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Wh-relatives in the history of German (and what gender's got to do with it)

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Introduction

- In many Germanic languages, we can observe that diachronically, dpronouns are replaced by wh-forms in relative clauses:
- English: personal d-forms → who
- Dutch: $die \rightarrow wie$ 'who', $dat \rightarrow wat$ 'what' (ongoing processes)
- German: das → was 'what' (ongoing process)

This talk:

- das → was in (headed) relative clauses in the history of German (ongoing change, ≈1000 years)
- diachronic implications of the idea that the das/was alternation is governed by the presence/absence of valued gender features on D_{rel} (cf. Brandt & Fuß 2017 on present-day German)



1. Introduction

Structure of the talk:

- Section 2: theoretical analysis of the distribution of relative was in present-day German (building on Brandt & Fuß 2014, 2017)
- Section 3: overview of the development of (headed) wh-relatives in the history of German
- Section 4: discussion of how the present-day system came into existence (and what gender's got to do with it...)



- Headed relative clauses are introduced by a so-called d-pronoun that inflects for case (assigned in the relative clause) and agrees in gender and number with the head of the relative clause:
- (1) a. der Mann, der/dem

 the man that.MASC.NOM/that.MASC.DAT Peter helps

 'the man that helps Peter/Peter helps.'
 - b. die <u>Frau</u>, **die** Peter getroffen hat the woman that.FEM.ACC Peter met has
 - c. das <u>Auto</u>, **das** Peter fährt the car that.NEUT.ACC Peter drives
 - d. die <u>Männer/Frauen/Autos</u>, **die** Peter gesehen hat the men/women/cars that.PLPeter seen has



- das → was: With a certain set of neuter singular antecedents, the d-pronoun is replaced by the wh-pronoun was 'what' (cf. e.g. Duden 2016: §§1661-63):
- (2) a. indefinites/quantifiers: alles 'everything', vieles 'many things', etwas 'something'...
 - b. demonstratives: das 'that', dasjenige 'that thing'...
 - c. **nominalized adjectives**: das Gute 'the good (thing)', das Beste 'the best'...

was

- (3) a. Alles, was die Zuschauer dort sehen, ist Lug und Trug. everything what the spectators there see is lies and deception (NON13/JAN.07012 Niederösterreichische Nachrichten, 17.01.2013, NÖN Großformat, Ressort: Meinungen; PRO & KONTRA)
 - b. Das, was wir machen, ist das, was uns gefällt. that what we make is that what us pleases 'What we do is what we like.'
 - (BRZ07/JUN.06447 Braunschweiger Zeitung, 04.06.2007; " Das, was wir machen, ist das, was uns gefällt")
 - c. Das Beste, was Microsoft heute tun kann, ist, Yahoo zu kaufen. the best what Microsoft today do can is Yahoo to buy (HAZ08/NOV.01608 Hannoversche Allgemeine, 08.11.2008, S. 15; Microsoft lässt Yahoo abblitzen)



 If a lexical noun is added to elements such as alles 'all, everything' that trigger relativization by means of was, a d-relativizer must be used:

- (4) a. <u>alles</u>, **was/?*das** es gibt all what/that there is
 - b. <u>alles Gold</u>, **das/??was** es gibt all gold that/what there is



- <u>Conclusion</u>: The absence/presence of a lexical-nominal antecedent seems to be the most important factor governing pronoun choice in relative clauses (*das* vs. *was*)
- (5) Generalization: Relativization by means of das/was $N_{\text{Ineuter singular}} \rightarrow das$

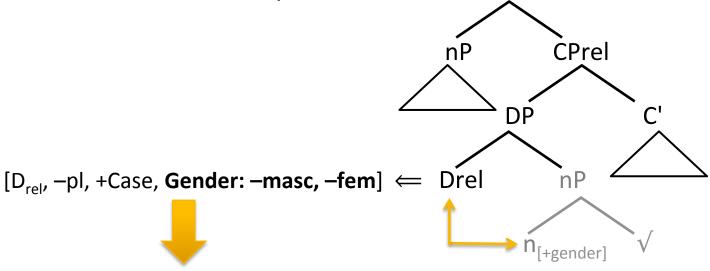
(see Behaghel 1928: 725f., Wiese 2013, Brandt & Fuß 2014, 2017)

