus landing page website

Our contribution has been to redefine Transkribus home page, presenting the Persona in a less formal manner, a new menu giving access to the whole set of interfaces, an access to the collection and document manager page and the access to the installation and WIKI page of the project. Deliverables are in the form of a PDF for presentation and Adobe files for development.

See appendix:

– H. Interface Landing Page Dashboard

2.2.6. Miscellaneous

We have also developed a visualisation of Transkribus ecosystem to help the communication of the project internally by giving a simple yet complete visual representation mapping all interfaces and connected services of READ.

See appendix:

– I. Transkribus Interface Map

2.3. Handwritten label recognition and parcel segmentation on venitian cadaster maps

Cadaster plans are cornerstones for reconstructing dense representations of the history of the city [1]. They provide information about the city urban shape, enabling to reconstruct footprints of most important urban components (buildings, streets, canals, bridges) as well as information about the urban population and city functions (census information, property, rent prices, etc.) [2].

Cadasters are a powerful way to link different types of items and information. Because they contain both spatial and textual information, the establishment of a processing pipeline for interpreting them remains extremely challenging.

2.3.1. Overview

Our group implemented a fully automated process capable of segmenting and interpreting Napoleonic cadaster maps of the Veneto region dating from the beginning of the 19th century. The system extract the geometry of each of the drawn parcels, classifies, reads and interprets the handwritten labels. An overview of the system can be seen in Fig. 1.

Such process makes cadaster maps searchable, allowing for example to locate a given label within a map, and also helps the georeferencing process. By integrating this work in a larger system, it is possible to link the mention of an owner with all its landholdings and show the corresponding regions on the maps, or vice versa by selecting a region, its owner can be directly retrieved. The proposed approach is a great step towards an easier, more efficient and more interactive study of these documents.

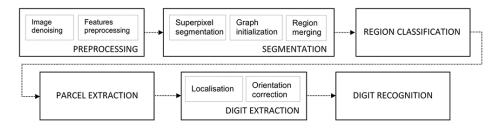


Figure 1: Overview of the system

2.3.2. Cadaster segmentation

To extract the desired information from the document, a graph-based segmentation approach is adopted, which models the image as a weighted undirected graph. This allows to process the pixels in the spatial domain of the image but also to use higher level information such as connections, similarities and dependencies between the elements.

A graph is a mathematical structure composed of vertices and edges, representing a system of connections or interrelations among a set of objects. In our case, the graph representing the image is initialized with superpixels (Simple Linear Iterative Clustering (SLIC) method [3]) as vertices and the edges connect neighbouring vertices (superpixels). Each edge has a weight which is a measure of the dissimilarity between neighbouring elements.

Homogeneous regions are found by grouping similar superpixels and merging the corresponding graph vertices. Our approach uses global homogeneity, meaning that the method minimizes intragroup dissimilarity and maximizes intergroup dissimilarity. The "dispersion" of edge weights (i.e standard deviation within a region) allows to spot high weighted edges within a group and thus disconnect dissimilar vertices to end up with independent homogeneous regions.

2.3.3. Parcel extraction

The merged regions are then classified to identify possible parcel candidates. The classification uses a Support Vector Machine (SVM) classifier trained on manually annotated samples of maps coming from the Napoleonic cadaster of Venice.

To obtain the parcels, we apply a flood fill algorithm on each parcel candidate. Starting from one point within the candidate region (seed point), the flood fill algorithm floods the "flat" zone and stops at the boundaries (previously defined by a ridge detector).

The parcels are finally extracted as polygonal shapes, and their corners' points are saved in GeoJSON format to allow further integration of parcels in geographic information systems (GIS).

2.3.4. Label extraction and recognition

The parcel's handwritten label is a unique identifier which allows to match each property to its owner, and is of great interest for named-entities study for instance.

The recognition of the label is done in two steps. First, elements classified as text regions are localised, delimited by bounding boxes and grouped so that neighbouring characters are extracted together. The segmented parcels are used to refine the localisation, since the label is usually contained within the parcel. The identifiers' boxes are rotated to be horizontally oriented since the digit recognition step requires horizontally oriented digits to output accurate predictions.

Then, the horizontally oriented numbers are separated into digits that are processed individually. A good digit segmentation is primordial since connected or overlapping digits lead to incorrect recognition. A simple Convolutional Neural Network (CNN) composed of two convolutionnal layers, one fully-connected layer and a final softmax layer is used to predict the identifiers. It is trained on MNIST dataset [4] and fine-tuned with digit samples from *Sommarioni* register and performs with an accuracy of 0.9895 on MNIST dataset and 0.9413 on the fine-tuned dataset. The CNN outputs the predicted number with a confidence level, which indicates the reliability of the result.

2.3.5. Results

The proposed approach shows promising results in parcel extraction and identifiers recognition. On the first "proof-of-concept" tests, we were able to extract most parcels and identifiers correctly (more than 85%), which confirmed the feasibility of their automatic extraction. According to Fig. 3a, almost 30% of extracted elements are not parcels (false positives), this rate can be reduced by using feedback from digit recognition results. Using the prediction and its confidence level would allow to discard regions where no reliable identifier has been recognised.

Concerning the digit recognition, 65% of identifiers had one or more of their digits correctly recognised but less than 10% had all their digits properly identified (Fig. 3b). Better segmentation on identifier's digits would improve digit recognition results, solutions based on contour features or on background and foreground analysis [5] can for instance be explored.

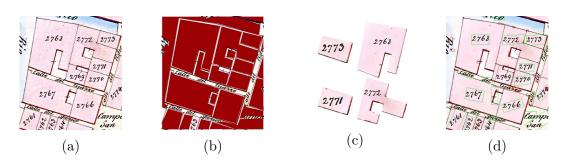


Figure 2: Sample of results : (a) original image, (b) polygon approximation of parcels, (c) extracted parcels and (d) identifiers localization

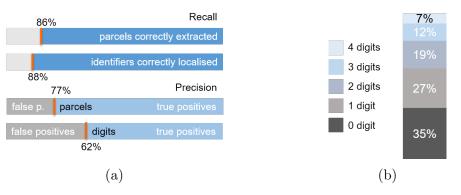


Figure 3: Summary of the results of (a) parcel and digits extraction and (b) digit recognition

This work shows promising results to ease and accelerate cadaster processing, especially with its efficient parcel segmentation and digit identification. The system can be extended and integrated into a user interface to take better advantage from the results, for example by allowing the user to correct or add information about parcels and identifiers. Moreover, the possibility to export parcel's geometry into GeoJSON format opens up further perspectives to efficiently georeference ancient maps.

A demo code can be found at : https://github.com/dhlab-epfl/cadasters

3. Work in progress

The EPFL group is currently working on a word matching system to retrieve occurences of similar words within all archives. We are exploring the use of neural networks to produce accurate descriptors of the word image which are then fed in a word embeding system such as Word2Vec [6]. The combination of graphical form description with context prediction and representation offers an interesting alternative to the accurate transcription constraint, since words employed in similar contexts are likely to be the same.

Preliminary work on newspapers shows encouraging results. Words that are graphically similar are close in the embedded space (lexical similarity, i.e "cat" and "car"), but also

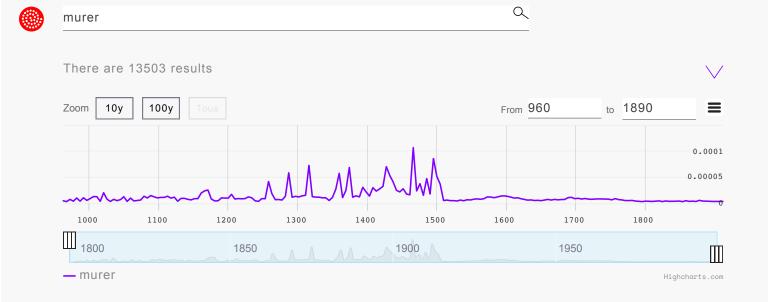
the neighbourhood of a word is composed of semantically similar words (i.e "Tokyo" and "Japan").

We are now focusing on extending the method to non-segmented handwritten words, in order to be able to parse all type of documents without the need of accurate segmentation.

References

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A. Large Scale Demonstrator GUI



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Quad_1533 S.Moisé 1424 Page 519



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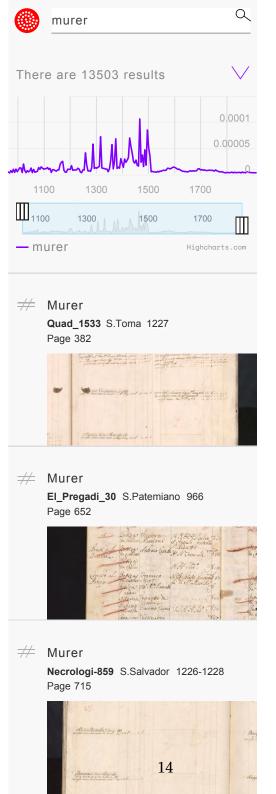
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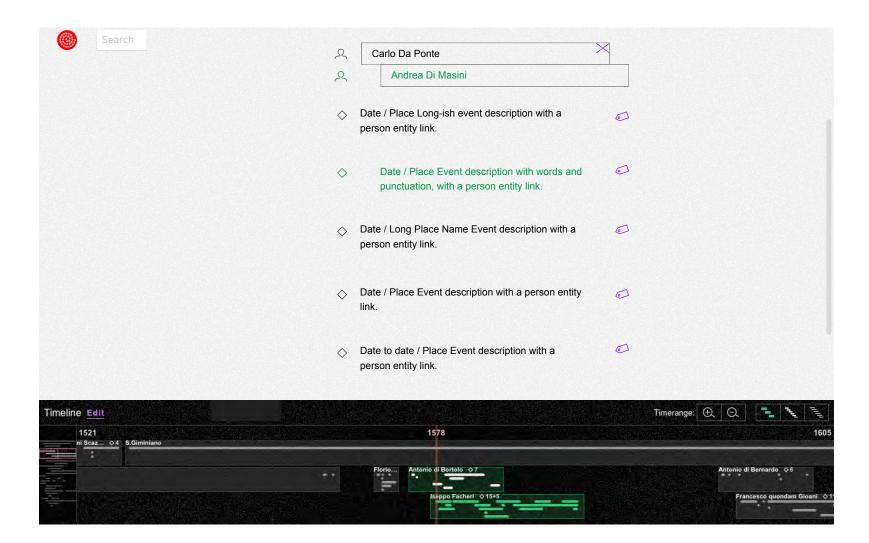
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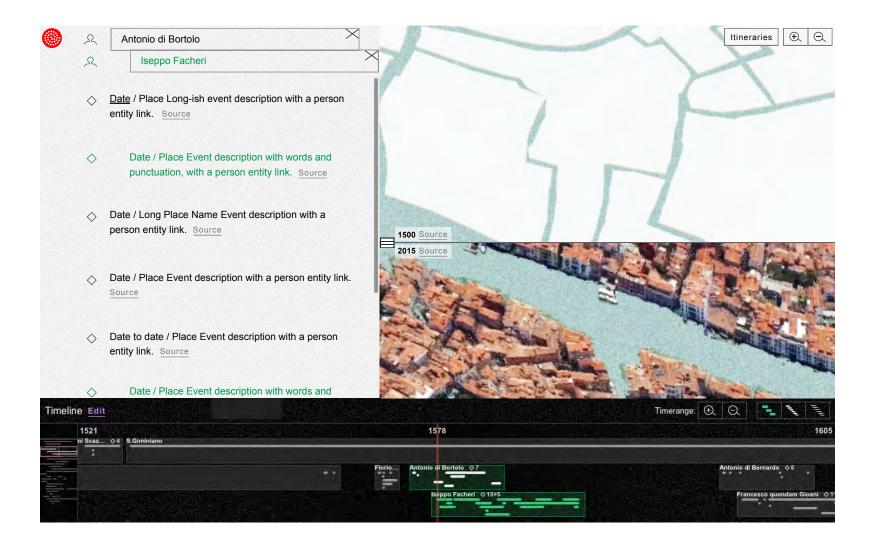
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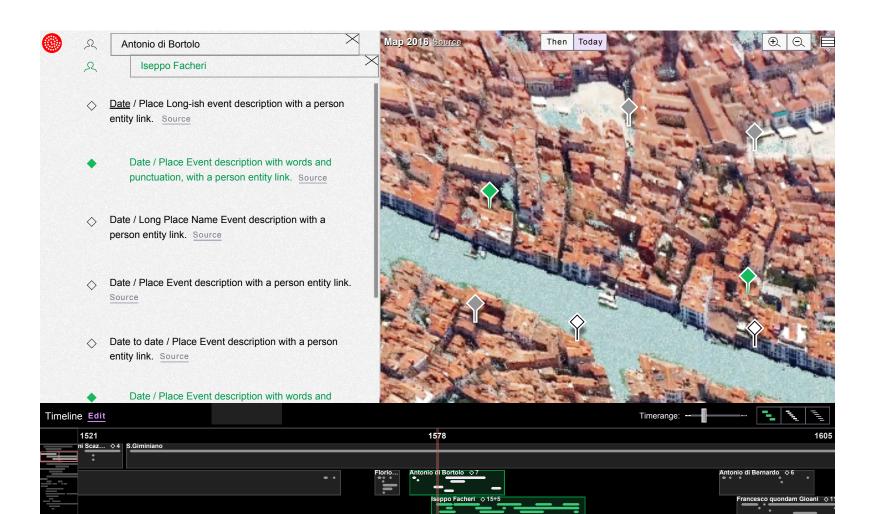


