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Nederlab - Laboratory for research on the patterns of change in the Dutch language and culture

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Appendix 1. List of researchers consulted with regard to the set-up of Nederlab

All consulted researchers have indicated their willingness to integrate Nederlab into their research and teaching.

University of Groningen (RUG)

prof.dr. K. van Berkel
dr. G. Bouma
dr. S. Corbellini
prof.dr. G.J. Dorleijn
prof.dr. J. Hoeksema
prof.dr.ir. J. Nerbonne
prof.dr. G.J.M. van Noord
prof.dr. B.A.M. Ramakers
prof.dr. L.R.B. Schomaker

Radboud University Nijmegen (RUN)

dr. S. Aalberse
prof.dr. R.A.M. Aerts
prof.dr. A.P.J. van den Bosch
prof.dr. P. Fikkert
dr. B.J.M. van Halteren
dr. H. van den Heuvel
dr. L.G.M.M. Hustinx
dr. L.E. Jensen
prof.dr. J.H.T. Joosten
prof.dr. A.M.C. van Kemenade
prof.dr. S.A. Levie
Y.F.M. Linders, MA
dr. B.L.J. Los
dr. N.H.J. Oostdijk
prof.dr. J.B. Oosterman
dr. M. Rem
dr.J.G.M.M. Rosendaal
dr. M.P.J. Sanders
dr. J.M. Sanders
prof.dr. P.J.M.C. Schellens
dr. N.H.H. Veldhorst
dr. C.C. De Wulf

Tilburg University (TU)

prof.dr E.J. Krahermer
dr. M.W.C. Reynaert
drs. T. Roselaar (IVN)
drs. S. Wubben

Technical University Delft (TUD)

prof.dr. A.P. de Vries (TU Delft/CWI)

University of Amsterdam (UvA)

prof.dr. J.A. Baggerman
dr. F.R.E. Blom
prof. dr. L.W.M. Bod
dr. Y. van Dijk

dr. J. Don
prof.dr. O.C.M. Fischer
dr.ir. J. Kamps
prof.dr. J.C. Kennedy
dr. W.T.J.M. Kuiper
prof.dr. J.T. Leerssen
dr. M. Marx
dr. H.C.B. Perridon
prof.dr. N.C.F. van Sas
prof.dr. T.L. Vaessens
prof.dr. W.R.E. Velema
dr. B.M.A. de Vries
prof.dr. F.P. Weerman
dr. H.H. Zeijlstra

University of Leiden (UL)

prof. dr. W. van Anrooij
dr. J. Audring
prof.dr. G.E. Booij
dr. C.L.J.M. Cremers
dr. M.B. Elenbaas
prof.dr. J.L. Goedegebuure
prof.dr. T. van Haaften
dr. A.J.E. Harmsen
dr. M.J. Janse
dr. C.H. Reintges
dr. G.J. Rutten
dr. A.J. van Santen
prof.dr. IM. Tiekens-Boon van Ostade
dr. M.A.C. de Vaan
prof.dr. H. te Velde
prof.dr. A. Verhagen
prof.dr. M.J. van der Wal
dr. G. Warnar
dr. T. van der Wouden

University of Twente (UT)

prof.dr. F.M.G. de Jong

University Utrecht (UU)

prof.dr. W.J. van den Akker
dr. G. Bloothoof
prof.dr. G. Buelens
prof.dr. N.F.M. Corver
dr. J. Evers-Vermeul
dr. G.J. Johannes
dr. J.M. van Koppen
drs. S. Krauwer
dr. J. de Kruif

prof.dr. W.W. Mijnhardt
prof. dr. A.B.M Naaijkens
prof.dr. J.E.J.M. Odijk
dr. J.L. Salman
dr. E. Stronks
prof. dr. S. Stuurman
prof.dr. W. Zonneveld

VU University Amsterdam

dr. L.M. Aroyo
drs. E. Akkerman
dr. E. Hagen
prof.dr A.A. den Hollander
prof.dr. I.B. Leemans
prof.dr. S. Legene
dr. P.H. Moser
dr. J. Noordegraaf
prof.dr. B.J. Peperkamp
prof.dr. W.P.M.S Spooren
prof.dr. G.J. Steen
prof.dr. P.T.J.M. Vossen