- <u>Basic proposal (Brandt & Fuß 2014, 2017)</u>: was is an underspecified default relativizer that is used when the licensing requirements for d-pronouns are not met (see also Boef 2012 on Dutch wat).
- Core assumptions:
- Lexical gender is the defining characteristic of lexical nouns.
- ii. The more specified exponent das is inserted if the relative pronoun (D^0_{rel}) picks up a gender feature via agreement with a lexical nominal antecedent: $[D_{rel}, -obl, -pl, -masc, -fem] \leftrightarrow /das/$
- iii. Elsewhere, was is inserted: $[D_{rel}, -obl, -pl] \leftrightarrow /vas/$

Syntax: matching analysis of relative clauses

CP_{rel} merged with nP (hosting lexical (neuter) gender):

(6)
$$\left[_{DP} das \left[_{nP} \underline{Buch}, \left[_{CP} das du \ liest \right] \right] \right]$$
 the book that you read



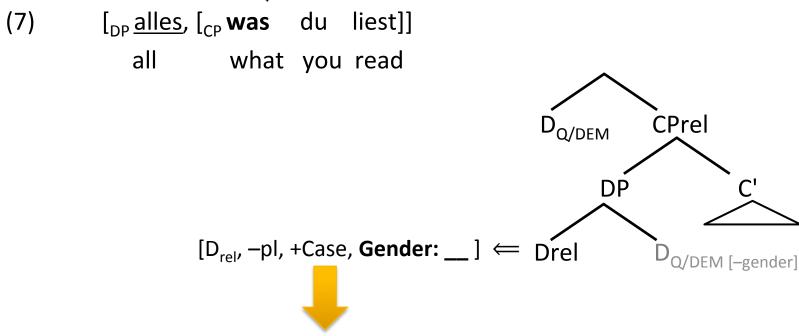
Insertion of *das*

AGREE

(due to the Elsewhere Condition, Kiparsky 1973)

Syntax: matching analysis of relative clauses

CP_{rel} merged with D_{Q/DEM} (lacking lexical gender):



Insertion of was



- <u>Benefit</u>: Unified treatment of different types of RCs that lack an appropriate (overt) nominal antecedent (see Fuß 2017 on deadjectival nouns).
- free relatives:
- [Was der Mann auch anpackt], funktioniert.
 what the man ever tackles works
 'Whatever the man tackles, works.'
 (HAZ09/AUG.02148 Hannoversche Allgemeine, 14.08.2009)



- relative clauses that modify IP or VP:
- (9) Wie bei allen anderen Mannschaftssportarten nahmen die Starken as with all other team sports took the strong Rücksicht auf die Schwächeren, [was den Spass für alle garantierte]. regards for the weak what the fun for all guaranteed (A09/OKT.06424 St. Galler Tagblatt, 23.10.2009, S. 52; Goldener Herbst im Simmental)
- relative clauses referring to quote-like expressions:
- (10) Von disciplina wird der Begriff discipulus hergeleitet, was soviel wie from disciplina is the notion discipulus derived what so much as Lehrling oder Schüler bedeutet.

 apprentice or pupil means
 (A09/FEB.05129 St. Galler Tagblatt, 18.02.2009, S. 36)

2.2 Analysis: was as a default relativizer – some further consequences

D_{rel} with unvalued [gender] at the interfaces – repair via insertion of default values: Interface to the morphological component: [Gender: ___] is interpreted as [neuter] i. Interface to the semantic component: [Gender:] is interpreted as [-animate/human] Personal forms such as wer 'who' cannot introduce headed relative clauses: (11)der Mann/jeder, [der/*wer teilnimmt], gewinnt. the man each person who participates wins Personal wh-forms spell out a semantic gender feature (interpreted as [+animate/human]); As a result, the use of a personal wh-pronoun leads to a feature clash in headed relatives: (12)*Antecedent_[+lexical/grammatical gender] [_{CPrel} personal wh-pronoun_[+semantic gender] ...] Occasionally, relevant examples do show up, however... (13)Jeder. wer sich in einer solchen Versorgungslage befindet [...] each person who REFL in a such suppy situation is (http://drk-annaberg.de/sonderseiten/aktuelles/newsdetails/archiv/2015/maerz/06/meldung/43-neues-

kursangebot-fuer-pflegepersonen-von-pflegebeduerftigen-adhs-betroffenen.html)



