

Uitvoeringsmedium:

creation of a multilingual
vocabulary
for
performance media

Eric van Balkum



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@Podiumkunst_net



Podiumkunst.net

Vision

Enable the performing arts sector in the Netherlands to share their digital collections and stimulate reuse

Radio Filharmonisch Orkest
Groot Omroepkoor
NTR ZaterdagMatinee
AVROTROS Vrijdagconcert
Muziekcentrum van de Omroep
Muziekschatten.nl

omroep
muziek

THEATER
KRANT.NL

podium
kunst
.net

nederlands
jazz
archief

BEELD EN GELUID

muziekweb
de muziekbibliotheek van nederland

ALLARDPIERSON

DE COLLECTIES VAN DE UNIVERSITEIT VAN AMSTERDAM

TI
theater in
nederland
N

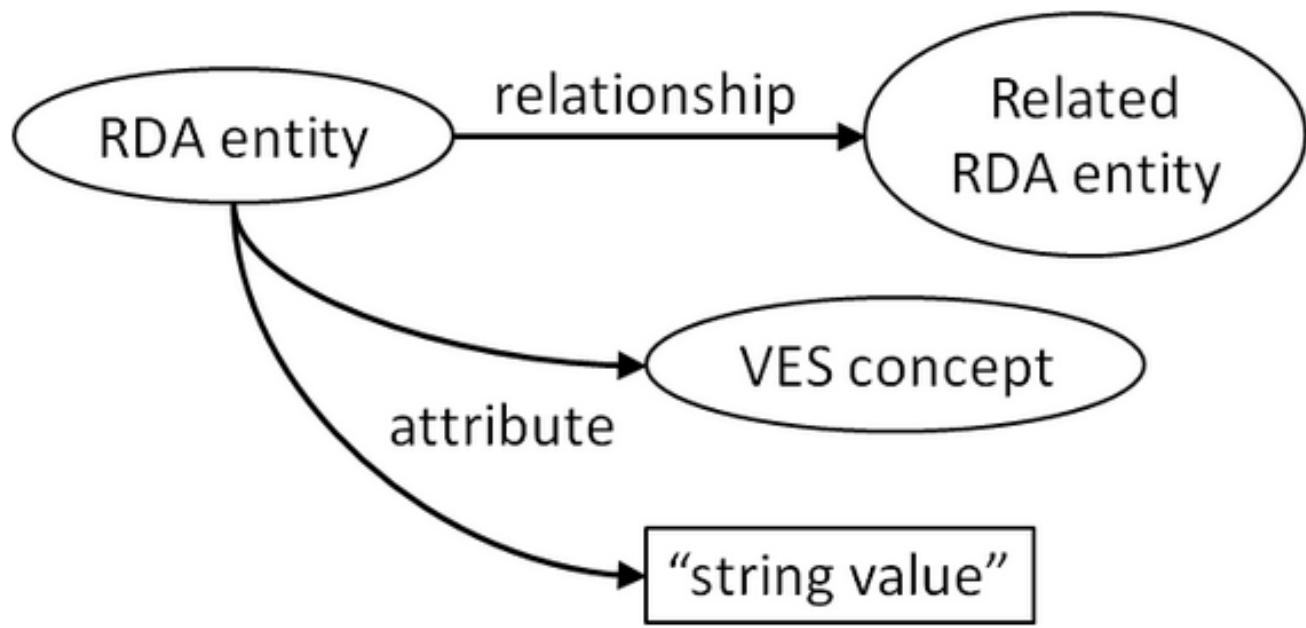
In 2025

- Podiumkunst.net is the network for the performing arts sector in the Netherlands
- large, medium and small cultural performing arts institutions and archives are digitally connected
- the target user groups know where to find the collections and are inspired by them
- the performing arts, heritage and design sector contribute to the *National Strategy Digital Heritage*

RDA-ontology implementation scenario

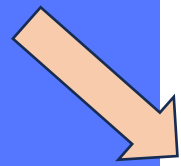
Scenario A: Linked open data

Schematic for Scenario A



Characteristics of Scenario A

Metadata description sets are expressed in **Resource description framework (RDF)** using IRIs taken from the **RDA registry**.