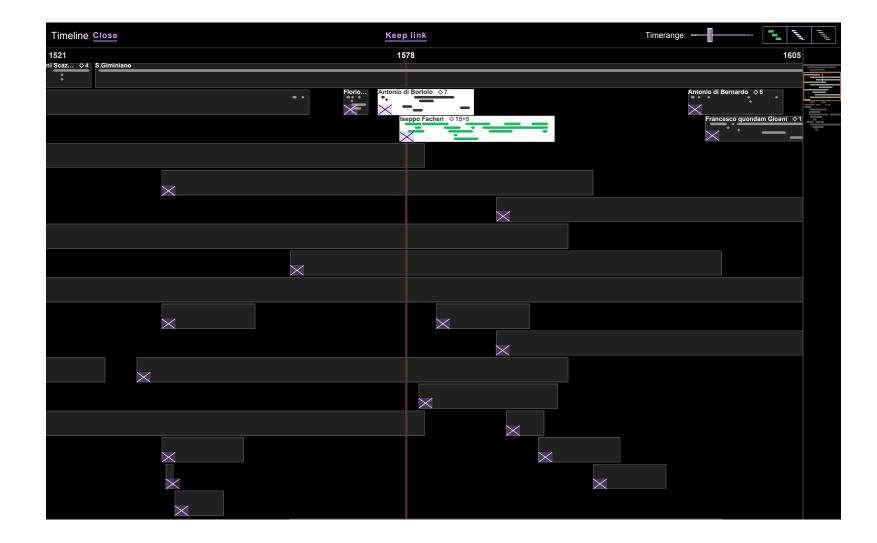


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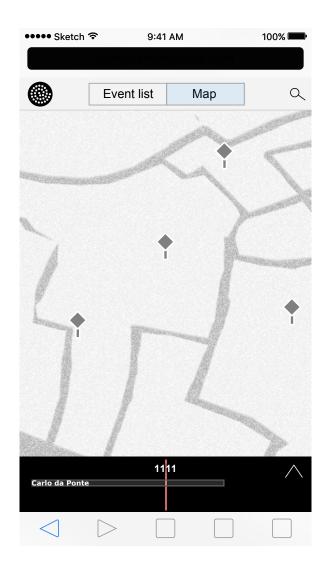


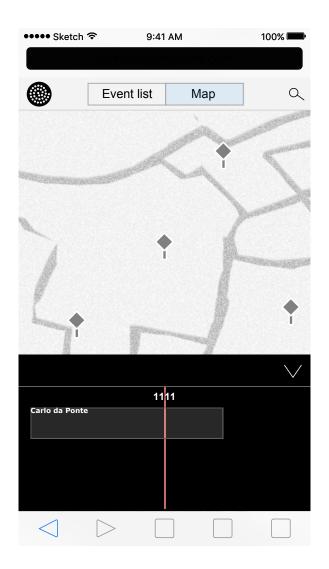


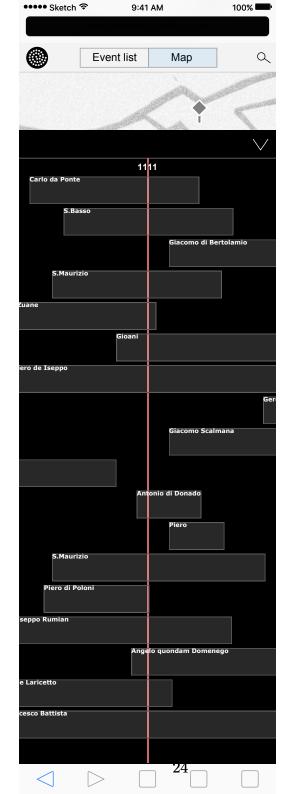
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B. Large Scale Demonstrator Search



Time Machine

Here is a place and time for everything

Search

Q Search tips



Tips to narrow your search

Search a name, a place or an object

\times

Q

"words in quotes" - "Gianfranco Nanni"

All the words in that order

A collection or corpus

collection name:DD.MM.YYYY - catastici:01.01.1500

Results on a date

date:DD.MM.YYYY - date:01.12.1884

Results before or after a date

before:YYYY after:YYYY - before:1808 Rialto

Between two dates

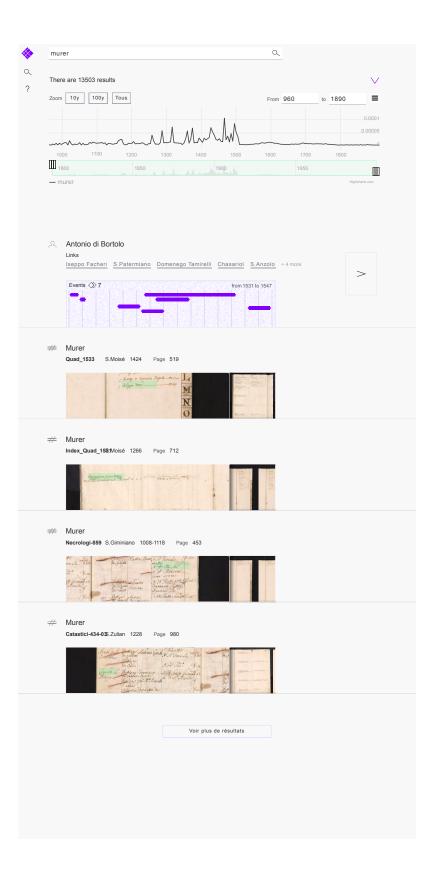
before:YYYY after:YYYY - before:1708 after:1808

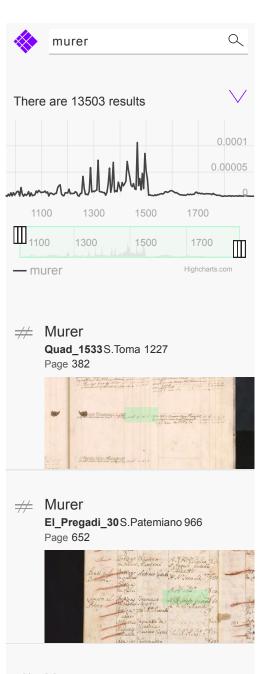
All the words

AND – energy AND solar

Either words

OR – gaz OR electric

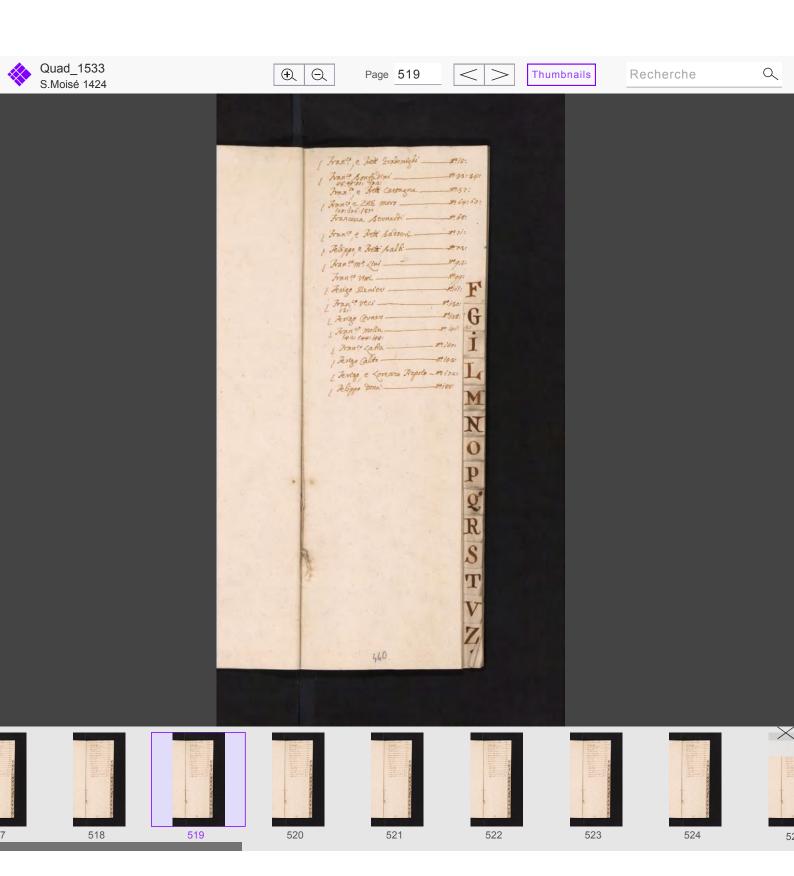


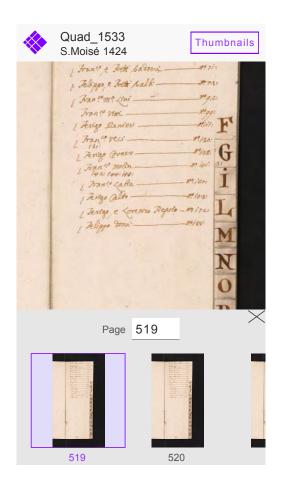


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C. Transkribus Persona

1. Introduction to the Personas

According to the GA and all our papers, we have four main user groups:

- A. Archives, libraries, collection holders
- B. Humanities scholars
- C. Volunteers and public users
- D. Computer scientists and technology providers

Suggestion is to cover them with 7 personas, described in the following pages:

Four main personas:

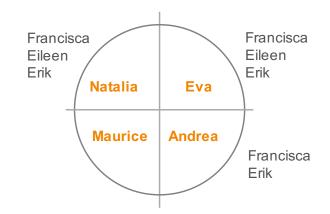
- 1. Natalia archivist
- 2. Eva humanities scholar
- 3. Maurice family historian
- 4. Andrea computer scientist

Three additional personas:

They are often team members of the main personas

- 1. Francisca student: often a team member of Natalia, Eva, and Andrea
- 2. Eileen super transcriber: sometimes a team member of Natalia and Eva
- 3. Erik software engineer: often a team member of Natalia, Eva, and Andrea





2. Distribution of Personas



Estimation of distribution within the 3500 registered users

Natalia – archivist

- About 60-80 persons with direct communication = 2%
- About 300-400 registered = 8-12%



Eva – humanities scholar

- About 20-30 persons with direct communication = 1%
- About 100-150 registered



Maurice – family historian/enthusiast

- About 200-300 person with direct communication = 6-8%
- About 2000-2500 persons registered = 60-80% !