- Source: Old German Reference Corpus (c. 650,000 tokens).
- Both free and headed relatives are generally introduced by d-pronouns (3,959 cases in the Old German Reference Corpus):

(14) Free relatives:

- a. thaz si uns beran scolti [**ther** unsih giheilti] that she us bear should that.MASC.NOM us heals (Otfrid, Evangelienbuch, I 3, 38)
- b. tho liefun sar, so thu weist, then came runnning at once as you know [thie inan minnotun meist] that.PL him loved most

(Otfrid, Evangelienbuch, V 5, 3)

- Headed relatives (d-forms are also used in connection with elements that trigger relativization by means of was in present-day German):
- (15) a. dhazs fona dhemu almahtigin fater dhurah inan ist <u>al</u> uuordan, that from the.DAT.SG almighty father through him is all become [dhazs chiscaffanes ist] that created is 'that everything that was created came to be from the Almighty Father through him' (Isidor 99)
 - b. uuaz ist thaz [thaz her quidit] what is that that he says (Tatian 174.2)
 - c. thar ist inne manag gúat [thaz géistlicho uns io wóla duat] there is therein much good that spiritually us always good does 'It is much good therein that does us good spiritually.'

(Otfrid, Evangelienbuch, III 7, 30)



- wh-pronouns (used as indefinites) occur in generalizing so-wh-so constructions:
- (16) inti [so uuaz so ir bitit in minemo naman] thaz duon ih and so what so you.PL ask in my name that do I 'And whatever you ask in My name, that I will do' (Tatian 164,1)
- In addition, there is a small number of relative clauses that are introduced by 'pure' wh-pronouns...

Free relatives introduced by pure wh-pronouns:

- (17) [**Uuáz** álle únde uuáz îogelîche lîute állero dîeto . tágeliches what all and what everybody of-all nations every day îlen getûon]. dáz skînet ál ûzer démo spîegule hasten to do that appears all out-of that.DAT mirror 'What all people of all nations hasten to do each day can all be seen in that mirror.' (N_Mart_Cap.I.60-63)
- <u>Possible origin</u>: Reanalysis of indirect questions as free relatives (cf. e.g. Hogg & Denison 2006 on OE):
- (18) uuanda si ne-uuizzen [uuaz sî tuônt] ⇒... [free CPrel uuaz sî tuônt]
 since they NEG-know what they do
 (N Ps Glossen 18 56-59 (edition 75 95))
- Early free wh-relatives are confined to indefinite/generalizing readings.

- Headed relative clauses introduced by pure wh-forms (very few cases):
- (19) dhazs sie ni eigun <u>eouuihd</u> [huuazs sie dhar uuidar setzan]. that they not own anything, what.REL they there against set 'that they do not possess anything that they set against it' (Isidor IX.12, Eg. 719)
- (20) Sar so tház irscínit, [waz mih fon thír rinit]
 As soon as that appears what me from you touches
 'as soon as that appears that touches me from you'
 (Otfrid, Evangelienbuch II 8, 19)
- <u>Note</u>: Similarities between OHG and present-day German with regard to the contexts that allow wh-relatives (indefinites & d-pronouns).