RDA-ontology

medium of performance: attributes

Entities > Work > medium of performance of musical content of representative expression

medium of performance of musical content of representative expression

Definition and Scope

An instrument, voice, or ensemble used, or intended to be used, for performance of musical content of a representative expression of a work.

Element Reference

IRI

<http://rdaregistry.info/Elements/w/P10220>

Domain

Work →

Alternate labels

has medium of performance of musical content of representative expression

Entities > Expression > medium of performance of musical content

medium of performance of musical content

Definition and Scope

An instrument, voice, or ensemble and the number of parts, performers and hands used, or intended to be used, to perform the musical content of an expression.

Element Reference

IRI

<http://rdaregistry.info/Elements/e/P20215>

Domain

Expression →

Alternate labels

has medium of performance of musical content
medium of performance

Value (term/iri) reflects full medium of performance

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medium of performance: basis



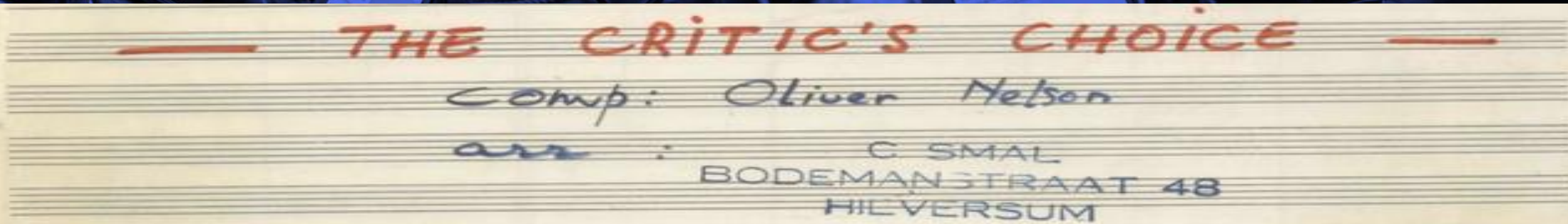
INSTRUMENT FAMILIES

+ Wind instruments	<u>22749</u> ◉
+ Percussion instruments	<u>12725</u> ◉
+ Stringed instruments	<u>11191</u> ◉
+ Elements of musical instruments	<u>3464</u> ◉
+ Keyboard instruments	<u>2307</u> ◉
+ Mechanical instruments	<u>493</u> ◉
+ Other instruments	<u>114</u> ◉
+ Mirlitons	<u>95</u> ◉
+ Electronic instruments	<u>59</u> ◉

DEWEY DECIMAL CLASSIFICATION

- 780 Music
 - 781 General principles and musical forms
 - 782 Vocal music
 - 783 Music for single voices
 - 784 Instruments and Instrumental ensembles and their music
 - 785 Ensembles with only one instrument per part
 - 786 Keyboard, mechanical, electrophonic, percussion instruments
 - 787 Stringed instruments (Chordophones)
 - 788 Wind instruments (Aerophones)
 - 789 *Not assigned or no longer used*