Andrea – computer scientist

- About 10-20 persons with direct communication
- About 30-50 persons registered



Francisca- student: often team member of Natalia, Eva, and Andrea

- About 30-50 persons with direct communication
- About 150-200 persons registered = 5-7%



Eileen – super transcriber: sometimes team member of Natalia and Eva

- About 3-5 persons with direct communication
- About 20-30 persons registered

Erik - software engineer: often team member of Natalia, Eva, and Andrea

- About 5-10 persons with direct communication
- About 30-50 persons registered

Main Personas

Additional Personas



Distribution of users over Persona 3.

Persona	Туре	Direct-low	Direct-high	Registered-low	Registered-high
Natalia	Archivist	60	80	300	400
Eva	Scholar	20	30	100	150
Maurice	Family historian, Enthusiast	200	300	2500	3000
Andrea	Computer Scientist	10	20	30	50
Francisca	Student	30	50	150	200
Eileen	Volunteer, Super-transcriber	3	5	20	30
Erik	Software Engineer	5	10	30	50
Total		328	495	3130	3880

Note:

Estimation mainly done by GM based on more than one year registration, mailing, workshops, etc. Figures are only for registered users – of course there are many more contacts etc. with people having not registered



Natalia

Archivist, collection manager

Archivist at medium or large archive: 35+ years old Archival expertise: high Technical expertise: medium

Similar profiles

- Collection owner
- · Librarian (special collections)
- Heads of libraries/archives/departments

Special power

Domain knowledge about content of the collection. Knowledge on users and their demands.

Motivation to use Transkribus

- It allows me to manage multiple digitised collections and organize the transcription process
- It's a one-do-it-all platform
- I can benefit from the work of other institutions/archives to accelerate the process of transcription

Daily activities (typical day)

- Manage running projects
- Work with volunteers (give task, motivate, follow-up)

What I do most

- Management of collection, definition of tasks
- Follow-up of volunteers and students

Frequency of interaction with Transkribus

Daily

Access to resources

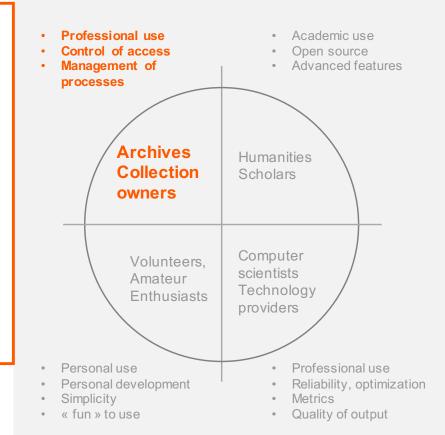
- Is involved in descion making on archive level (internal budget)
- Applies for funds on national or international level

Objectives

Improve user experience and access to archival collections Apply for funds (together with humanities scholars) for digitisation and transcription

Frustration with the task

- Transkribus requires serious training if all features and interfaces shall be used
- Crowd sourcing interface is not appealing enough to attract users
- No community manager tool



Location Office

Interfaces used

Transkribus expert interface Transkribus Webinterfaces Mobile interfaces REST services (indirectly)

Technical proficiency

High: Expert in Transkribus and how to get most out of it for the archive



Eva

Humanities Professor

University Professor – 50+ years Scientific expertise: Excellent Technical expertise: Low to medium

Similar profiles

- Collection curator
- Editor of historical documents
- Scientific Publisher

Special power

Domain knowledge, project vision, large network in academic community, access to research grants

Motivation to use Transkribus

- My team and me can access, work, extract information from historical documents in a previously unkown way
- I need not to care about technology but have a powerful environment to carry out important parts of my research projects
- I have benefits when I apply for the next grant

Daily activities (typical day)

- Manage running grants
- Teaching
- Organise research with team

What I do most

- research on my collections
- managing collections, give task to researcher

Frequency of interaction with Transkribus

• 1 time per month

Access to resources

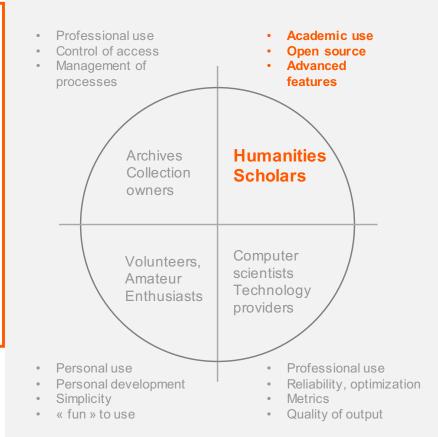
- Manages, is responsible for and applies for project grants
- Has access to university/faculty budget
- Is able to involve students

Objectives

Improve scientific excellence/reputation of myself, my team, my institution Manage projects in a reliable way

Frustration with the task

- Transkribus is one more tool, team needs to get familiar with it
- Interface is not always adapted to my needs;
- Development of new features etc. hard
 to synchronize with project progress
- No demo mode to showcase the work of my lab



Location Universities, laboratories, classrooms

Interfaces used

Expert interface to manage the whole project Webinterface for involving students and collaborators Webinterface for publishing documents Mobile interface for correcting unclear words REST technical proficiency for connection with archives



Maurice

Enthusiastic amateur Family historian

English teacher - 45 years old Scholarly expertise: low to medium Technical expertise: low

Similar profiles

People involved in local history

Special power Curiosity, enthusiasm

Motivation to use Transkribus

- It's a magic tool for transcription
- I can enrich my family history
- I'm interested in genealogy
- I can have access to concrete information
- Read things that I cannot read now

Weekly activities (typical day)

- Search for information about family members
- Create own collection (small quantity)

What I do most

- Correction of automatic transcription
- Create simple segment (text area)

Frequency of interaction (w/ Transkribus)

• 1-2 times a month

Access to resources

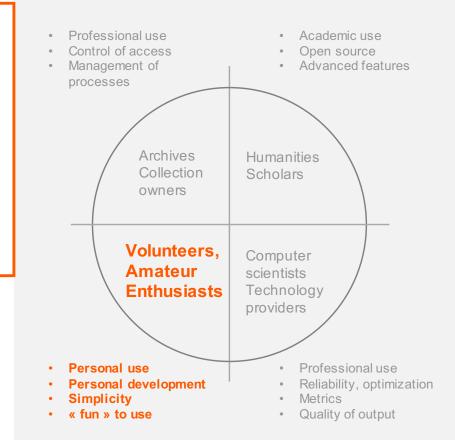
None

Objectives

Dig in my family history.

Frustration with the task

- The automatic transcription does not always give good results;
- I don't understand the interface;
- I can't share the result with my family



Location At home

Interface used

We binterface with immediate upload and transcription service ScanApp for making photos in archives

Technical proficiency

Low, I know how to use Word and Google



Andrea

Computer scientist

PhD knowledge management-32 years old Domain knowledge: High Technical expertise: High

Similar profiles

- CTO of company
- Expert in digital humanities with high technical expertise
- New generation archivist / historian

Special power

Strong expertise in technology and science, but is also interested in humanities

Motivation to use Transkribus

- I want to take benefit of the datasets, the domain knowledge and the network of Transkribus
- I want to fulfill my client's request
- I appreciate all possibilities proposed by the interfac
- I can rely on the security and accuracy of the tool.

Daily activities (typical day)

- Management
- Teaching (if located at university)
- Research

What I do most

- Research
- Follow-up of results and output

Frequency of interaction (w/ Transkribus)

 Seldom (other team members will be actually involved)

Access to resources

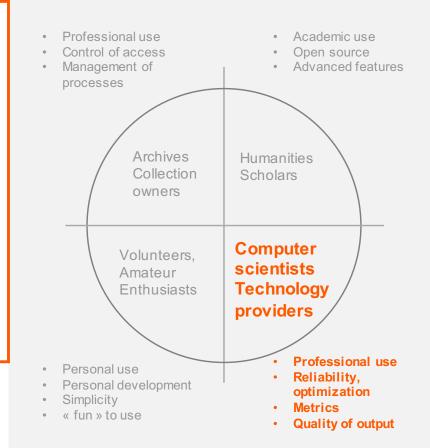
- Manages, is responsible for and applies for project grants but also commercial projects
- Has access to university/faculty/company budget
- Is able to involve students or employees

Objectives

Advances in computer research and technological services Receiving new grants and commercial projects

Frustration with the task

- Sometimes easier to work with the tools themselves than with the platform
- High learning curve is required for using Transkribus
- Compliance with own tools is not always easy



Location From everywhere

Most used interfaces REST services GitHub Repository

Technical proficiency High, I'm an expert in this domain



Francisca

Master student

Software engineer - 25 years old Experience in HTR: middle Experience with DH activities: high

Similar profiles

- Computer science students
- Digital Humanities students
- Young researcher
- Scientific collaborators

Special power

Focus on task, curiosity

Daily activities (typical day) identify semantic entities

- Identify semantic entities
- work on specific layout
- work on metadata

What I do most

- annotate and add tags
- segmentation
- transcription

Frequency of interaction (w/ Transkribus)

• almost every day

Access to resources

None

Objectives

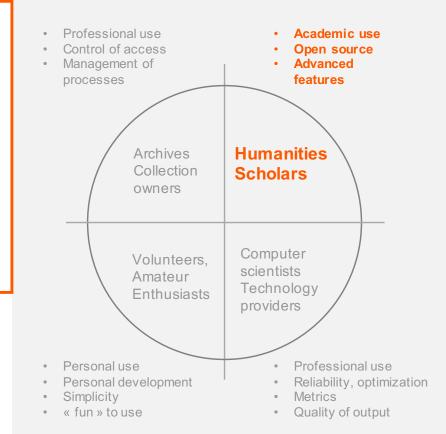
Get better in DH research field

Motivation to use Transkribus

- · I like the versatility of the interface
- I can have access to many kind of documents and train myself
- I can improve my skills
- I participate in cutting-edge technology development

Frustration with the task

- It's a long and frustrating process;
- The interface looks old and does not correspond to what I'm used to
- It's hard to work as a team using the interface



Location

Universities, at home (remote)

Interfaces used

Annotation tools (tags, type, entities, etc.) Transcription and segmentation tools

Technical proficiency High, I'm a skilled engineer



Eileen

Volunteer - super transcriber

Retired teacher – 60+ years old Domain knowledge: low but growing Technical expertise: low

Similar profiles

- · People with a strong interest in history
- · EditorofWikipedia
- People in dined to work for non-profit organisations

Special power

Have time, can read or are motivated to learn hand-written manuscript. Dedicated to a famous person

Motivation to use Transkribus

- I can work with documents that concern me (family, local activities, community)
- I play a role in a non-profit, cultural project (and get invited for Christmas dinner)
- I enlarge my skills and experience and share it with the community
- I can use the e-learning module to improve my skills
- I enjoy working with gradually complex documents

Daily activities

- Transcribe documents
- Add tags

What I do most

 Transcribe documents including segmentation

Frequency of interaction (w/ Transkribus)

• 4-5 times a week

Access to resources

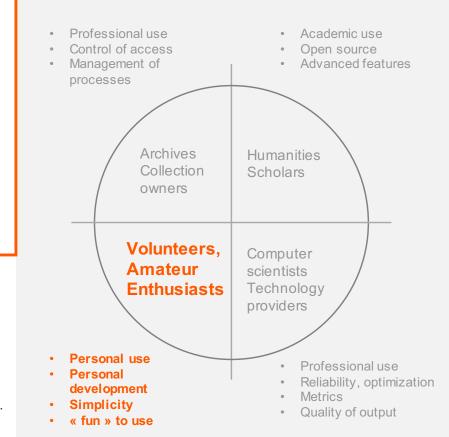
• Own working power (which can be a lot!)