Research institutes

dr. M.C. Le Bailly (Huygens ING)
prof.dr. L.C.J. Barbiers (MI)
dr. J. Beeken (INL)
prof.dr. H.J. Bennis (MI)
dr. P. Boot (Huygens ING)
dr. M. Bouwhuis (SARA)
dr. H. Brand (FA)
prof.dr. H. Brinkman (Huygens ING)
ir. D. Broeder (MPI)
dr. A. Bruyn (INL)
prof.dr. J. Burgers (Huygens ING)
prof.dr. L.M.E.A. Cornips (MI)
dr. K.H. van Dalen-Oskam (Huygens ING)
lic. K. Depuydt (INL)
drs. S. Derks (Huygens ING)
dr. J. de Does (INL)
drs. G. Gerritsen (Huygens ING)
ing. R. Haentjes Dekker (Huygens ING)
dr. B.J.H. Hermans (MI)
dr. A.B.G.M van Kalmthout (Huygens ING)
ir. M. Kemps-Snijders (MI)
drs. T. Kenter (INL)
dr. E. Kloek (Huygens ING)
dr. J. Kruijzen (MI)
dr. F. Landsbergen (INL)
prof.dr. M. van Oostendorp (MI)
dr. H. Piersma (NIOD)
dr. G.J. Postma (MI)
prof.dr. P.Th. van Reenen (MI)
dr. H.W. Roodenburg (MI)

dr. T. Schoonheim (INL)
dr. N. van der Sijs (MI)
prof.dr. A.P. Versloot (FA)
dr. H. Wals (Huygens ING)
drs. J.J. van Zundert (Huygens ING)

Data providers

dr. H. Balk (IMPACT, KB)
dr. W. van Bergen (UBL)
drs. L. van den Bosch (Nederlandse Taalunie)
dr. C. Cucchiarini (Nederlandse Taalunie)
drs. P.M. Doorenbosch (KB)
dr. P.K. Doorn (DANS)
dr. I. Haslinger (KB)
C.A. Klapwijk (DBNL)
drs. M. de Niet (DEN)
drs. J. Oomen (VU/Beeld en Geluid)
drs. M. Slabbertje (UBU)
dr. R. van Stipriaan (DBNL)
dr. B. Zeeman (UBA)

Researchers abroad

prof.dr. J. van der Auwera (Antwerp Un.)
drs. J. Beelen (Oldenburg Un.)
prof.dr. L.J. Beheydt (Louvain Un.)
dr. R. de Bies (Anton de Kom Un. Suriname)
prof.dr. J. De Caluwe (Ghent Un.)
dr. E.L. Coussé (Ghent Un.)
prof. dr. W. Daelemans (Antwerp Un.)
prof.dr D. Geeraerts (Louvain Un.)
dr. C.R. Groeneboer (Pusat Kebudayaan Belanda (Erasmus Taalcentrum) Jakarta, Indonesia)
prof.dr. R. Grüttemeier (Oldenburg Un.)
prof.dr. J.M. van der Horst (Louvain Un.)
prof.dr. R.B. Howell (Wisconsin Un.)
prof.dr. M. Hüning (Berlin Un.)
lic. M. Kestemont (Antwerp Un.)
prof.dr. J. van Keymeulen (Ghent Un.)
prof.dr. E. Leijnse (Namur Un.)
prof.dr. A. Marynissen (Cologne Un.)
prof.dr. J. Nuyts (Antwerp Un.)
prof.dr. J. Pekelder (Paris-Sorbonne Un.)
prof.dr. D.J. Prinsloo (Pretoria Un.)
dr. I. Schuurman (Louvain Un.)
prof.dr. R. Severing (Netherlands Antilles Un.)
lic. V. de Tier (Ghent Un.)
prof.dr. J. Tollebeek (Louvain Un.)
dr. F. Van de Velde (Louvain Un.)
prof.dr. W. Vandenbussche (Brussels Un.)
lic. E. Vanhoutte (KANTL, Gent)
dr. R. Vismans (University of Sheffield, UK)
prof.dr. G. de Vogelaer (Münster Un.)
prof.dr. F. Willaert (Antwerp Un.)

