Partizione Antica from Fototeca Supino: a pilot digital edition

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0. Introduction

The *Partizione Antica*, is a particularly interesting part of the wider Supino's Archival fund specialized in monuments' and works of art's photographs. The whole archive, counting more than 8000 total items, has been formed by Iginio Supino - he was the first funder of the History of Art Institute of the University of Bologna - for research and didactical purposes.

Respect to the whole Supino fund, the *Partizione Antica*, counting about 3000 items, has always been recognized as a peculiar subset, because of its aesthetic homogeneity and its previous provenance: all the photographs are albumens, casted in same-size paperboard framework, and they report handwritten annotations written from its first unknown collector, possibly a British art historian or art collector working at the end of the 19th century.

From the annotations it is possible to extract some relevant information about the collector which xml:id value is "PA_creator": visited places and dates, bibliographic reference used, other scholars or contemporary people cited, but also some interesting information about the art collector's world (paid prices of pieces, their movement, etc.).

A pilot Semantic Digital Edition of some photographs has been developed in order to show the possibilities of facilitating the navigation of the whole archive through paths offered by the annotations on the verso and by the entities reported.

To realize this project have been used some tools in support listed below:

- <u>Transkribus</u>: for the handwritten text recognition and the image-text encoding
- Oxygen: to validate XML/TEI files and perform Xquery
- Github: to store material of the project at https://github.com/enri-ca/DTH_PA
- <u>EVT-Edition Visualization Technology tool</u> to offer a sample of the possible visualization.

1. Structure overview

The present model assumes that each photograph is transcribed within a single XML/TEI file warranting both possibilities either to study them as a unit or put them together in a structure for overall analysis. Two options have been offered to group the text:

- a. the first one, in a <teiCorpus</pre> structure to guard the <teiHeader</pre> element for any single item (use "01_CreationCorpus_fromCollection.xquery" file and normalizations rules);
- b. the second one, to allow the publication via EVT, structured as a more classic TEI file, with several <text> elements corresponding to the encoded items (use "05_CreationGroups_title.xquery" file and normalizations rules).

Each item and text are identified uniquely with an xml:id="" attribute composed by recalling the original title in teiHeader/fileDesc/titleStmt/title[@type='main'] and adding a suffix (" ph" or " tx").

The images have been originally encoded with the <facsimile> element, with partition of space in <surface> element and sub-partitions in <graphic> and <zone> elements; the zone are also characterized by the attributes @rendition (with values

¹ Zani, E. (2022). Partizione Antica from Fototeca Supino: a pilot digital edition https://enrica.github.io/dist/. https://github.com/enri-ca/DTH PA

"printspace|Graphic|TextRegion|Line") and @subtype (with value "paragraph") as shown in the complete XML/TEI files in the Github repository²: nevertheless, for the illustrative purposes of this project, a simpler version of the file, extracted from Transkribus without zone and regions, has been used³.

Normalizations rules

Some normalizations of the files extracted from Transkribus have been needed in order to have a correct visualization in EVT⁴ such as:

- .JPG strings are erased
- @n="1" and @n="2" are transformed in @n="r" and @n="v"
- <unclear> elements have been completed with the attribute-value pair @reason="illegible"
- <quote> elements have been transformed in <q>

Other interventions are needed to structure the <div> blocks as explained in 2. Structural features (1.2.1 and 1.2.2).

1.1. Outline of a single <TEI> photograph

1.2. Outline of the collective files

1.2.1 <teiCorpus> with several <TEI>

² The files completed with regions and zones are available in the DTH_PA/0_source_data/2_xml-tei_sample_items/from_Transkribus/TEI-ALTO-PAGE_withZones/ folder.

³ The simplified files used for this project are available in the DTH_PA/0_source_data/2_xml-tei_sample_items/from_Transkribus/TEI-ALTO-PAGE_withZones/ folder.

⁴ Other validation problems also could be solved such as: 1. Erasing, month="0" year="0" day="0" strings; 2. normalizing <pb> @xml_id values to avoid blank spaces or to start with a number (error alert "value of attribute "xml:id" is invalid; must be an XML name without colons", "value of attribute of type ID contained multiple tokens".

1.2.2 <TEI> with several <text>s

1.3. Physical boundaries

1.4.1. Recto-verso breaks <pb>

```
<pb xml:id="id r|v" n="r|v"/>
```

The xml:id attribute contains the file name of the image representing the recto/verso of the photograph, without extension. The @n attribute has been valorized with "r|v" values for recto and verso.

1.4.2. Line breaks <1b>

```
<lb facs="#facs 1 1 19" n="N001"/>
```

Since the final web presentation could require the association between lines of text and images, each line in the original source has been market by a line break element <1b/>
reporting attributes such as facs and n, useful for their connection with the facsimile image.

Due to the peculiar handwritten nature of the original text, where does not occur any line break in the middle of a word, it has been possible to avoid choices about hyphenation.

2. Structural features

2.1. <div> blocks

<div> blocks have been used to structure the different blocks of information carried by the photographs. Inevitably, logical and physical structure influence each other reciprocally, so it is common to have an image and possibly a caption or other typed information on the recto, and handwritten annotations on the verso.

2.1.1 Photo rectos: <div> @type="recto" and @type="caption"

The photograph recto, whenever it brings some texts, has been encoded within a <div> element with "recto" as @type attribute value; the eventual caption has been encoded within a second level <div> element with "caption" as @type attribute value.

2.1.2 Photo versos: <div type="annotation"> and

The photograph verso has been characterized with a <div> element with "annotation" as @type attribute value. Within this <div> element, <head> and elements have been used.

In the case a different medium of writing has been detected, the element has been completed with the @hand="late".