Objectives

Find interesting activities to occupy my time.

Frustration with the task

- Transkribus requires serious training if all features and interfaces shall be used
- Crowd sourcing interface is not appealing enough to atttract users
- No community manager tool
- I need help for installation



Location At home

Interface most used features:

Transkribus Webinterface (Crowd sourcing-tool) Transkribus expert tool

Technical proficiency

Starting as novice I am improving and become an expert in my specialized field



Erik

Software developer

Software engineer - 29 years old Technical expertise: excellent Scholarly expertise: low

Similar profiles

- PhD Computer scientist
- Early adopter (interested in technology)

Special power

Coding, interpretation of software behavior

Motivation to use Transkribus

- It's one of the most advanced software for transcription and I'm part of it
- It's a engineering challenge: I can develop and test new functionalities on a huge collection of documents
- It's part of my job to support others in their use of Transkribus

Daily activities (typical day)

- Coding to improve back/front-end
- Testing new algorithms

What I do most

- I use advanced features on complex documents
- Identify limitation of Transkribus and find ways to improve it

Frequency of interaction (w/ Transkribus)

• every day for testing development

Access to resources

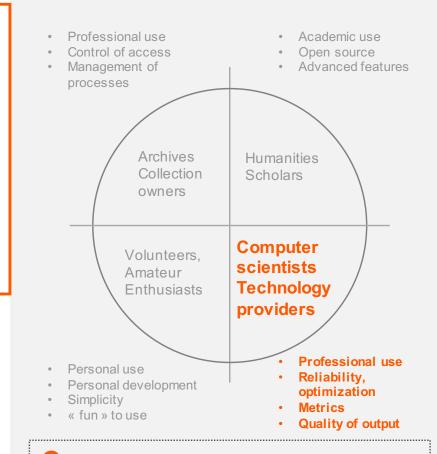
Limited

Objectives

Improve Transkribus engine, enhance experience with the interface, win competition

Frustration with the task

- The development is a bit scattered
- A lot of time is needed to guarantee
 interoperability
- There is no developer interface to upload and share results with my remote colleagues



Location From everywhere

Interfaces used: Github REST All interfaces from the technical point of view, i.e. testing, debugging, but also user training Competition platforms

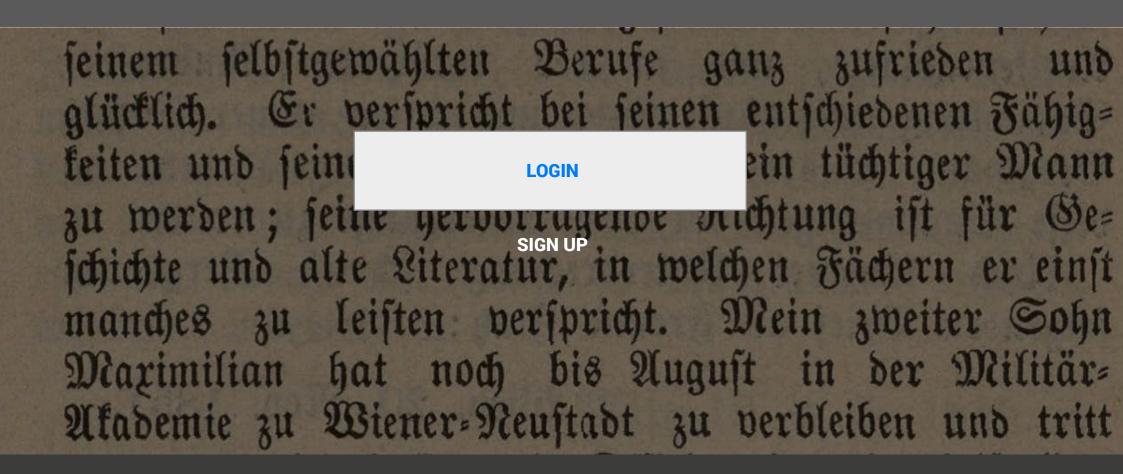
Technical proficiency

Expert: I know how Transkribus platform is coded

D. Transkribus Expert New GUI

TRANSKRIBUS

Version 0.8.3

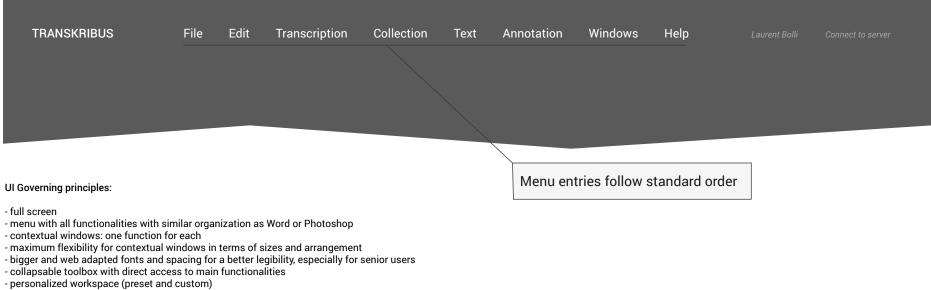


LOGO

LOGO

LOGO

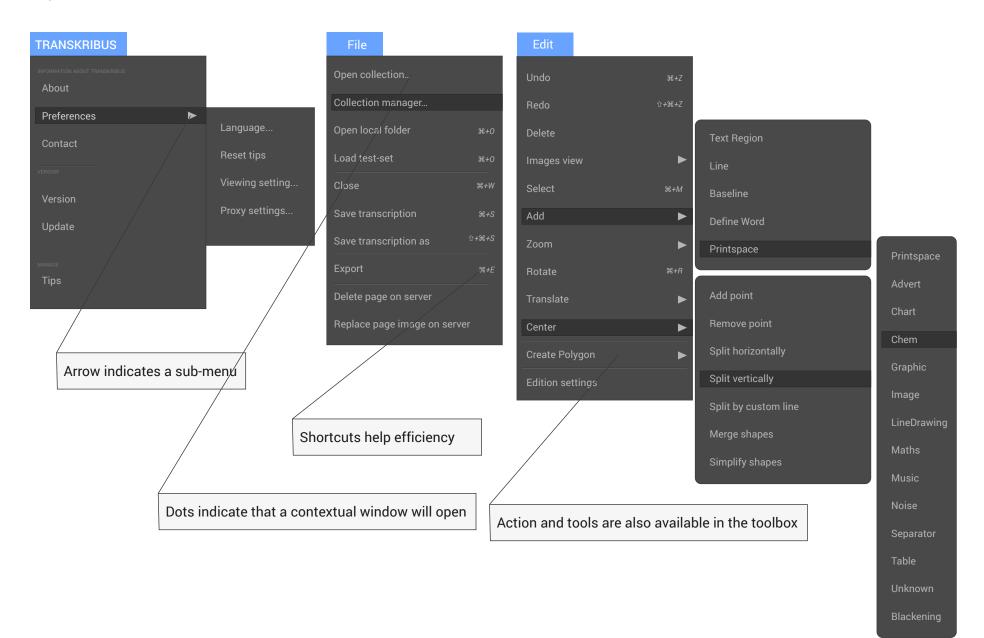
READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 1: Menu



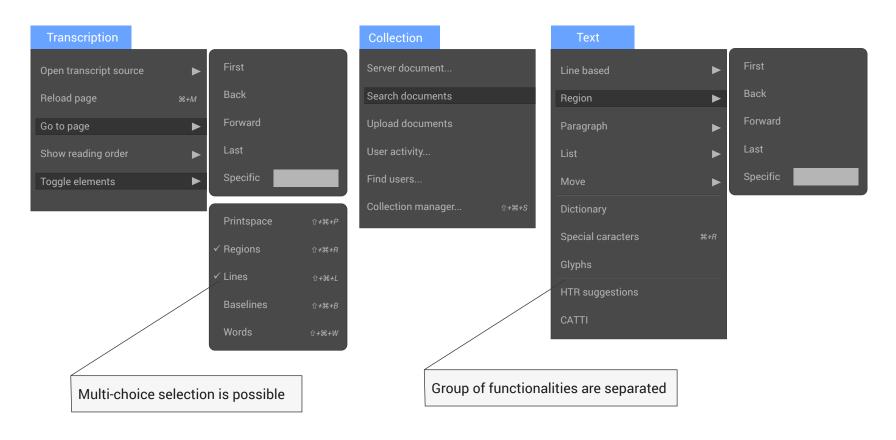
- more settings for the users: change background color for example

- consistency in graphic design elements (icons, color, fonts, etc.)

READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 2: Menu development



READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 3: Menu development



READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 4: Menu development

Annotation		Window	
Add tag		Workspace	►
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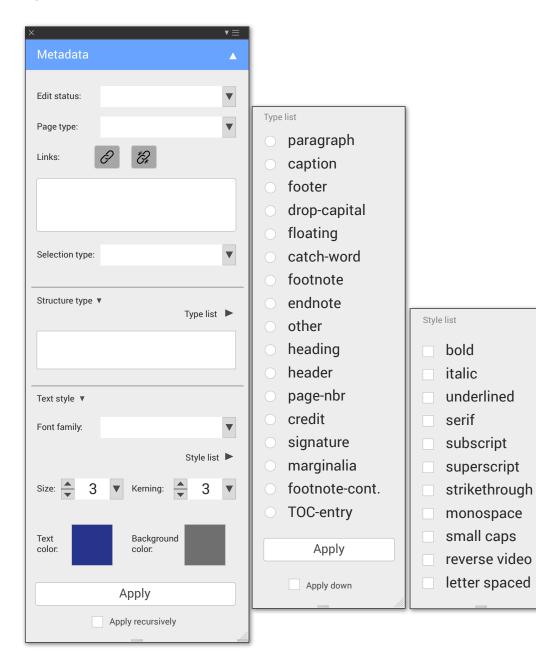
Comments

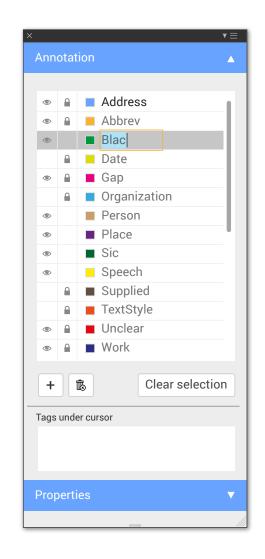
The Window menu groups every contextual windows

READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 5: Contextual Windows

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READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 6: Contextual Windows





READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 7: Contextual Windows

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READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 8: Contextual Windows