Appendix 2. Survey of the data and metadata to be processed

Survey of the corpora to be processed

historical sources	Estimated size 01/01/ 2013 pp x million	Estimated size 31/12/ 2017 pp x million	Quality	Reprocessing?	Linguistic encoding	year I	year II	year III	year IV	year V
DBNL-XML	4	6	++	n	y	100%	100%	100%	100%	100%
DBNL-pdf's scans	7	10	--	n	n	100%	100%	100%	100%	100%
KB-newspapers	5	8	-	n	n	-	20%	100%	100%	100%
KB-EDBO	2	1,9	--	n	n	-	20%	60%	100%	100%
KB-ProQuest	2	10	--	n	n	-	20%	30%	50%	100%
KB-Google	10	30	--	n	n	-	20%	30%	50%	100%
KB-stat gen	2,5	2,5	+/-	n	n	-	100%	100%	100%	100%
KB-metam-tijdschr	1,5	1,5	--	n	n	-	100%	100%	100%	100%
KB-Linschotenver.	0,02	0,02	--	n	n	-	100%	100%	100%	100%
KB-ANP-nieuwsb	1,5	1,5	--	n	n	--	100%	100%	100%	100%
Behoud Ned Bp (KB, UBU/L/A)	1,5	3	--	n	n	-	20%	30%	50%	100%
UGent-Google	30	60	--	n	n	-	20%	30%	50%	100%
MI-CRM 14de eeuw	0	0	++	n	y	-	100%	100%	100%	100%
MI-GTRP/MAND/SAND	0	0	++	n	y	-	100%	100%	100%	100%
HI-ING (xml-projj)	0,05	0,10	++	n	y	100%	100%	100%	100%	100%
HI-ING (historici.nl)	0,2	0,4	-	n	n	100%	100%	100%	100%	100%
INL-27 milj wrdn	0,08	0,08	+/-	n	y	-	100%	100%	100%	100%
INL-5 milj wrdn	0,015	0,015	+/-	n	y	-	100%	100%	100%	100%
INL-38 milj woorden	0,1	0,1	+/-	n	y	-	-	100%	100%	100%
INL-corp Gysseling	0,01	0,01	+	y	y	50%	75%	100%	100%	100%
INL-corp oud-nederl	<0,01	<0,01	-	y	y	50%	75%	100%	100%	100%
INL-Parole	0,06	0,06	++	y	y	50%	100%	100%	100%	100%
NTU, Corp. gespr Ned.	0,03	0,03	0	n	y	-	-	100%	100%	100%
NTU, Corea	<0,01	<0,01	0	n	n	-	-	75%	100%	100%
NTU, Lassy Groot	7	7	0	n	y	-	25%	50%	75%	100%
NTU, Daeso	<0,01	<0,01	0	n	y	-	-	75%	100%	100%
NTU, DPC	0,03	0,03	0	n	y	-	-	100%	100%	100%
NTU, D-Coi	0,15	0,15	+	n	y	-	50%	100%	100%	100%
NTU, SoNar, JASMIN	0,7	1,4	+	n	y	-	25%	50%	75%	100%
RUN -hist taaldata 14de	<0,1	<0,1	+/-	y	y	-	25%	50%	75%	100%
RUN -hist taaldata 15de-17de	0,1	0,2	+/-	y	y	-	25%	50%	75%	100%
UTilb., D-Tuna	<0,01	<0,01	0	n	y	-	-	100%	100%	100%
TU Eindhoven, Corpus	<0,01	<0,01	0	n	y	-	-	100%	100%	100%
UAntw, SumNL	<0,01	<0,01	0	n	y	-	100%	100%	100%	100%
UvA-varia	<0,01	<0,01	0	y/n	0	-	25%	50%	75%	100%
VU-varia	<0,01	<0,01	+	0	0	-	25%	50%	75%	100%
UL-hist brieven	0,02	0,02	+/-	y	y	-	25%	50%	75%	100%
Nat. A. (UL/MI)Sailing Letters	0,1	0,2	+/-	y	y	-	25%	50%	75%	100%
RUG-varia	<0,01	<0,01	0	0	0	-	25%	50%	75%	100%
UU-varia	2,5	2,8	--	n	n	-	25%	50%	75%	100%
RUN- varia	<0,01	<0,01	0	0	0	-	25%	50%	75%	100%
Fryske Akad.: Fr Lang database	0	0	+	n	y	-	50%	100%	100%	100%
It Wumkes	0,2	0,3	--	n	y	-	100%	100%	100%	100%
Beeld&Geluid, transcripties	0	0	0	0	0	0	0	0	0	0
SMLC-Diplomatica Belgica (before 1250)	0	0	0	0	0	0	0	0	0	0
SMLC-Narrative Sources (before 1500)	0	0	0	0	0	0	0	0	0	0