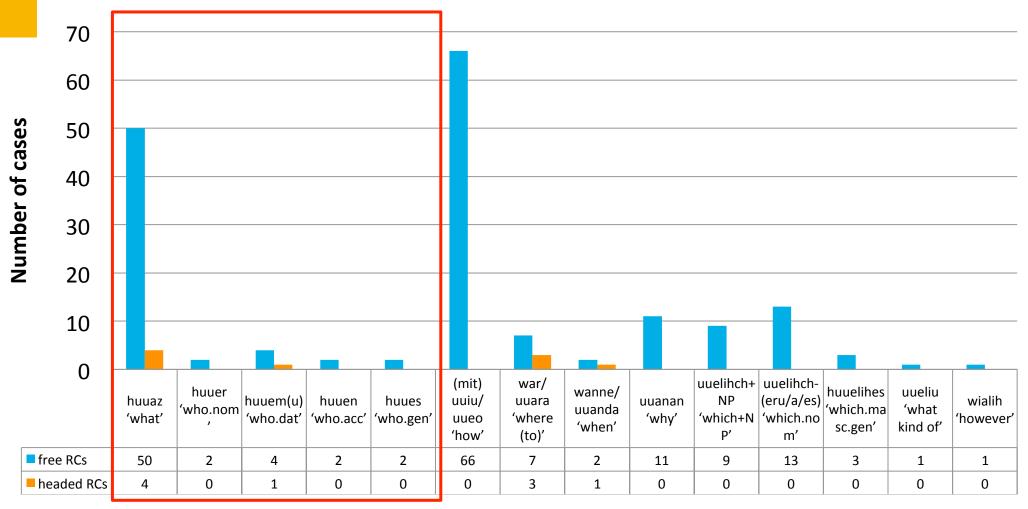


Figure 1: Relative clauses introduced by pure wh-pronouns in the Old German Reference Corpus (182 cases)



- The transition from free to headed wh-relatives: Reanalysis of appositive free relatives (cf. Paul 1920: 206f.; Behaghel 1928: 726; Truswell & Gisborne 2015, Gisborne & Truswell, to appear, on OE)).
- Extraposed wh-relatives are often structurally ambiguous:
 - appositive free relative that provides additional information linked to a nominal expression
 - headed (restrictive) relative that modifies a nominal expression
- This ambiguity might lead to syntactic reanalysis:
- (21) quaemet intigisehet [thia stat] [free SRel uuar trohtin gilegit uuas] come and see the place where Lord laid-to-grave was quaemet intigisehet [thia stat [headed Srel uuar trohtin gilegit uuas]]



3.1 Old High German: Summary

(22) $D_{rel} \rightarrow d$ -pronoun (plus occasional cases of free and headed wh-relatives)



- Source: Middle High German Reference Corpus (MiGraKo, c. 1,000 000 tokens)
- In the MHG period, d-relatives still dominate (cf. e.g. Paul ²⁵2007: 370).
- However, free relatives (FRs) introduced by contracted forms such as *swaz*, *swer*, *swen*, *swes*, *swanne*, *swâr* (< *so*+wh+*so*) have become a frequent pattern (2,066 hits for nominal wh-forms, and 1,461 hits for adverbial whforms).
- In the course of the MHG period, the wh-pronouns extended by /s-/ are eventually replaced by simple wh-forms (cf. e.g. Paul ²⁵2007: 224).



- Free relatives with swer/swaz:
- (23) a. [swer an rehte güete wendet sin gemüete], whoever at right goodness turns his mind dem volget sælde und êre that.MASC.DAT follows blessing and honor (Iwein 1-3; Paul ²⁵2007: 371)
 - b. Bit unnuzen worten di man dut firlusit man with useless words that.PL one does loses one [swaz man gudes dut] whatever one good does 'With useless words, one forfeits whatever good things one does.'

(Idsteiner Sprüche der Väter, 13 1-wmd-PV-X > M114-N1 (tok dipl 128-139))

- Formal differentiation of generalizing/indefinite FRs (introduced by sw-forms) and individualizing/definite FRs (introduced by d-pronouns; Paul 1920: 199ff.):
- (24) [Swen genüeget [des er hât]], der ist rîche, whoever.ACC suffices that.GEN he has that.NOM is rich [swiez ergât].

however-it fares

'He, who is content with what he has, is rich, however things will turn out.'

(Freidanks Bescheidenheit, 43,10)

- Headed relatives: sw-forms primarily occur in connection with an indefinite/ generalizing antecedent:
- (25) durch den dir <u>al</u> gitan ist [**swaz** giscaffines ist] through that.MASC.ACC you.SG.DAT all done is what created is (Bamberger Glaube u. Beichte, 12th c., M089-G1 (tok_dipl 265 275))
- In the same context, the 'pure' form was is also attested:
- (26) a. síe hetten gnuc <u>des alles</u> [waz díe erde truc] they had enough of-everything what the earth bears

 (Heinrich von Freiberg: Tristan (F); 14_1-omd-V-G > M311-G1 (tok_dipl 6184-6211)
 - b. vnd saite im <u>alliz</u> [was im got bewiset hatte] and told him everything what him God shown had (Jenaer Martyrologium Path: 13_2-omd-PV-G > M408-G1 (tok_dipl 15117 15138)

neuter indefinites/demonstratives: das-relatives are the majority pattern:

	daz	swaz	waz
allez	165	5	7
d-Pronomen	85	5	9

Table 1: Relativization strategies with neuter antecedents in MHG (MiGraKo)