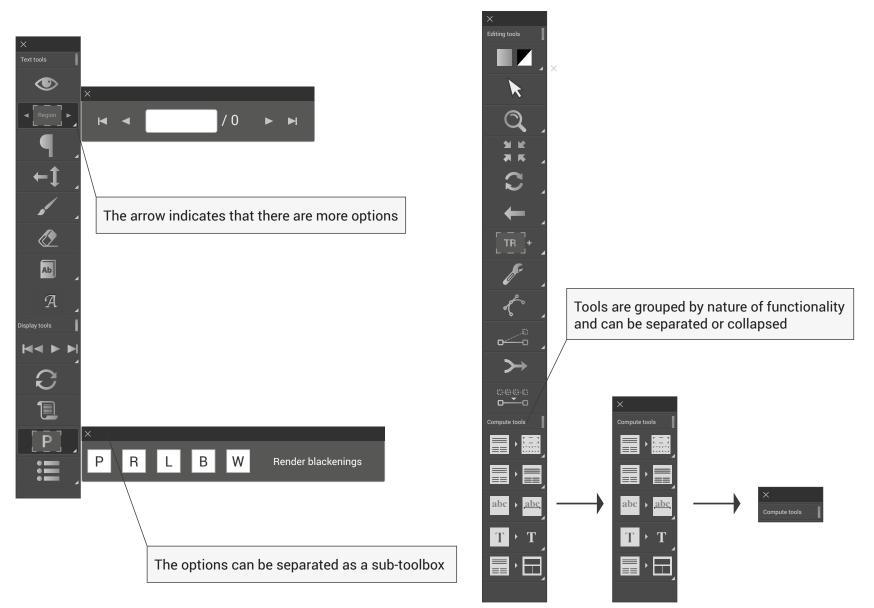
READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 9: Contextual Windows

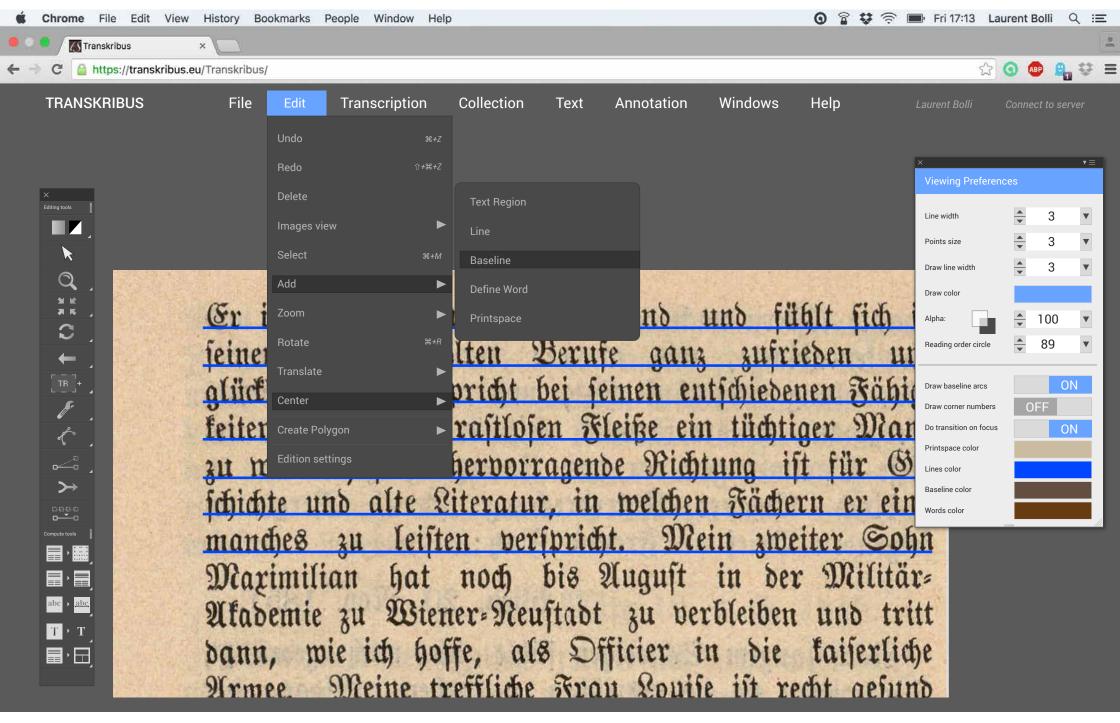
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READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 10: Contextual Windows

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 Users in collection 						
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READ / Transkribus web interface / wireframe v1 / May 2016 / L.Bolli EPFL DHLAB Page 11: Tool box





E. Transkribus Online Widget - version 1

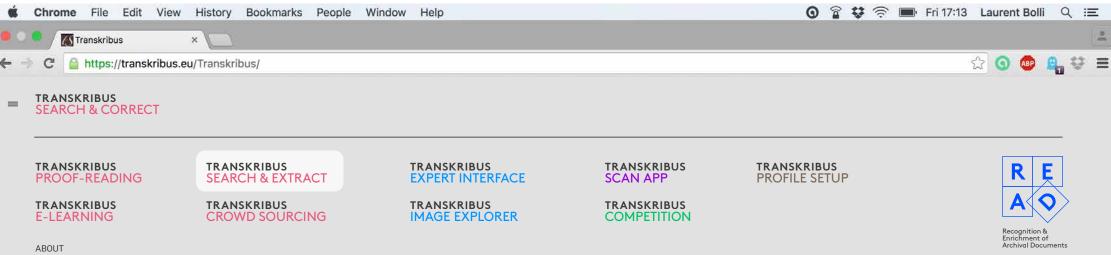


LOGIN

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Learn more about Transkribus Interfaces and why your contribution matters.





Transkribus Search & Extract module is an interface that allows you to extract information from a given archive. Explanation text about selection.

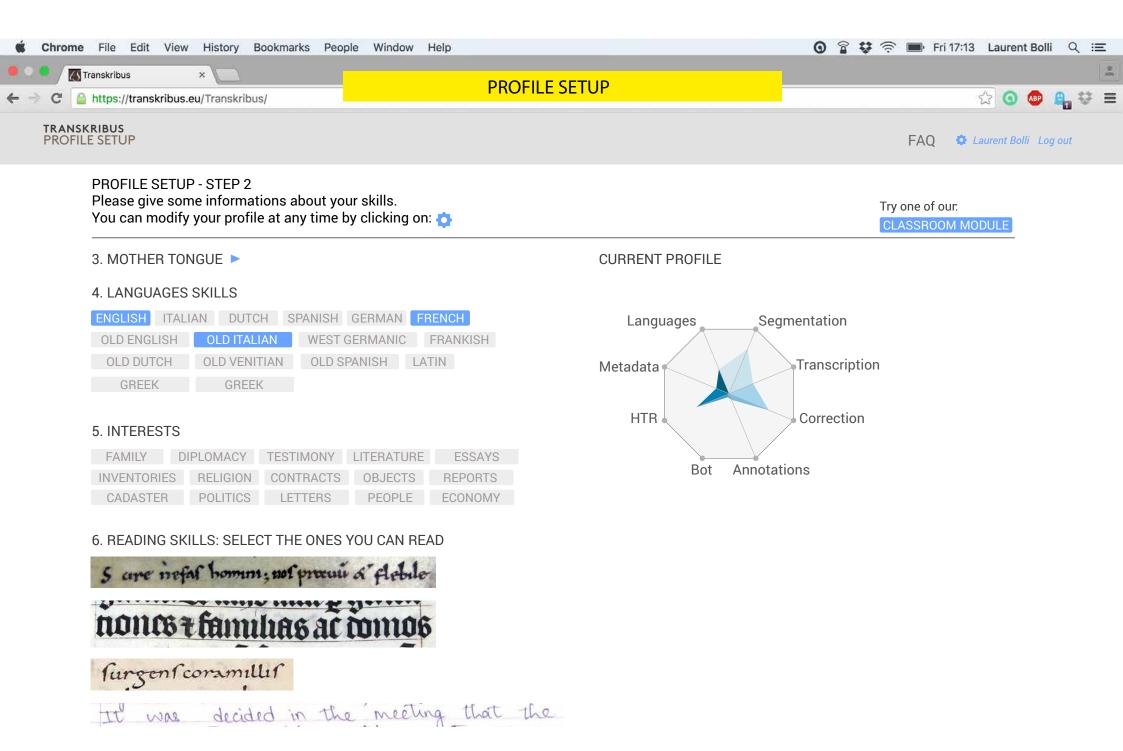


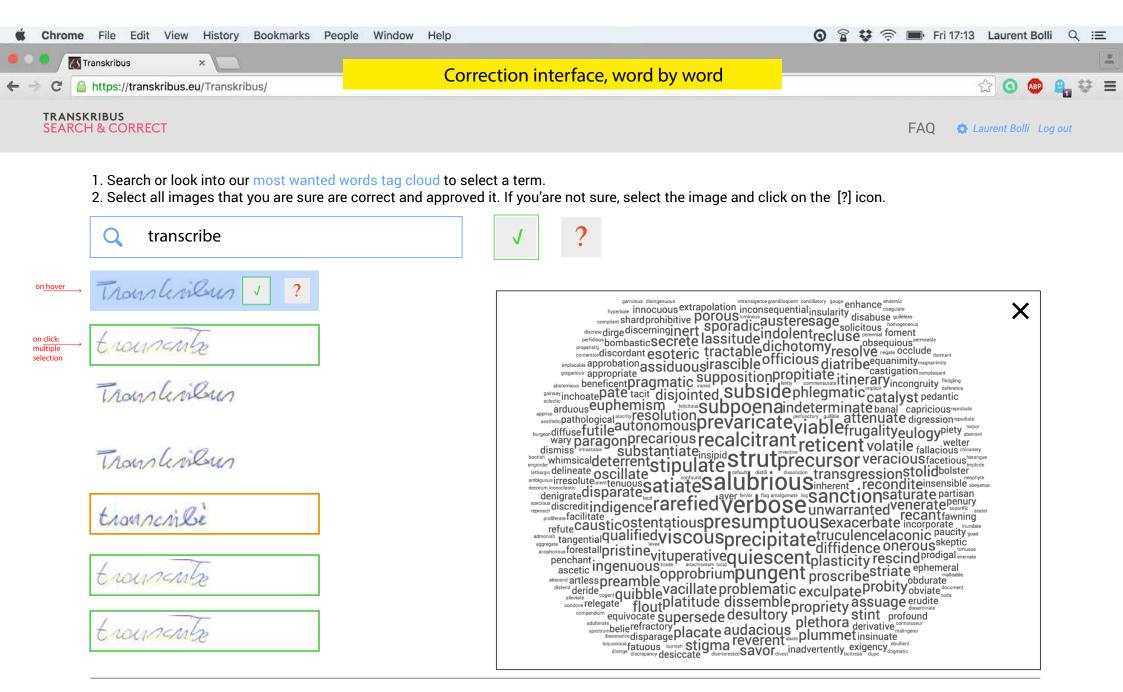
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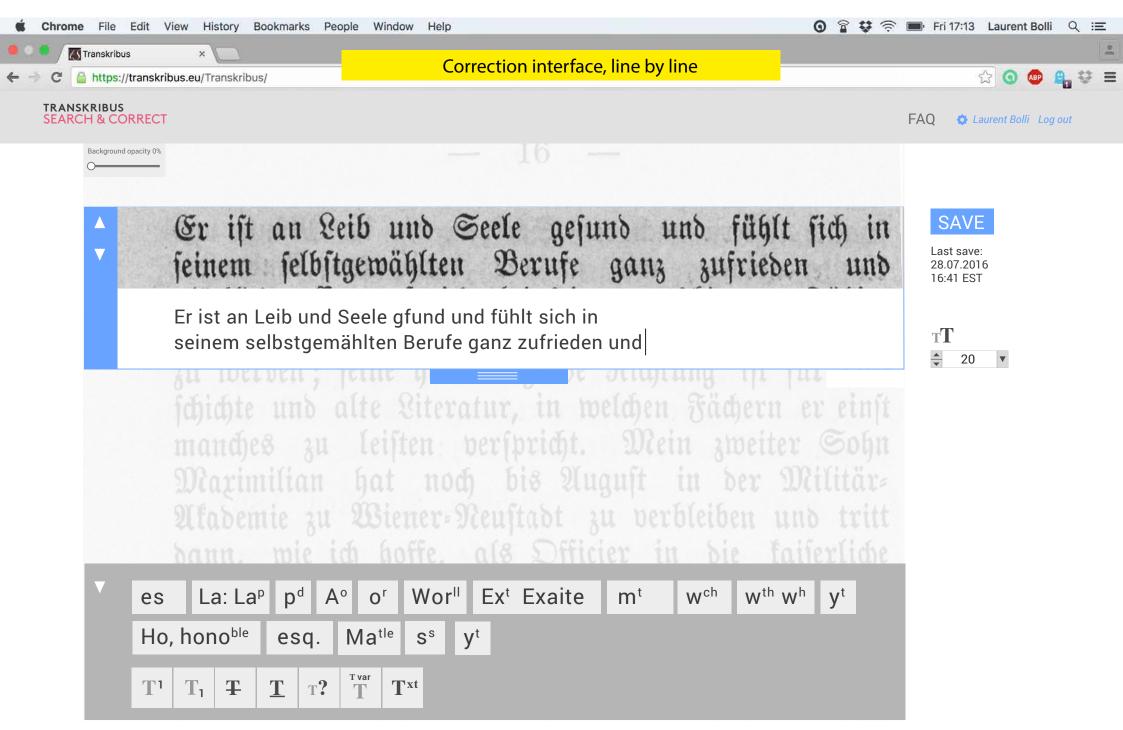
Learn more about Transkribus Interfaces and why your contribution matters.