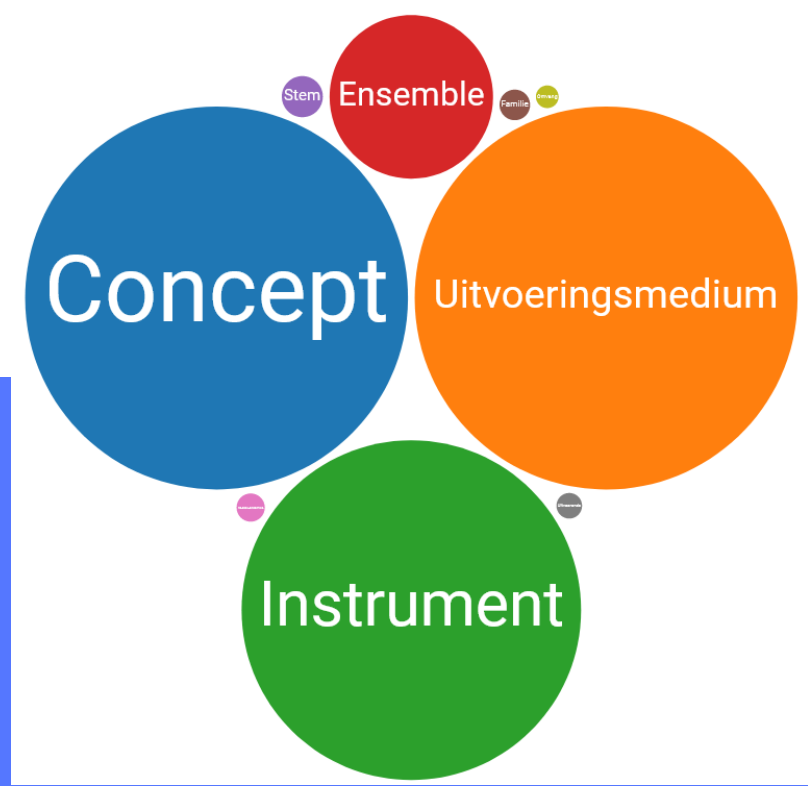
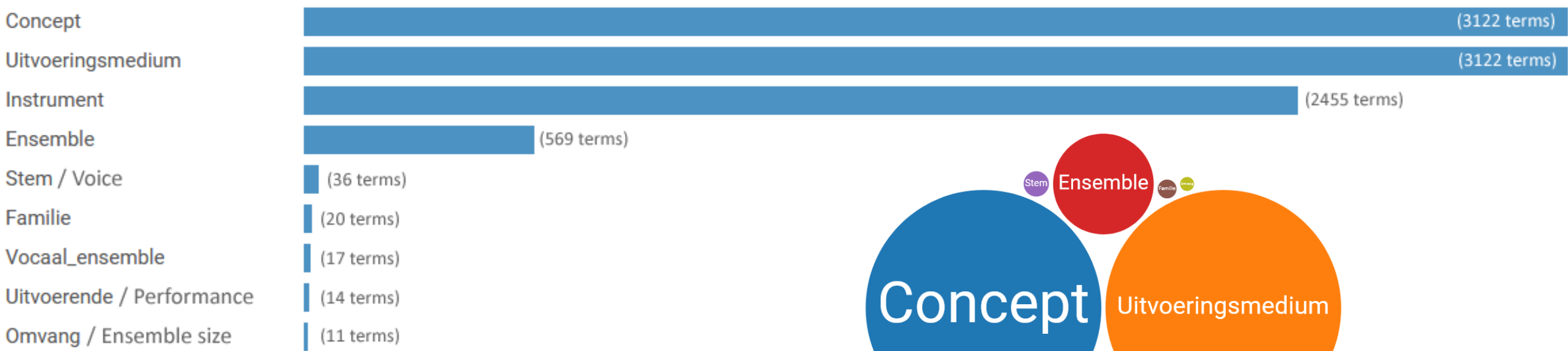
UITVOERINGSMEDIUM



- Six languages (**Dutch**, English, French, German, Italian, Spanish)
- Broader term for each vocabulary term (except for TopConcepts) [example](#)
- Terms in singular form for single instruments or single voices
- Terms in plural form for homogenous ensembles (= one type of instrument or voice)
Specify size (e.g. *Quintet* / <https://data.muziekschatten.nl/som/um1633>)
- Instruments in heterogenous ensembles represented by family name
(e.g. *Ensemble of woodwind, brass, string, percussion* / <https://data.muziekschatten.nl/som/um912>)
Distinguish between accompanied (*with accompaniment*) and unaccompanied vocal pieces
Specify instrumental accompaniment of a vocal piece (e.g. *Basso continuo* / <https://data.muziekschatten.nl/som/um278>)
- Separate term for each solo instrument with each orchestral accompaniment
(e.g. *Clarinet with wind band* / <https://data.muziekschatten.nl/som/um1513>)
- Pieces for a melody instrument and keyboard accompaniment are considered a heterogenous ensemble
(e.g. *Ensemble of woodwind and keyboard instrument* / <https://data.muziekschatten.nl/som/um897>)

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medium of performance: classes/types



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medium of performance: SKOS-structure

