

## Data Dictionary for Rhizome Artbase Audit Elements

<b>Artbase element - from Audit parameters</b>	Browser plug-ins
<b>Rationale</b>	Artworks relying on browser plug-ins are the most likely to have a high degree of damage as a result of rendering difficulties due to unsupported plug-ins; in many cases these works are completely inaccessible. This category identifies which plug-ins are needed for each artwork.
<b>Definition</b>	Browser plug-ins required for full rendering/functioning of this artwork
<b>Source Field in audit sheet</b>	if applicable, plugins listed in "Look Out For" Audit sheet column for this artwork
<b>PREMIS semantic unit (container)</b>	environmentDesignation
<b>PREMIS semantic components</b>	environmentName
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	environmentName
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	none, java, Flash, Shockwave, Quicktime
<b>User-facing Label in Rhizome Website</b>	Browser plug-ins : (Broken / Damaged)
<b>Repeatable? (y/n)</b>	y/ note: repeat at container/semantic unit level in PREMIS
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Browser plug-ins completeness
<b>Rationale</b>	<p>During the 2015-16 audit, this attribute indicated “broken” for artworks with plug-in reliant content, so that this field could be mapped directly to a label of “broken” in wikibase, which would then map to/generate a “plug-in issues” user-facing label in Rhizome’s website.</p> <p>However, another use of this category would be for indicating if plug-in-reliant content within an artwork functions correctly in a browser environment with the plug-ins installed (for example testing the artwork in Chrome with Flash installed). One difficulty is that applying this logic for this property would result in labelling artworks that require Flash as “complete”, which would not generate a user-facing label “broken”, indicating browser-reliant content. To address this problem, Rhizome could add another element, such as: “browser plug-in functioning”, which would allow for specifically evaluating plug-in operation by separating evaluation of the functioning of the plug-in in the required environment, from the assumption of a browser without plug-ins as a baseline performance environment.</p>
<b>Definition</b>	During the 2015-16 audit, this property was used to indicate whether an artwork relied on browser plug-ins in addition to the baseline testing environment of Mozilla Firefox 42.0.
<b>Source Field in audit sheet</b>	if applicable, plugins listed in "Look Out For" Audit sheet column for this artwork
<b>PREMIS semantic unit (container)</b>	(this element not mapped in PREMIS)
<b>PREMIS semantic components</b>	(this element not mapped in PREMIS)
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	(this element not mapped in PREMIS)
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	(this element not mapped in PREMIS)
<b>User-facing Label in Rhizome Website</b>	-
<b>Repeatable? (y/n)</b>	y/ note: repeat at container/semantic unit level in PREMIS
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Browser plug-ins importance
<b>Rationale</b>	The position and significance of plug-in-dependent elements within an artwork as a composite object (in this case, a website), as well as the variables of the plug-in-dependent elements' locations within each page within the artwork/website, is significant for evaluating & describing the degree of damage to the overall artwork. This property measures the significance of the plug-in-dependent aspects to an overall artwork.
<b>Definition</b>	A qualitative expression of the importance of the plug-in-reliant content to the artwork as a whole.
<b>Source Field in audit sheet</b>	if plug-in type listed for this artwork, corresponding "relevance" values
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	essential, moderate, not important, n/a
<b>User-facing Label in Rhizome Website</b>	-
<b>Repeatable? (y/n)</b>	y/ note: repeat at container/semantic unit level in PREMIS
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Internal resources- completeness
<b>Rationale</b>	Earlier archiving of artworks, or restoration of archived works, may have failed to capture all resources (such as images, documents, and internally-linked pages) included within the identified domain of an artwork. This property measures the overall degree of completeness of these resources, by visual observation of browser-rendered webpages, to look for indicators of missing resources such as broken image links, 404 pages, and non-functioning links to other html pages within this website.
<b>Definition</b>	A qualitative expression of the degree of completeness of the internal resources within an artwork/website.
<b>Source Field in audit sheet</b>	missing resources: quality
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	complete, cannot be determined, broken, n/a
<b>User-facing Label in Rhizome Website</b>	Internal Resources : (Broken / Damaged)
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Internal resources- importance
<b>Rationale</b>	In some cases, an auditor may be able to determine that there is missing content in an artwork, but may also judge that this missing content did not contribute an “essential” function to the artwork viewed as a whole. This property is meant to provide a metric for this subjective but informed appraisal by the auditor, in order to allow for a more expressive evaluation of the consequences of an observed degree of damage to a work, i.e to refine an unqualified assessment of “broken”.
<b>Definition</b>	A qualitative expression of the importance of the internal resources evaluated, to the artwork as a whole.
<b>Source Field in audit sheet</b>	missing resources: relevance
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	essential, moderate, not important, n/a
<b>User-facing Label in Rhizome Website</b>	-
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Degree of Risk from External Links
<b>Rationale</b>	<p>Reporting on broken hyperlinks within a given artwork at any point in time would require continual/repeated evaluation of archived artworks linked to content on the live web. Although this process could be automated, Rhizome believes that an automated approach, based on numeric evaluation of working vs. broken links, may not deliver meaningful assessment of artworks' content, given the specificity and variety of ways that internet-based artworks employ hyperlinks. Instead, this property allows for evaluating the overall importance of hyperlinked content as implemented by a particular artwork, based on the auditor's perception of the role of the links in the work.</p> <p>As a label for users, this property relies on the assumption that potential viewers understand and expect the inherent volatility of web content; the label provides a simple index so that viewers can then apply their own experience to more quickly assessing link rot in an artwork.</p> <p>Factors informing the value assigned to this property are specific to each artwork as observed by the auditor, but include aspects such as: the necessity of linked content to information or themes essential to the artwork, structural necessity of links within a work, or in some cases the ratio of linked to stable content in an artwork. In general, "low" indicates little risk (link rot is always a risk, but this work is primarily self-contained); "medium" indicates that external pages add some value, but are not the main point of the work; "high" indicates the potential for extensive damage (this work is predominantly constructed through links to external pages that cannot be preserved).</p>
<b>Definition</b>	A qualitative expression of the artwork/website's degree of dependence on external resources, and therefore the risk posed in case of link rot.
<b>Source Field in audit sheet</b>	As a label for users, this property relies on the assumption that potential viewers understand and expect the inherent volatility of web content; the label provides a simple index so that viewers can then apply their own experience to more quickly assessing link rot in an artwork.
<b>PREMIS semantic unit (container)</b>	
<b>PREMIS semantic components</b>	Factors informing the value assigned to this property are specific to each artwork as observed by the auditor, but include aspects such as: the necessity of linked content to information or themes essential to the artwork, structural necessity of links within a work, or in some cases the ratio of linked to stable content in an artwork.
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase

<b>PREMIS Semantic Component for expected values</b>	In general, "low" indicates little risk (link rot is always a risk, but this work is primarily self-contained); "medium" indicates that external pages add some value, but are not the main point of the work; "high" indicates the potential for extensive damage (this work is predominantly constructed through links to external pages that cannot be preserved).
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	
<b>User-facing Label in Rhizome Website</b>	External Links Risk : (High / Medium / Low)
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	External media- completeness
<b>Rationale</b>	Like “internal resources - completeness”, this property also measures the intactness of media such as sound, video, or still image files within an artwork, but the difference is that this property indicates that the original sources of those media were located outside the domain of this artwork/website, rather than contained as an internal resource within the work.
<b>Definition</b>	A qualitative expression of the degree of completeness of the external media embedded within an artwork/website, such as embedded links to sound, video, or still image files that are hosted outside the domain of this artwork/website.
<b>Source Field in audit sheet</b>	embedded media: quality
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	complete, cannot be determined, broken, n/a
<b>User-facing Label in Rhizome Website</b>	Embedded Media : (Broken / Damaged)
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)



<b>Artbase element - from Audit parameters</b>	External media- importance
<b>Rationale</b>	This property serves the same function as “internal resources- importance”, but applies to resources supplied to the artwork by external media sources.
<b>Definition</b>	A qualitative expression of the importance of the external media to the artwork as a whole.
<b>Source Field in audit sheet</b>	embedded media: relevance
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	essential, moderate, not important, n/a
<b>User-facing Label in Rhizome Website</b>	-
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	External data services- completeness
<b>Rationale</b>	Another type of externally-provided resource that may be included within artworks are external data feeds, such as social media feeds from twitter or facebook, for example, or map data, for example from Google Maps.
<b>Definition</b>	A qualitative expression of the observed degree of completeness for external data feeds (such as twitter or FB) embedded in this artwork.
<b>Source Field in audit sheet</b>	external services: quality
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	complete, cannot be determined, broken, n/a
<b>User-facing Label in Rhizome Website</b>	Data Feeds : (Broken / Damaged)
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	External data services- importance
<b>Rationale</b>	This property serves the same function as “internal resources- importance”, but applies to resources supplied to the artwork by external data sources.
<b>Definition</b>	A qualitative expression of the importance of external data feeds to the artwork as a whole.
<b>Source Field in audit sheet</b>	external services: relevance
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	essential, moderate, not important, n/a
<b>User-facing Label in Rhizome Website</b>	
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Location
<b>Rationale</b>	Many of the artworks accessible through Rhizome's Artbase are not stored as files on Rhizome's servers, but remain at an external location determined by their creators. This property notes the location of an archived artwork within the directory structure of Rhizome's servers if it is an archived copy, or else the URL for an artwork on the live web in cases of works not stored on our servers.
<b>Definition</b>	The storage location of the files comprising the artwork as a composite digital object, either as path within the Artbase file structure, or URL on live web.
<b>Source Field in audit sheet</b>	(not in audit sheet)
<b>PREMIS semantic unit (container)</b>	storage
<b>PREMIS semantic components</b>	contentLocation/ contentLocationType
<b>Data constraint/format</b>	cL type= EXT3 or "external link"/ cL value = artbase path or external URL
<b>PREMIS Semantic Component for expected values</b>	contentLocationValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	archived copy, external link
<b>User-facing Label in Rhizome Website</b>	not represented
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Current Location
<b>LIDO</b>	<lido:repositoryWrap>
<b>DC property</b>	Resource Identifier
<b>MODS</b>	<mods:location><mods:url>
<b>VRA-CORE</b>	<vra:locationSet><vra:location type="repository"> <vra:name type=""> <vra:refid type=""> in <vra:work>
<b>EAD</b>	<repository> (in <eadheader> and <archdesc>)