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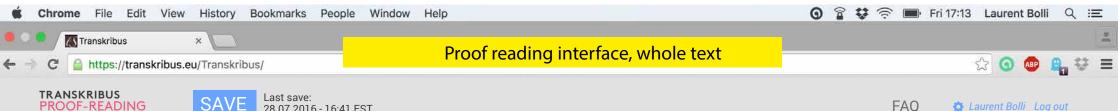
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PROOF-READING

28.07.2016 - 16:41 EST

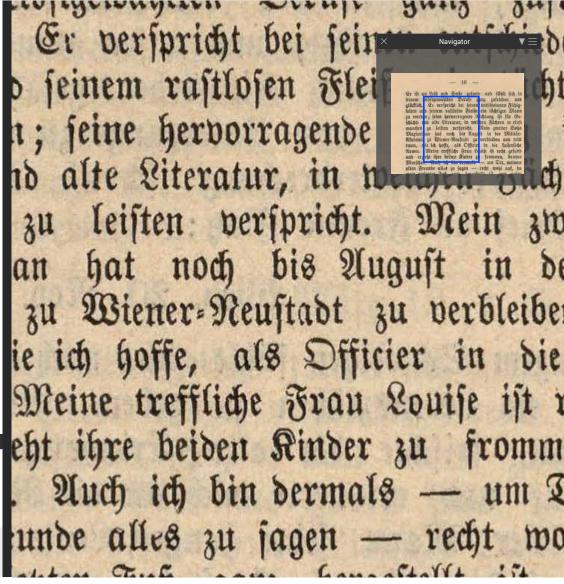
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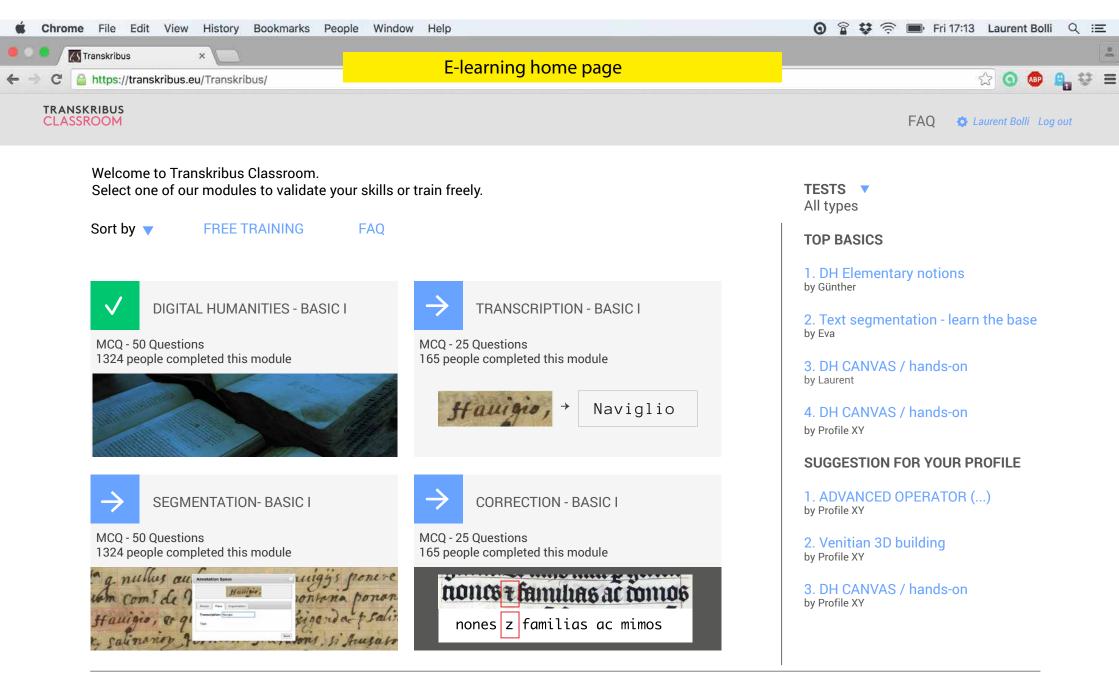
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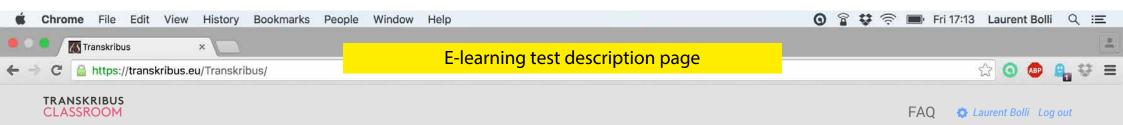
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TRANSCRIPTION - BASIC I

READ FAQ BEFORE STARTING

Goal:

This test is intended to evaluate your basic knowledge in transcription and help you learn the process.

Duration: 20 minutes / 50 questions

Description:

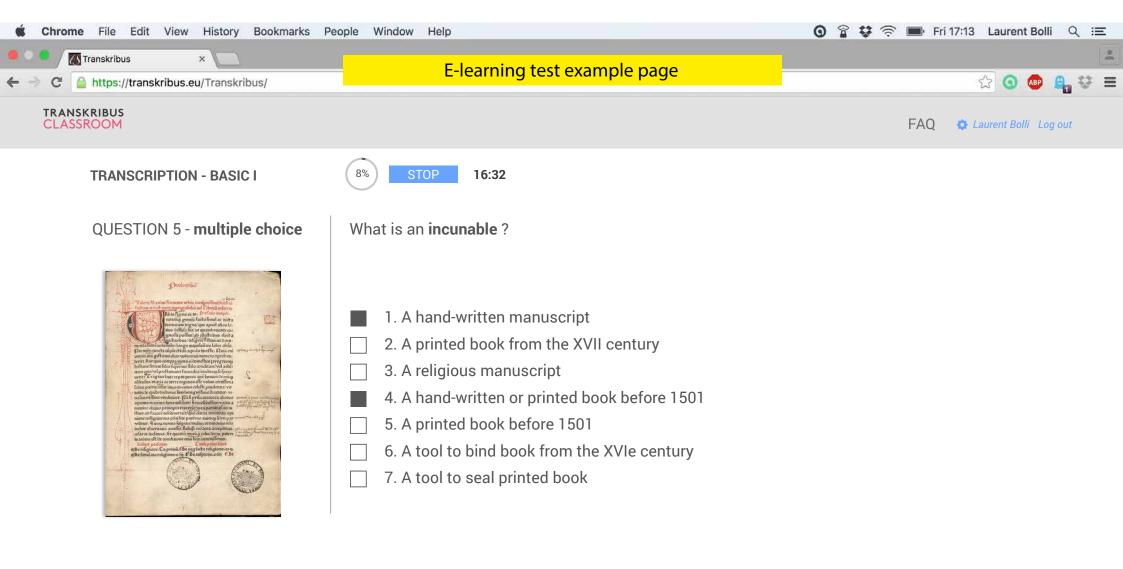
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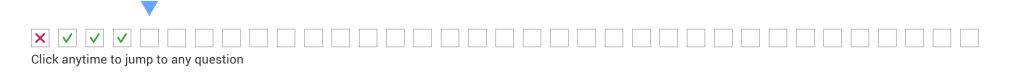
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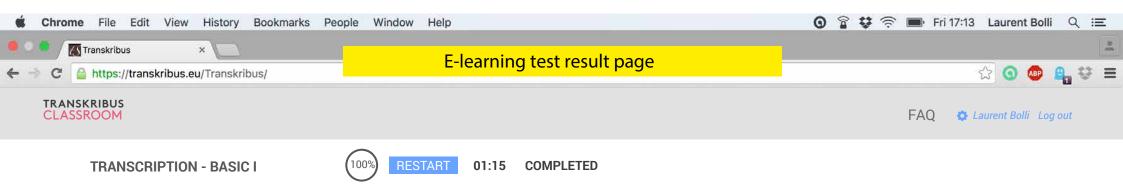
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RESULTS

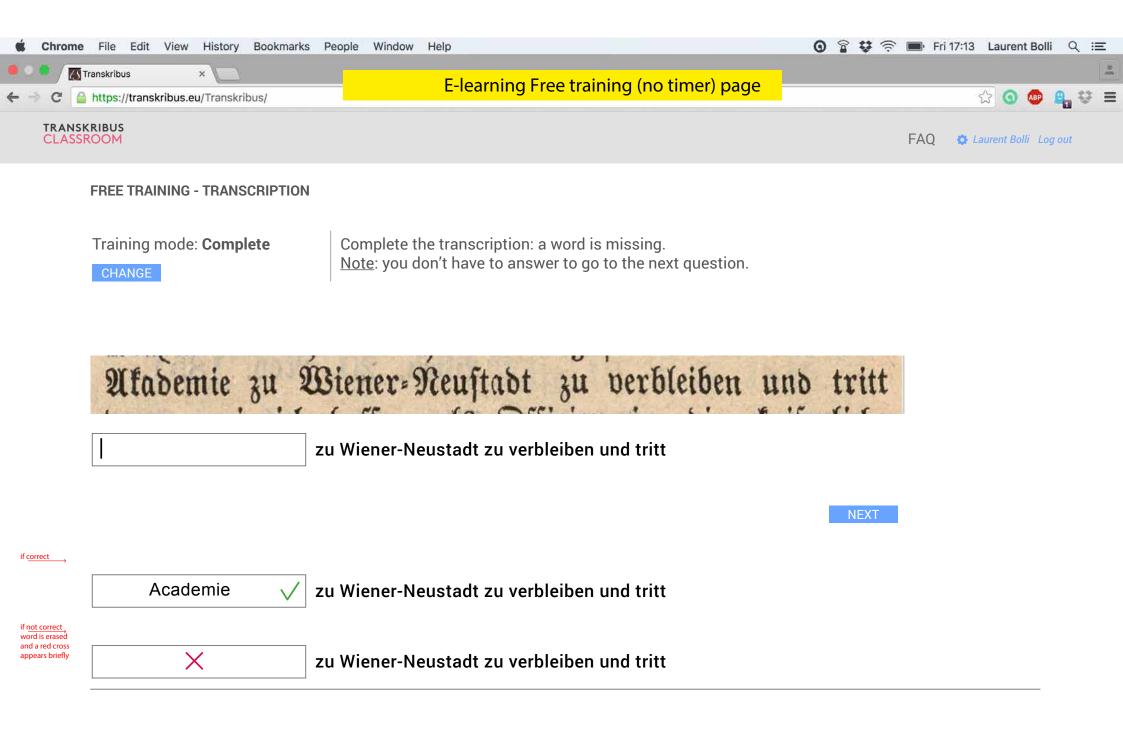
Thank you for your efforts!