- <u>daz, (s)waz</u>: potentially ambiguous between a restrictive reading and a postposed appositive FR (cf. e.g. Paul 1920: 206f.):
- (27) doch wil ich gerne lîden **daz, [swaz** mir dâ von geschehen sol] yet want I gladly suffer that whatever to-me of it happen shall (Hartmann von Aue, *Klagebüchlein*, 568f.)
- daz, waz: Often ambiguous between a relative clause and an indirect question (5/9):
- (28) Ir [chult daz wizzin [waz daz bezeichni] you should that know what that means (12_2-bairalem-PV-G > M214-G1 (tokens 8816 8838))



- Personal wh-forms are very rare in headed relatives:
- (29) <u>Ein iegelîcher</u> [**swer** zuo mir kuomt unde horit mine rede] everybody *s*-who.MASC to me comes and hears my speech (Evangelienbuch des Matthias von Beheim, 14_1-omd-PU-G > M318-G1 (tok_dipl 10429-10455)



3.2 Middle High German: Summary

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(30) a. D_{[FR, -def]} \rightarrow (s-)wh-pronoun
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b. elsewhere \rightarrow d-pronoun

(+sporadic instances of headed wh-relatives)



3.3 Early New High German

- Sources: Bonn ENHG Corpus (around 600,000 tokens) and the Parsed Corpus of ENHG created by Caitlin Light (around 100,000 words from Luther's Septembertestament, 1522)
- Focus: relative clauses in connection with alles 'everything' and das 'that'

3.3 Early New High German

- Alles/early ENHG (14th early 15th cent.): strong preference for d-relatives:
- (31) <u>alles</u>, [daz uns geschehe]
 all that us happens
 'everything that happens to us'
 (East Franconian, late 14th c., Mönch von Heilsbronn, Namen, 17,B2)
- <u>Alles/mid-late ENHG</u>: das is replaced by was:
- (32) Denn durch solchen glauben vergibt Gott <u>alles</u> [was vnserm since through such faith forgives God all what our gehorsam noch mangelt].

 obedience still lacks
 'Since through such belief God forgives everything that our obedience still lacks.' (East Franconian, 1578, Veit Dietrich, Summaria, 30,3)



3.3 Early New High German

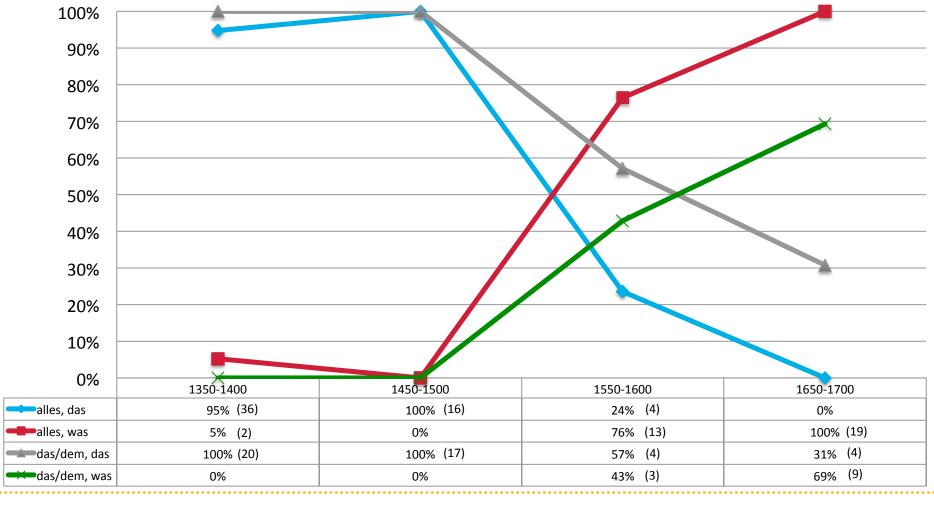


Figure 2: Headed das/was-relatives in ENHG (after alles 'everything' and das/dem 'that')