legenda:

column 'quality': ++ (text accurate, encoded in XML/TEI), + (text accurate, encoded in xml), +/- (text accurate, structured but not available in xml), - (text generated with ocr, but with some structural encoding), - (text generated with ocr, with no structural encoding)
0 = to be assessed

survey of the metadata to be processed

databases/catalogues/bibliographies for historical sources	Estimated size 01/01/2013 in records	Estimated size 31/12/2017 in records	Quality of metadata	Reprocessing?	year I	year II	year III	year IV	year V
DBNL	100 000	200 000	++	n	100%	100%	100%	100%	100%
KB-newspapers	75 000	125 000	++	n	100%	100%	100%	100%	100%
KB-EDBO	10 000	10 000	++	y	50%	100%	100%	100%	100%
KB-ProQuest	10 000	50 000	++	y	-	40%	60%	80%	100%
KB-Google	160 000	160 000	++	y	-	40%	60%	80%	100%
KB-stat gen	0	0	+/-	y	-	30%	50%	80%	100%
KB-metam-tijdschr	4500	4500	+/-	n	-	100%	100%	100%	100%
KB-Linschotenver.	100	100	+/-	y	-	100%	100%	100%	100%
KB-ANP-nieuwsb	1 500 000	1 500 000	0	n	-	100%	100%	100%	100%
KB-Metam./Beh.Ned Bp	450 000	>450 000	++	y	-	40%	60%	80%	100%
KB-CBKinderboeken	26 000	30 000	++	y	-	40%	60%	80%	100%
UGent-Google	300 000	300 000	++	y	-	40%	60%	80%	100%
MI-CRM 14de eeuw	0	0	++	y	-	100%	100%	100%	100%
MI-gTRP/MAND/SAND	0	0	++	y	-	100%	100%	100%	100%
HI-ING (historici.nl)	1000	2000	++	y	-	100%	100%	100%	100%
INL-27 milj wrdn	0	0							
INL-5 milj wrdn	0	0							
INL-38 milj woorden	0	0							
INL-corp Gysseling	3000	3000	+/-	y	-	100%	100%	100%	100%
INL-corp oud-nederl	0	0							
INL-Parole	0	0							
NTU Corp. gespr Ned.	0	0							
Ned. Taalunie, Corea	0	0							
Ned. Taalunie, Lassy Gr.	0	0							
Ned. Taalunie, Daeso	0	0							
UTilb., D-Tuna	2400	2400	+/-	y	-	100%	100%	100%	100%
Ned. Taalunie, D-Coi	0	0							
Ned. Taalunie, SoNar	0	0							
RUN -hist taaldata 14de	0	0							
RUN -hist taaldata 15de-17de	0	0							
KULeuven et al, DPC	0	0							
TU Eindhoven, Corpus	0	0							
UAntw, SumNL	0	0							
UvA-varia	0	0							
VU-varia	0	0							
UL-hist brieven	0	0							
NA-Sailing Letters	10 000	38 000	+/-	y	-	100%	100%	100%	100%
RUG-varia	0	0							
UU-varia	17 000	17 000	++	n					
RUN- varia	0	0							
Fryske Akad.: Fr Lang database	0	0							
It Wumkes	1000	1500	+/-	y	-	100%	100%	100%	100%
Beeld en Geluid, metadata	0	0							
SMLC-Diplomatica Belgica (before 1250)	0	0							
SMLC-Narrative Sources (before 1500)	0	0							

legenda:

++ metadata present to supply metadata necessary for XML container, with sufficient bibliographical metadata to be able to connect digital text to the original printed work.