Unfortunately, your score is under 95%. Restart the test to validate your transcription skills and get access to more interesting documents.



Questions to review:

01: Compare images and answer	SEE ANSWER
09: Complete the transcription	SEE ANSWER
10: True or false	SEE ANSWER
18: Transcribe	SEE ANSWER
23: Transcribe	SEE ANSWER
33: Select the correct abbreviations	SEE ANSWER
35: Transcribe the numbers	SEE ANSWER



F. Transkribus Online Widget - version 2



Il y a quelques années qu'en visitant, ou, pour mieux dire, en furetant Notre-Dame, l'auteur de ce livre trouva, dans un recoin obscur de l'une des tours ce mot, gravé à la

5 main sur le mur :

1

Original version

Ces majuscules grecques, noires de vétusté et assez puissamment entaillées dans la pierre, je ne sais

Your version

puissamment entaillees dans la pierre, je ne sais
 quels signes propres à la calligraphie gothique empreints
 dans leurs formes et dans leurs attitudes, comme pour
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 avait écrites là, surtout le sens lugubre et fatal depuis

tantôt deux cents ans avec les merveilleuses églises du moyen âge. Les mutilations leur viennent de toutes parts, du

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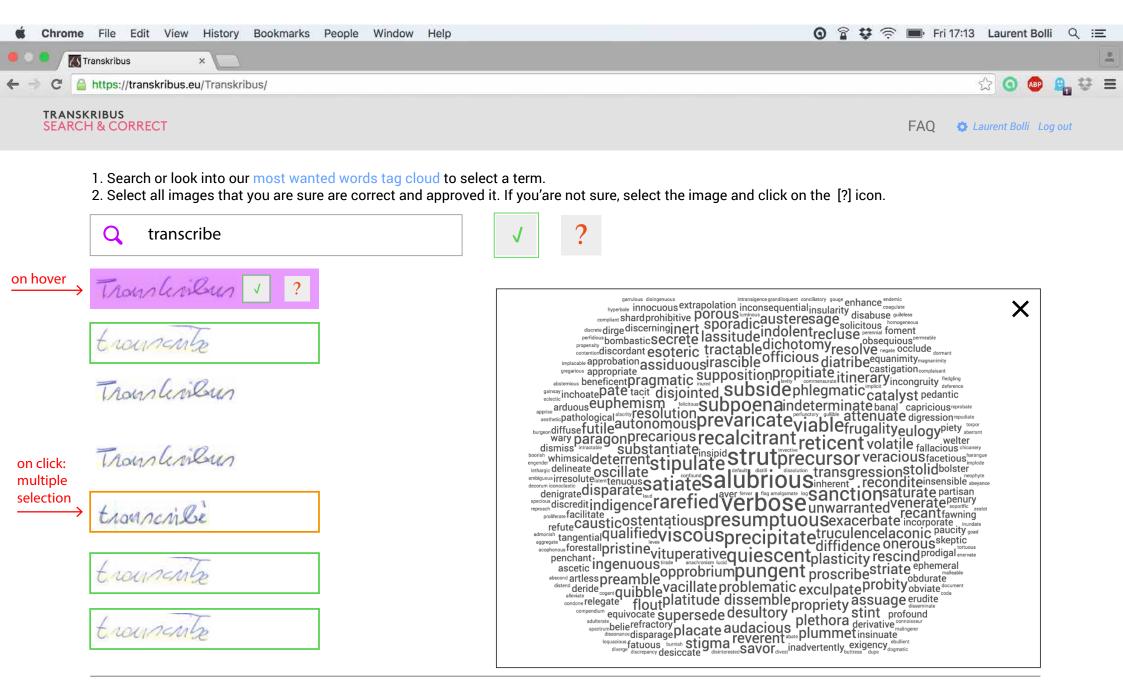
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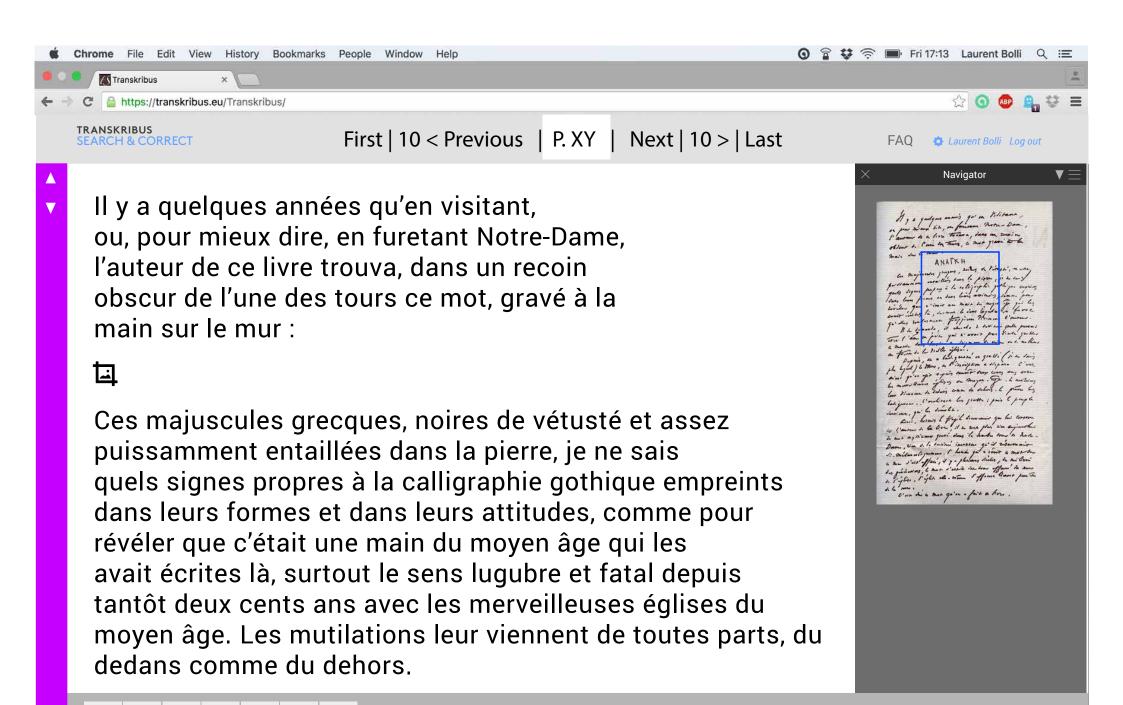
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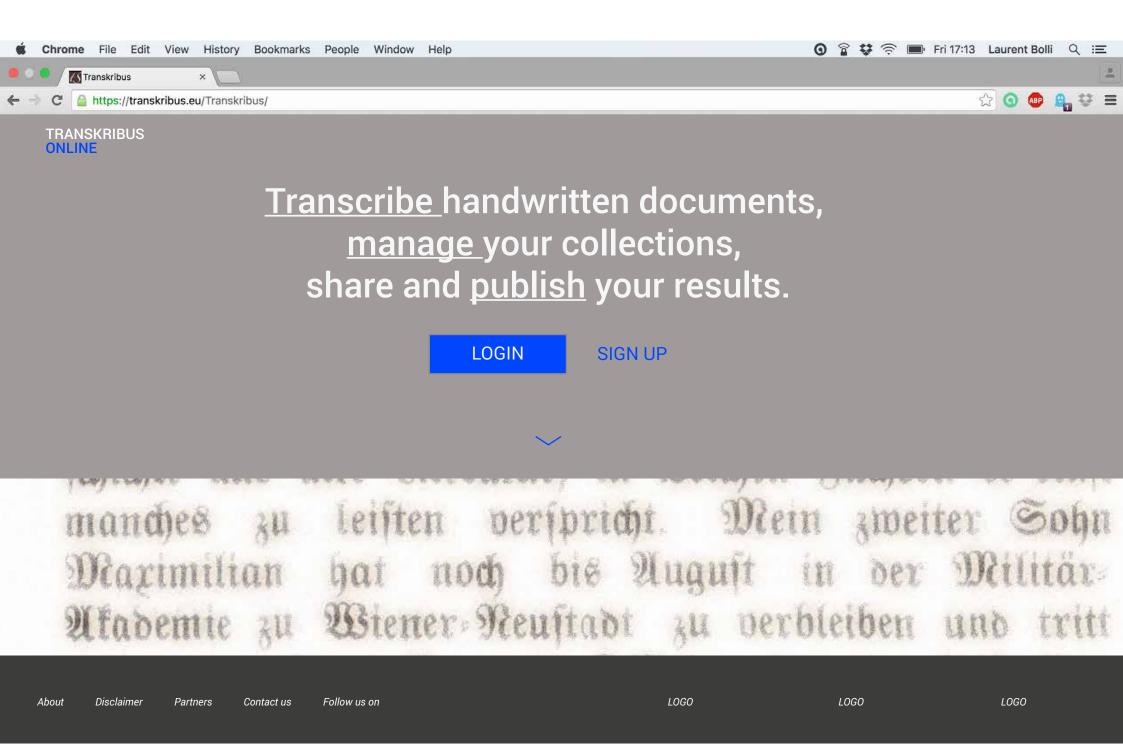


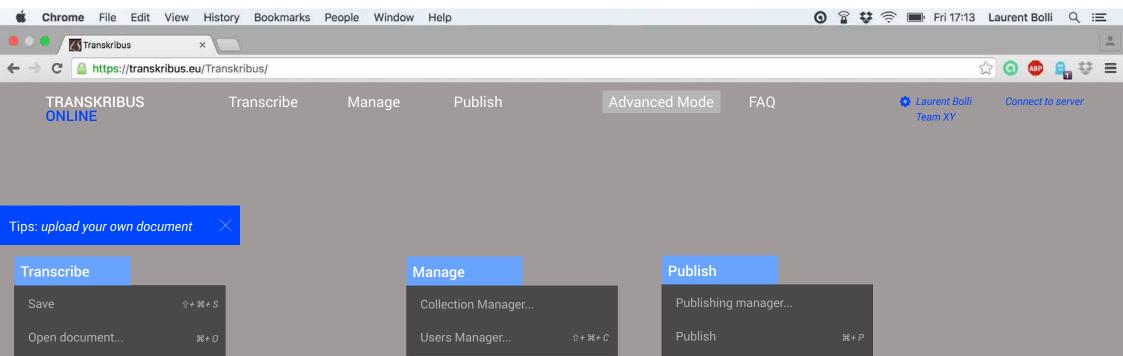
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G. Transkribus Online New GUI