- Additional data taken from Luther's Septembertestament (1522) sheds further light on the transition from das to was (extraction of all 379 cases labeled as CP-REL(+CP-REL-SPE) and all free relatives (CP-FRL, 114 cases)).
- Observation: The distribution of das and was in both free and headed relatives seems to be governed by semantic properties –
 - the use of das is linked to individuating/definite readings (nouns, d-pronouns/ demonstratives and individuating/specific free relatives)
 - the use of was is linked to generalizing/indefinite readings meanings (indefinites ('everything', 'nothing') and free-choice free relatives)

Headed relatives:

- after the indefinites alles 'everything' and nichts 'nothing', only was is found.
- after d-forms (in particular dem 'that.sg.masc.dat'), only das occurs.
- (33) a. Als nu Jhesus wuste, <u>alles</u> **was** yhm begegen sollt, gieng er hynaus [...] when now Jesus knew all that him come-upon should went he out 'Jesus therefore, knowing all things that should come upon him, went forth [...]' (Septembertestament-John, 1483)
 - b. denn sie preyseten alle Gott, vbir <u>dem</u> **das** geschehen war, [...] for they glorified all God about that that happened was 'for all men glorified God for that which was done' (Septembertestament-Acts, 204)



	d-pronoun	P+d-pronoun	wh-pronoun (was)	'which'	P+'which'	else (adv., da 'there')
$N_{masc.sg}$	124	5	_	23	2	10
$N_{fem.sg}$	30	-	_	6	5	5
N _{neut.sg}	27	-	_	7	1	11
N _{pl}	136	-	-	5	4	1
Indefinite _{neut.sg} (alles/nichts)	_	_	6	-	_	_
d-pronoun _{neut.sg} (<i>dem</i> _{masc.sg.dat})	5	-	-	_	-	_
dies 'this'	1	_	_	-	_	-
es 'it'	1	_	_	_	_	_
quote/ . translation	_	-	-	1	-	_

Table 4: Antecedents and relativizers in the Parsed Corpus of ENHG (Septembertestament, 1522)

- Free relatives:
 - d-pronouns introduce individuating/definite free relatives
 - wh-pronouns are linked to generalizing/free-choice readings (with some amount of ambiguity)
- (34) a. vnnd da es horten [die vmb yhn waren], giengen sie hynaus [...] and when it heard that.pl around him were went they out 'And when his friends heard of it, they went out [...]'

 (Septembertestament-Mark,.198)
 - b. darumb verhies er yhr mit eynem eyde, er wollt yhr geben, [was sie foddern wurde] therefore promised he her with an oath he wanted her give what she demand would 'Whereupon he promised with an oath to give her whatsoever she would ask.'

 (Septembertestament-Matthew, 966)



3.3 Early New High German: Luther

	individuating/ definite	generalizing/ indefinite	ambiguous: ±def.	ambiguous: interrog./FR
d-FR	56		1	
wh-FR		7	6	13
which-FR	3	1	2	3
else (adv.: wo/da, etc.)	26			

Table 5: Free relatives in Luther's Septembertestament (1522)

3.3 Early New High German: Luther

Free wh-relatives/ambiguous cases:

(35) a. <u>definite vs. indefinite</u>

sondern er war eyn dieb, vnd hatte den beuttell, vnd trug [was geben wart] [...] but he was a thief and had the bag and carried what given was 'but he was a thief, and had the money box; and he used to take what was put in it' (Septembertestament-John, 1079)

b. FR vs. indirect question

denn er wuste wol, [was er thun wollte]. for he knew well what he do wanted 'for he himself knew what he would do' (Septembertestament-John, 432)

3.3 Early New High German

- Headed relatives introduced by personal wh-forms continue to be very rare (Ebert et al. 1993: 449). In the vast majority of cases, a d-relative is used to refer back to a masculine human/animate antecedent, cf. (37):
- (36) denn ich will <u>niemand</u> on hulffe lassen/ [wer mir trawet]. since I want nobody without help let who me trusts (Text 135: Veit Dietrich, Summaria, Nuremberg (East Franconian) 1578, 23,20)
- (37) Es ... aber <u>niemand</u> war, [**der** sie hätte auffnehmen wollen] it however nobody was who them had.SUBJ accomodate wanted 'However, there was nobody who would accomodate them.'