<u>skos:prefLabel</u>	NL / EN / DE / FR / IT / ES
<u>skos:altLabel</u>	NL / EN / DE / FR / IT / ES
<u>skos:broader</u>	um-iri
<u>skos:exactMatch</u>	IFLA-UNIMARC MOP / MIMO / Wikidata entity / AAT
<u>skos:closeMatch</u>	Muziekschatten-Dewey
<u>skos:scopeNote</u>	NL
<u>skos:inScheme</u>	categories: <i>e.g. Western instrument / Asian instrument / African instrument</i>
<u>rdf:type</u>	types: <i>e.g. instrument / voice / ensemble / vocal ensemble</i>

+ several **dterms**-properties for maintenance and history purposes

example

SPARQL-endpoint: <https://data.muziekschatten.nl/sparql>
(Github in development)

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medium of performance: Example

STEVE REICH

Proverb

: for 3 sopranos, 2 tenors, 2 vibraphones and 2 keyboards (or electronic organs)

elaborated example

rdfs:label

"Proverb : 3 sopranos, 2 tenors, 2 vibraphones and 2 keyboards (or electronic organs) - Steve Reich" ;

rdae:P20215	[rdf:type	data.muziekschatten.nl/som/um3093 ; # Zangstemmen met begeleiding @nl; Singing voices with accompaniment @en
	pmo:hasEnsemblecount	"2" ;
	pmo:hasRequiredPerformercount	"9" ;
	pmo:hasMediumOfPerformance	[rdf.type pmo:EnsembleMediumOfPerformance
	rdf.type	data.muziekschatten.nl/som/um3092 ; # Zangstemmen @nl; Singing voices @en
	rdf.type	data.muziekschatten.nl/som/um1633 ; # Kwintet @nl; Quintet @en
	pmo:hasMediumPart	[rdf.type pmo:MediumPart ;
		pmo:hasDistinctPartCount "3" ;
		pmo:IndividualMediumOfPerformance data.muziekschatten.nl/som/um2531 ; # Sopraan @nl; Soprano @en
		pmo:MediumPartType "ensemblepartij / ensemble part"
		pmo:MediumPartType "versterkt / amplified"] ;
	pmo:hasMediumPart	[rdf.type pmo:MediumPart ;
		pmo:hasDistinctPartCount "2" ;
		pmo:IndividualMediumOfPerformance data.muziekschatten.nl/som/um2732 ; # Tenor @nl; Tenor @en] .
		pmo:MediumPartType "ensemblepartij / ensemble part"
		pmo:MediumPartType "versterkt / amplified"] ;
];
	pmo:hasMediumOfPerformance	[rdf.type pmo:EnsembleMediumOfPerformance
	rdf.type	data.muziekschatten.nl/som/um948 ; # Ensemble van toets en slagwerk @nl; Ensemble of keyboard instrument and percussion @en
	rdf.type	data.muziekschatten.nl/som/um1632 ; # Kwartet @nl; Quartet @en
	pmo:hasMediumPart	[rdf.type pmo:MediumPart ;
		pmo:hasDistinctPartCount "2" ;
		pmo:IndividualMediumOfPerformance data.muziekschatten.nl/som/um2959 ; # Vibrafoon @nl; Vibraphone @en
		pmo:MediumPartType "ensemblepartij / ensemble part" ;
		pmo:MediumPartType "versterkt / amplified"] ;
	pmo:hasMediumPart	[rdf.type pmo:MediumPart ;
		pmo:hasDistinctPartCount "2" ;
		pmo:IndividualMediumOfPerformance data.muziekschatten.nl/som/um848 ; # Elektrische piano @nl; Electronic piano @en
		pmo:IndividualMediumOfPerformance data.muziekschatten.nl/som/um854 ; # Elektronisch orgel @nl; Electronic organ @en
		pmo:MediumPartType "ensemblepartij / ensemble part"
		pmo:MediumPartType "alternatieve partij / alternative part"] ;
];
].

Any questions?

13-691
49819

Ar

question et réponse

Valse musette

Tierre Biersma (comp.)

SEXTET Cees Smal, Radio Nederland Wereldomroep

alto
alt.
pt.
piano
bas
slagw.

question et réponse

Tierre Biersma