+/-: metadata present but insufficient to infer exact source of texts (holds for contributions to journals, for instance)

Appendix 3. Survey of infrastructure and tools programmes mentioned in this application, with short descriptions

CATCH and **CATCHPlus**: NWO programmes 'Continuous Access To Cultural Heritage'. In CATCH, computer scientists, the humanities and the cultural heritage sector develop generic methods and techniques (tools) cutting across the areas of the humanities and computer science, with the aim of facilitating interaction with cultural heritage institutions. (<http://www.catchplus.nl/en>)

CLARIAH: submission as part of the *Roadmap for large-scale research infrastructures* (through NWO) purposing to design an infrastructure for the totality of the e-humanities, also including sources such as AV, music, still frames images, etc. CLARIAH will build on CLARIN's achievements. DANS and CLARIN are the prime movers. (http://www.clarin.nl/system/files/CLARIAH_Brief_Aanvraag_Progress.pdf)

CLARIN-EU: CLARIN (Common Language Resources and Technology Infrastructure) was founded in order to design an integrated, interoperable Pan-European research infrastructure of language sources and the technologies that can be used for researching these sources. In 2011 the construction stage has begun of the *European Research Infrastructure Consortium (ERIC)*, headed in The Netherlands. ERIC is financed by the affiliated countries and the European Union. (<http://www.clarin.eu/external/>)

CLARIN-NL: ongoing project to realize the Common Language Resources and Technology Infrastructure in The Netherlands (i.e. corpora, datasets, tools, standardization, workspaces, lasting access, etc.). It is intended specifically for language and text-based research, but it also caters for spoken language. CLARIN's scope is wider than linguistics: it covers any research field in which language-technology tools and/or sources can be deployed for research purposes. The present stage of Clarin extends to 2014. It is financed by the Dutch Government through NWO. (<http://www.clarin.nl/>)

DANS: Institute set up by KNAW and NWO to provide Data Archiving and Networked Services; DANS promotes sustained access to digital research data. (<http://www.dans.knaw.nl/en>)

IMPACT: IMPACT (Improving Access to Text) is a project, started in 2008, funded by the European Commission and coordinated by the National Library of the Netherlands. The aim is to significantly improve access to historical texts by innovation in OCR technology and take away the barriers obstructing mass digitization of the cultural heritage of Europe. (<http://www.impact-project.eu/>)

NEDERLAB: current *NWO-large* application targeted to create a virtual diachronic digital corpus of Dutch-language data/texts in a laboratory environment, together with the tools for using this corpus. Nederlab focuses in particular on changes in language and culture in the course of time although it stands to reason that the corpus will be made available to other types of research as well. Nederlab is an application programme rather than an infrastructure programme, and will use the CLARIN standards. (http://www.diachronie.nl/index.php?option=com_content&view=article&id=45&Itemid=20)

SARA/BigGrid: SARA is the independent national supercomputing centre for scientific research and education in The Netherlands; it offers an integrated ICT research infrastructure and provides services for data storage, using the BigGrid Infrastructure. (<http://www.sara.nl/>; <http://www.biggrid.nl/>)

SURF: SURF is the collaborative organization for higher education institutions and research institutes; SURFnet enables researchers, teachers and students to collaborate using the latest technologies. SURF formulates standards for authorization and authentication, for example. (<http://www.surf.nl/>)

TLA: The Language Archive is a unit in the Max Planck Institute for Psycholinguistics (MPI) in Nijmegen. Its primary goal is to store and preserve digital language resources, to give access to researchers and other interested users and to develop and integrate new technologies advancing language research. (<http://www.mpi.nl/research/research-projects/the-language-archive>)