(Hans Michael Moscherosch: "Gesichte, Straßburg 1650" (Alsatian), 23, 27)

3.3 Early New High German: Summary

- Transition from das to was, giving rise to the present-day distribution
- <u>Early ENHG</u>: Very similar to MHG (but: absence of extended swer/swazforms)
- <u>Intermediate system (Luther)</u>: Distribution of *das* and *was* linked to semantic properties (both free and headed relatives):
 - \bullet D_{FR/rel [-def]} \rightarrow was
 - \Leftrightarrow elsewhere: $D_{rel} \rightarrow das$ (i.e., CP_{rel} merged with N/nP, $D_{[+def]}$, VP/IP)
- Late ENHG:
 - \wedge N_[neuter singular] \rightarrow das
 - \Leftrightarrow elsewhere \Rightarrow was
- Semantic triggers are reanalyzed as morphosyntactic triggers (⇒ markedness reversal).



- OHG and MHG exhibit only sporadic examples of headed whrelatives; the 'real' change takes place in mid/late ENHG.
- Question: Can we link the changing relativization patterns to independent changes that affected the nominal domain in ENHG?



- ENHG: Major changes affecting the morphosyntax of nouns and noun phrases (cf. e.g. Ebert et al. 1993, Demske 2001):
 - ❖ a collapse of inflection classes
 - the fixation of word order in the DP
 - the development of new determiners from former adjectives/pronouns
 - diminishing role of (in-)definiteness as a factor governing the choice of inflections/word forms within DP

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❖ change from d- vs. wh-pronouns in (headed) relative clauses



A potential scenario:

- OHG/MHG: As a result of the reanalysis of indirect questions and appositive free relatives was turned into a potential alternative to das.
- <u>Intermediate stage (Early/Mid ENHG)</u>: distribution governed by semantic factors (definiteness)
- Mid/Late ENHG: Reanalysis in which the distribution of das/was was attributed to morphosyntactic factors (lexical gender on n/N).



Factors that blurred the original division of labor between das and was I

- <u>FRs</u>: wh-forms began to take over functions originally linked to d-pronouns (not any longer confined to free choice/indifference readings, potential use with a definite interpretation)
- Potential ambiguity of postposed indirect questions and FRs.
- Headed relatives: occasional dissimilation of das, das → das, was (Behaghel 1928: 727; Neeleman & van de Koot 2006 on dat, wat in Dutch)
- Relatives modifying VP/IP: das is replaced by welches 'which' in mid/late ENHG (Behaghel 1928: 724f.).



Factors that blurred the original division of labor between das and was II

- <u>Independent change</u>: Reanalysis of the factors that govern the distribution of weak and strong adjectival inflections (Paul 1920, Behaghel 1928, Ebert et al. 1993, Demske 2001):
- (38) semantic (definite: weak, else: strong) → morphosyntactic (inflected D: weak, else: strong)
- (39) die gegenwürtichait **aller** pozz-**er** geist [D_[-def]: strong] the presence all.GEN.PL evil-GEN.PL.ST ghosts (Middle Bavarian, 1384: Wilhelm Durandus: Rationale Wien, 32,30)
- (40) die fünffte Essents **aller** Mechanisch-**en** Künsten [D_[+Agr]: weak] the fifth essence all.GEN.PL mechanical-GEN.PL.WK arts (Swabian, 1660, Christoph Schorer, Chronik Memmingen, Ulm, 20,28)
- This change is linked to the rise of an articulated system of determiners (reanalysis
 of adjectives and pronouns) that mark (in-)definiteness, cf. Demske (2001).
- Crucially, it reduced the evidence for [±def] as a feature governing the choice of inflections/word forms in the DP.



Another way to make sense of the das/was alternation – gender to the rescue...

• <u>Proposal</u>: When learners could not any longer clearly recognize the original semantic motiviation behind the das/was alternation, they attributed it to a **morphosyntactic** property, namely the absence/presence of lexical gender (on D_{rel}).

(41)

<u>before the reanalysis</u>: **das** by default (elsewhere case; **was**: D_[rel. -def]) ... CPrel

DP C'

nP

n_[+gender]

AGREE

after the reanalysis: insertion of *das*, which requires gender on D_{rel} (elsewhere: *was*)



Consequences of the reanalysis:

- Loss of d-FRs (still marginally possible in present-day German, but presumably with a different structure, cf. Fuß & Grewendorf 2014)
- Result of markedness reversal: Extension of was to other contexts where no lexical gender feature is available:
 - nominalized adjectives, a later ENHG development (Ebert et al. 1993) and still not categorical in present-day German (with the exception of superlatives; cf. Fuß 2017 for details);
 - relative clauses that modify IP/VP (with was replacing d-forms and which). According to Behaghel (1928: 724f.), this change begins to show up in the written records in the 2nd half of the 18th century (prior to the ENHG period, only d-forms were possible in this context, cf. Paul ²⁵2007: 411; see also Senyuk 2014 for a recent study).