2.2. Quotations <q>

A block of text quoted from somewhere else (typically inscriptions), are encoded within a < q > element.

2.3. Figure and drawing blocks <figure>

Hypothetical drawings, findable in other not yet encoded photograph items, should be treated as follow:

3. Editorial markup

The editorial markup encodes features of the text that are the result of an editorial evaluation.

3.1. Abbreviations and relative expansions

Abbreviations <abbr> have been encoded together with their expansion <expan> forms within the <choice> "over"-element.

3.2. Uncertainty

Due to the handwritten text, more than to support or conservative issues, some unclear passages are present. They have been encoded with <unclear> element

together with the key attribute-value @reason="illegible".

```
<unclear reason="illegible">Ansor</unclear>
```

3.3. Correction, errors, repetitions, missing text

The sample analyzed has not presented this kind of challenges.

This section is open to further indications in the case of a complete treatment of the archive will require it.

4. Metadata

Metadata are encoded within the <teiHeader> element. Here his ideal structural overview:

However, the c> the c> as well as the <xenoData> are
stored in separate files and, where possible, included thanks to the element
<xi:include/>. In those cases, the real outline of the <teiHeader> will be then:

4.1. Title information

For the comprehensive file, the title has been as follow completed with the principal researcher involved:

For the single photographs, the title and the xml-tei file name have been composed putting together:

- a. Normalized shelfmark e.g. PA_Grecia I 106
- b. Inventory number e.g. sup 2470

```
c. = Grecial 106 sup2470
```

In this way, the alphabetic order corresponds to the succession of the archival folders and files and allow an easier visualization.

4.2. Publication statement

4.3. The <msDesc> element

The <msDesc> element is structured as follow:

4.3.1. The <msIdentifier> element

In the case of the single <TEI> file, the <msIdentifier> element could report the <idno> element with call number or inventory identifier from F records.

4.3.2. The <msContent> element

In the case of the single <TEI> file, the <author> and <title> elements should report the single photograph metadata from F records.

4.3.3. Physical description

In the case of the single <TEI> file, the <pysDesc> element should contain higher structured description reporting the single photograph metadata from F records such as <support>, <extent>, <dimensions> elements.

4.3.4. Provenance/history

The element <history> provide a mean to date the manuscript and to describe its provenance up to the present repository. What follow is a possible example of completion and should be revised.

4.3 Semantic layer markup

The verso-annotations report full of references to entities. Due to the already done indepth cataloguing of structured metadata in other projects about artists, works of art, photographers, places and so on, the semantic markup concentrates on "contemporary to the PA creator" people, places, dates, and organizations, hoping this could help to build new structured knowledge to be used to explore their identity.

However, due to the special focus on history of art and photography of the fund, the <object> element has been exploited figuring out the future enrichment of the depicted works of art data from the already structured OA and F records.

4.3.1. People, organizations, objects, places

```
[TEI/teiHeader/profileDesc/particDesc|settingDesc] The description of the different entities is embedded within the cparticDesc> or csettingDesc> elements.
```

Persons, organizations, objects and places have been stored as <person>, <org>, <object>, and <place> elements in respectively <listPerson>, <listOrg>, <listObject>, and <listPlace> elements; each <person>, <org>, <object>, and <place> are uniquely identified by an xml:id attribute which value is used, preceded by # - by means of the @ref attribute in <rs type="person|organization|object|place">, or <persName>|<org>|<org>|<object>|<placeName> elements within the text - to refer to the entity.

```
[TEI/teiHeader/profileDesc/particDesc|settingDesc]
cprofileDesc>
  <particDesc>
     <listPerson>
           <person xml:id="pers1 id">
                <persName>pers1 name
           </person>
     <listPerson>
     tOrg>
         <org xml:id="org1 id ">
                  <orgName>org1 name
            </orq>
     tOrg>
     <listObject>
           <object xml:id="obj1 id">
                <objectName>obj1 name
           </object>
     <listObject>
  <particDesc>
  <settingDesc>
     <listPlace>
           <place xml:id="place1 id">
             <placeName>place1_name
           </place>
     </listPlace>
  </settingDesc>
</profileDesc>
```

4.3.2. Organizations

<org> elements are also characterized by @type attribute with possible values:
"collection|museum|photographer|collector"; each type has a dedicated sublist.

4.3.3. Objects

<objects> have a xml:id attribute as unique identifier recalling:

a. for works of art catalogued in the Zeri catalogue, the OA record number added

b. for works of art not catalogued in the Zeri catalogue, a conventional but legible string e.g.

c. for negative of the photograph, a conventional string composed by neg+{photographer'sName}+{negativeNumber} e.g.

This encoding will be probably useful for enriching the digital edition with information coming from external sources.

4.3.4. Bibliographic references

The bibliographic references used by the "PA_creator" to document its annotations have been encoded within a <bibl> element recalling by the value of the @source attribute, the @xml:id of the <bibl> element listed in the tistBibl> element

5. <xenoData>

<xenoData> element has been added to allow the enhancement of the digital edition with
entities linked open data in rdf.

Predicates and authorities used for the rdf statements, comes from the following namespaces declared in the <TEI> element:

```
xmlns:dbo="http://dbpedia.org/ontology/"
xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:foaf="http://xmlns.com/foaf/0.1/"
xmlns:geonames="https://www.geonames.org/"
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
xmlns:viaf="http://viaf.org/viaf/"
xmlns:wikidata="https://www.wikidata.org/wiki/"
```

Authorities have been used specially for:

- Wikidata: for monuments, works of art or other uncovered entities
- Geonames: for places
- VIAF: for persons and photographer

In addition, for bibliographic entities, oclc id has been added when possible.