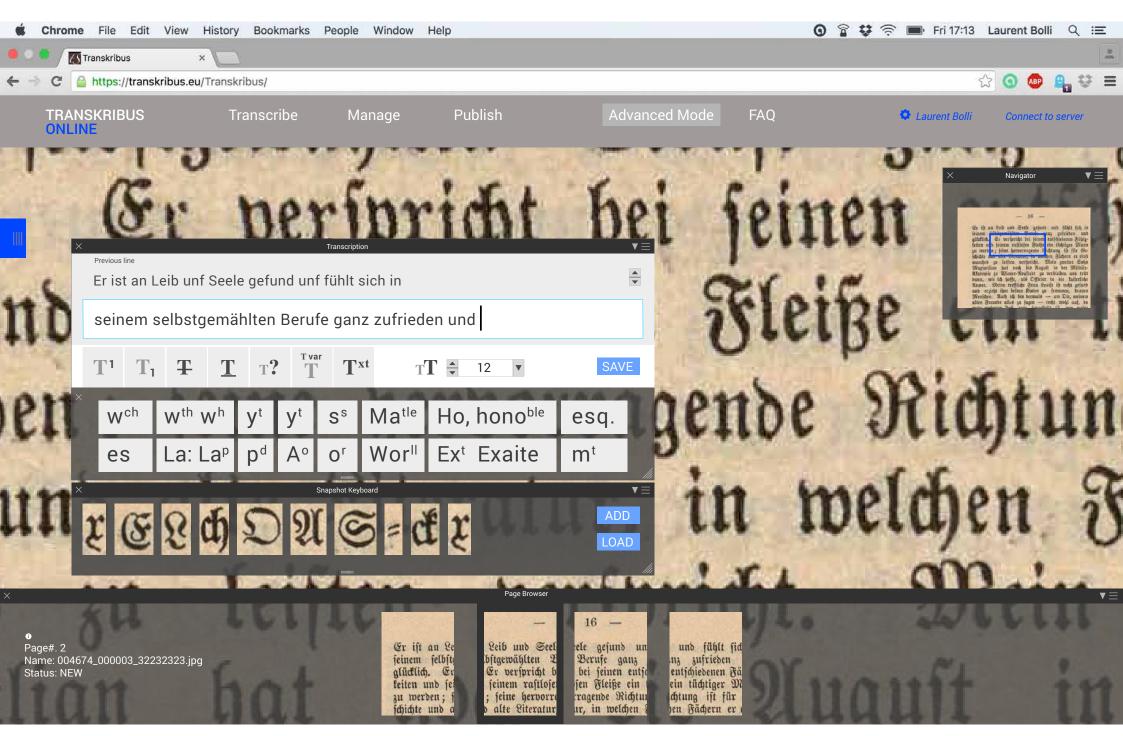


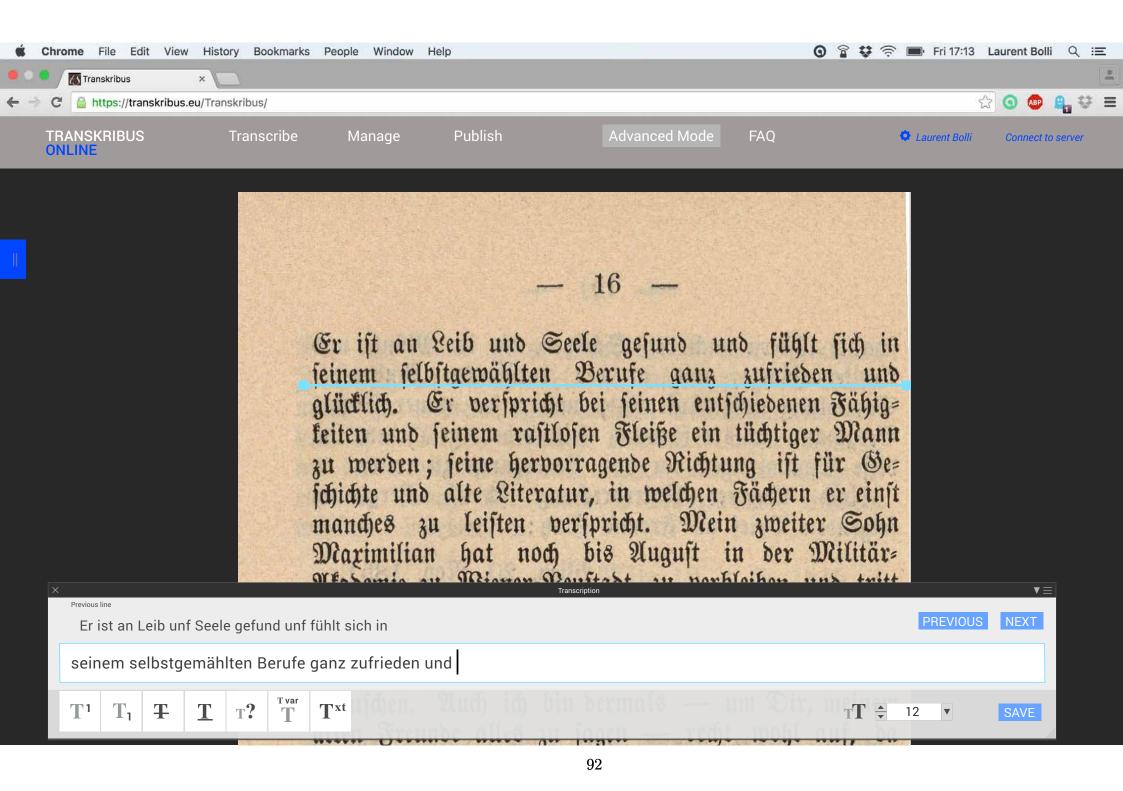
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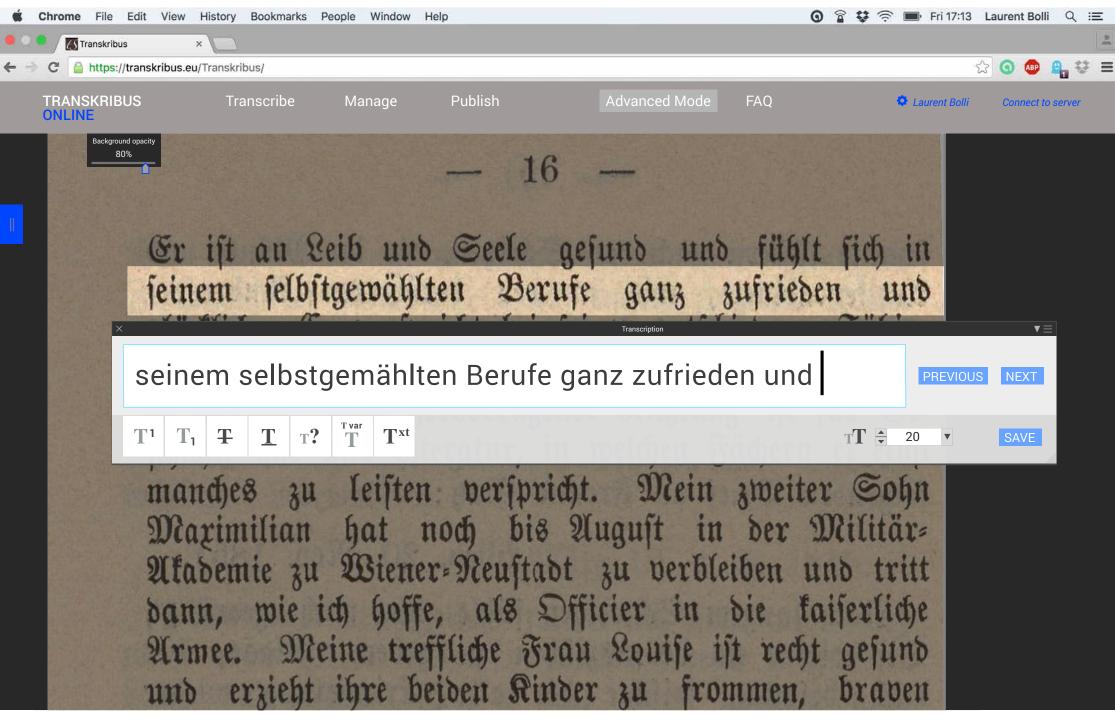
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H. Interface Landing Page Dashboard



ABOUT

Transkribus Search & Extract module is an interface that allows you to extract information from

a given archive. Explanation text about selection.



MY COLLECTIONS

My last Activity

USERS STATS

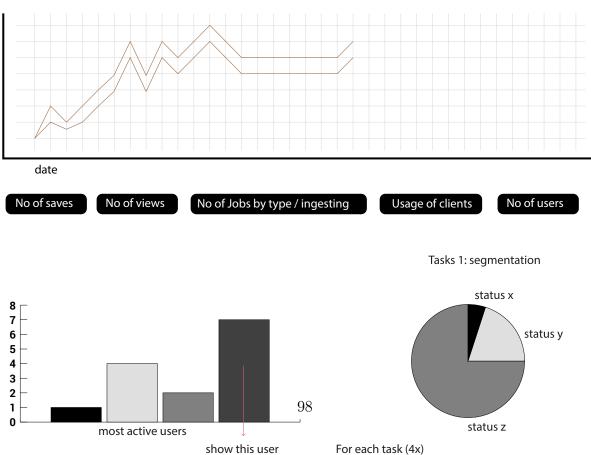
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Date - Time	User C	Role	Operation	Page ID X	Document ID Y	Collection ID Z
Date - Time	User D	Role	Operation	Page ID X	Document ID Y	Collection ID Z
Date - Time	User E	Role	Operation	Page ID X	Document ID Y	Collection ID Z
Date - Time	User F	Role	Operation	Page ID X	Document ID Y	Collection ID Z
Date - Time	User G	Role	Operation	Page ID X	Document ID Y	Collection ID Z

SHOW ALL

Name	Owner	Role	#doc	Users	SHOW STATS
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MY COLLECTIONS

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SCHOLARS

Are you transcribing historical documents? Handwritten or printed, from the middle ages or from the 20th century? Would you like to do this in a highly standardized, flexible and reliable way? And do you appreciate to get support from automated tools such as Handwritten Text Recognition and Layout Analysis?

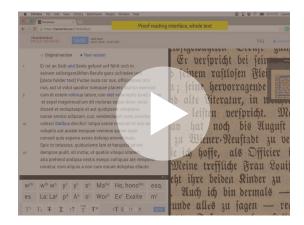


HOW-TO

Are you transcribing historical documents? Handwritten or printed, from the middle ages or from the 20th century? Would you like to do this in a highly standardized, flexible and reliable way? And do you appreciate to get support from automated tools such as Handwritten Text Recognition and Layout Analysis?

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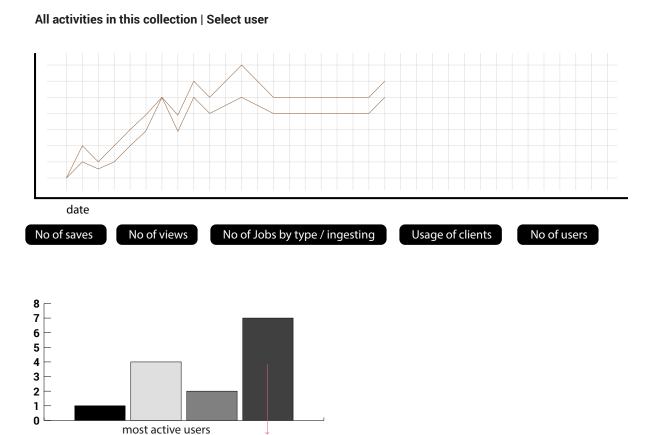
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I. Transkribus Interface Map