Factors that block the use of wer 'who' in headed relatives

 The presence of semantic gender D_{rel} leads to a feature mismatch between antecedent and relative pronoun in headed relatives:

*Antecedent_[+lexical/grammatical gender] [_{CPrel} personal wh-pronoun_[+semantic gender] ...]

 In other words, the transition from personal (interrogative) wh-pronouns to relative pronouns is inhibited by the fact that in German, relative pronouns signal grammatical gender while interrogatives signal semantic gender (i.e., the distinction [±human/animate])

5. Concluding Summary

Distribution of *das/was* in present-day German:

- The alternation between the relativizers das and was reflects categorial properties of the antecedent of the relative clause (Brandt & Fuß 2014, 2017):
 - das is inserted in the presence of a lexical head noun (characterized by specified gender features on n)
 - * was is the underspecified elsewhere case

<u>Development of (headed) wh-relatives in the history of German:</u>

- Headed relatives: only sporadic instances of wh-forms in OHG and MHG (< reanalysis of indirect questions and appositive FRs)
- In the 16th century, das is rapidly replaced by was, eventually leading to the distribution still found in present-day (standard) German.



5. Concluding Summary

- <u>Proposal</u>: The transition from *das* to *was* involved a reanalysis in which an originally semantically motivated distribution ($D_{rel [\pm def]}$) was attributed to morphosyntactic properties (gender on D_{rel}).
- Personal wh-pronouns could not turn into relative pronouns (in headed RCs), since they carry a (+interpretable) gender feature, which gives rise to a feature mismatch in the contexts where headed wh-relatives are licensed in German.

The End.





Appendix: Personal wh-relatives in English and Dutch

English

- Early instances of wh-relatives are confined to adverbials and oblique argument positions (cf. Hogg & Denison 2006); in contrast to German, what-relatives are rare in OE and ME, and are confined to free relatives in the present-day language (but see Johnsen 1913 on headed what-relatives in OE).
- <u>The role of gender</u>: Due to the general loss of grammatical gender, the extension of personal wh-forms to headed relatives could not any longer be hindered by the presence of interpretable gender features on wh-forms.

Appendix: Personal wh-relatives in English and Dutch

Dutch

- Dutch is in between English and German:
- reduced inventory of forms (basically die/dat, wie/wat + pronominal PPs of the type waar+P)
- die/dat signal the distinction between common and neuter gender; wie/wat signal the distinction [±human].
- wh-forms have a wider distribution (cf. van der Wal 2002, Boef 2012, Breokhuis & Keizer 2012).
- Headed relatives that modify a [+human] antecedent may be introduced by personal whpronouns (wh-PPs or indirect objects of the relative clause).
- (i) de <u>student</u> [aan wie ik gisteren een boek heb gegeven]
 the student to whom I yesterday a book have given
 'the student to whom I have given a book yesterday'
- (ii) de <u>student</u> [wie/die ik gisteren een boek heb gegeven]
 the student who/who I yesterday a book have given
 'the student whom I have given a book yesterday' (Broekhuis & Keizer 2012: 405f.)



Appendix: Personal wh-relatives in English and Dutch

Dutch

- In colloquial varieties, personal wh-forms have been gaining a wider distribution (cf. van der Wal 2002, Boef 2012).
- <u>The role of gender</u>: The change affecting relative pronouns is possibly linked to a more general change affecting the gender system of Dutch, in which semantic factors are becoming more important in gender agreement (cf. e.g. Audring 2009, Klom & de Vogelaer 2017).

"Whereas in Standard Dutch the relative pronoun is required to spell out syntactic gender, in colloquial Dutch this grammatical distinction is less important and the relative pronoun may spell out semantic animacy instead. For example, in the case of a common gender human RC head like man 'man', Standard Dutch requires the d-pronoun die (that spells out the [common] feature), whereas colloquial Dutch allows the w-pronoun wie (that spells out the [human] feature) as well." (Boef 2012: 181)

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