<b>Artbase element - from Audit parameters</b>	Documentation
<b>Rationale</b>	<p>Rhizome's Artbase started around 1999 with an open-submissions policy. As a result, some of the objects in the collection do not conform to any articulable selection criteria, and the variety of objects contained in the Artbase represent a wide range of relationships to the concept of "technology", which can cause confusion about the nature of objects encountered by visitors to the collection at Rhizome's website.</p> <p>Because the web is arguable an inherently referential medium, establishing a clear line between "internet-based documentation of events/objects in the physical world" and "internet-based artwork" is impossible, and counter to Rhizome's mission. Nevertheless, the purpose of this property is to provide an indicator in cases of readily-identifiable instances of digital objects whose primary purpose is the representation of another entity, rather than the creation of an "internet-based artwork" (similar to the Work/Image distinction in VRA-Core.<a href="https://www.loc.gov/standards/vracore/VRA_Core4_Intro.pdf">https://www.loc.gov/standards/vracore/VRA_Core4_Intro.pdf</a>)</p>
<b>Definition</b>	An indication of the website/object's status as documentation or "internet-based artwork"
<b>Source Field in audit sheet</b>	"not web"
<b>PREMIS semantic unit (container)</b>	significantProperties
<b>PREMIS semantic components</b>	significantPropertiesType
<b>Data constraint/format</b>	controlled vocabulary = items in wikibase
<b>PREMIS Semantic Component for expected values</b>	significantPropertiesValue
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	yes, no
<b>User-facing Label in Rhizome Website</b>	not represented
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)

<b>Artbase element - from Audit parameters</b>	Stoplight Values
<b>Rationale</b>	Given the fragile nature of digital artworks, many of the artworks in Rhizome's collection may exhibit significant rendering differences from the rendering generated by the artworks' creators at the point of a work's ingest into the Artbase. Stoplight-value labels offer a simple visual index on each artwork's Artbase page, to indicate an artwork's overall "condition", like a damage assessment, so that potential visitors are better informed about the extent to which the representation of a digital object via the most commonly-used contemporary software matches the expected or observed rendering generated by software commonly used at the time of the artwork's creation.
<b>Definition</b>	A high-level qualitative index of the overall access quality of an artwork/website.
<b>Source Field in audit sheet</b>	(not in audit sheet)
<b>PREMIS semantic unit (container)</b>	eventOutcomeInformation
<b>PREMIS semantic components</b>	eventOutcome
<b>Data constraint/format</b>	controlled vocabulary = image-based labels for website
<b>PREMIS Semantic Component for expected values</b>	eventOutcome
<b>Controlled Vocabulary for Expected Values (items in wikibase)</b>	Red, Yellow, Green, No Stoplight
<b>User-facing Label in Rhizome Website</b>	image-based labels in website: red, yellow, green, no value (need icon for this)
<b>Repeatable? (y/n)</b>	n
<b>Obligation</b>	optional
<b>CDWA</b>	Condition/Examination History
<b>LIDO</b>	<lido:objectDescriptionWrap> or <lido:eventWrap>
<b>DC property</b>	Description
<b>MODS</b>	<mods:physicalDescription> or <mods:note>
<b>VRA-CORE</b>	<vra:descriptionSet><vra:description>
<b>EAD</b>	<physdesc> <processinfo> (in <archdesc>)