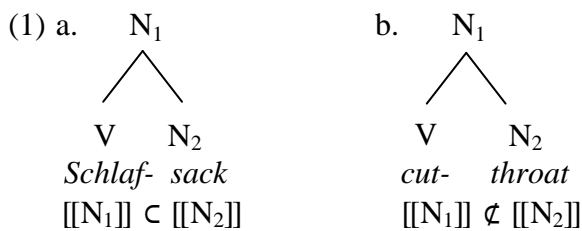

Verb-noun compounds in English and other European languages

1 Introduction: Verb-noun compounds

- Compounds made up of a verb and a noun:
 1. *Schlafsack, Schleifstein, Sehstärke, Zahntag, Parkverbot*
 2. *whetstone, drawbridge, blowlamp, drift ice, scatterbrain, cutthroat*
- Major types: exocentric, endocentric



1.1 Endocentric VN-compounds

- Very common and fully productive in German, very rare (and unproductive) in English (as well as most Romance languages)
- (2) a. *Schlafsack, Schlafzimmer, Umrührkakao, Mitklatschtempel, etc.*
b. *Kaufkraft, Laufzeit, Messwert, Nährwert, Nennwert, Schlagkraft, etc.*
c. *Baustil, Denkweise, Machart, Dichtkunst, Esskultur, Kochkunst, etc.*
d. *Nährmittel, Reizmittel, Schlafmittel, Treibmittel, Waschmittel, etc.*
e. *Parkverbot, Fressgier, Habgier, Raffgier, Schaulust*
- A comparison of English and German: Endocentric compounds are very common in German, while they are heavily restricted in English.
 - In English, endocentric compounds are basically restricted to
 - (i) **concrete referents** (*grindstone, stopwatch, washcloth, etc.*);
 - (ii) **locations** (*bakeshop, driveway, paystation, washhouse*);
 - (iii) **time spans** (*washday, leapyear, rush hour, workday, etc.*).
 - More or less idiosyncratic restrictions in English: Specific verbs are not used at all in VN-compounds (only V-ing N):
- (3) *boil, climb, dress, drink, eat, fight, fish, hear, hunt, look, read, ride, sew, sleep, spin, start, train, walk, write*
- A small set of verbs only occurs in VN-compounds (but not in V-ing N-compounds): *drift, drip, pay, rattle, show, slip*
 - Verbs that occur in both types of compounds: *draw* (*drawbridge, drawing room*), *swim* (*swimsuit, swimming style*), *wash* (*washcloth, washing machine*)
 - English: competition between V-ing N-compounds (\equiv NN-compounds) and VN-compounds, with the former type gaining ground.
 - Endocentric VN-compounds seem to have existed in Old English and Old High German (OE *bernāsen*, OHG *brennīsarn* ‘burning iron’); they may have emerged by reanalysis of NN-compounds (e.g. MHG *slâfhûs*).
 - On a European level, endocentric VN-compounds seem to be widespread only among Germanic languages (other than English); they are practically unattested in Romance and Slavonic languages.

1.2 Exocentric VN-compounds

- Two major types of exocentric VN-compounds

(4) a. *cut-throat*: ‘an *x* that [VP_[PRED cuts] [COMP throats]]]’
 b. *scatter-brain*: ‘an *x* that has [NP a [MOD scattered] [HEAD brain/mind]]]’

- *cutthroat*: **Agentive VN-compounds**
- *scatterbrain*: **Possessive VN-compounds**
- an intermediate type: *wagtail* ⇒ **Meronymical VN-compounds**

(5) a. ‘an *x* that [VP_[PRED wags] [COMP (*x*'s) tail]]]’
 b. ‘an *x* that has [NP a [MOD wagging] [HEAD tail]]]’

- Exocentric VN-compounds have some interesting features
- Long history; inheritance, borrowing, calquing.

(6) ‘wag-tail’

- a. Gr. *seiso-pugís* ‘wag-tail’
- b. Lat. *mota-cilla* (< *mota-cul-a* ‘move_{INT}-tail-INFL’)
- c. Fr. †*branle-queue* (‘wag-tail’)
- d. Dan. *Vip-stjert*, Germ. *Wipp-sterz* (‘teeter-rump’)
- d. Slw. *traso-chvost* (‘wag-tail’)
- etc.



- Calquing even within the Romance family

(7) ‘break-bones’

- a. Lat. *ossi-fraga*
- b. Sic. *crepa-l-ossu*
- c. Cat. *trenca-l-òs*
- d. Sp. *quebranta-huesos*
- e. Astur. *frang-üeso*
- etc.



- Irregular morphological make-up?

(8) Spanish

- a. *un* [N *cubre-cama*_{FEM.SG}]_{MASC.SG}
 a cover-bed
 ‘a bedspread’
- b. *un* [N *espanta-pajaros*_{MASC.PL}]_{MASC.SG}
 a scare-birds
 ‘a scarecrow’

- Negative connotation in many languages

(9) Spanish

- a. *mata-sanos* ‘kill-healthy (doctor)’
- b. *saca-dolares* ‘take.out-dollars’
- c. ?*regala-dinero* ‘give.away-money’

(10) English

- a. *cut-throat*
- b. *pick-purse*
- c. **give-money*

- Matters of language change (competition).

(11) a. *break-bones*
 b. *bone-break-er*

- Basically restricted to VO-languages; analogy between syntax and morphology?

(12) Spanish

- a. *Esta máquina lava trastes.*
 this machine washes dishes
 ‘This machine washes dishes.’
- b. *Es un lava-trastes.*
 is a wash-dishes
 ‘It is a dishwasher.’

2 Exocentric VN-compounds in contemporary European languages

- Romance languages

(13) a. Fr. *casse-cou* ‘break-neck (daredevil)’, *casse-tête* ‘break-head’
 b. It. *spazza-camino* (chimney sweeper), *spaventa-passeri* ‘scare-sparrows’, *guarda-boschi* ‘guard-forests’
 c. Sp. *mata-sanos* ‘kill-healthy’, *asalta-bancos* ‘bank robber’, *lava-dinero* ‘money launderer’

- Celtic: not widespread; have apparently been borrowed from French into Breton (cf. Pilch 1996)

(14) a. *torr-penn* ‘break-heart, difficult problem’
 b. *rann-galon* ‘split-heart, affliction’

- Germanic languages: very rare, widespread only in English

(15) a. Engl. *cutthroat*, *cutpurse*, *pickpocket*, *daredevil*, etc.
 b. Germ. *Stör-en-fried* ‘disturb-the-piece’, *Habe-nichts* ‘have-nothing’

- The pattern was more productive in MHG vernacular speech (cf. Fabian 1931):

(16) a. *lær-en-biutel* ‘empty-the-bag (robber)’
 b. *füll-en-sac* ‘fill the bag (robber)’

- Slavonic languages: rather common

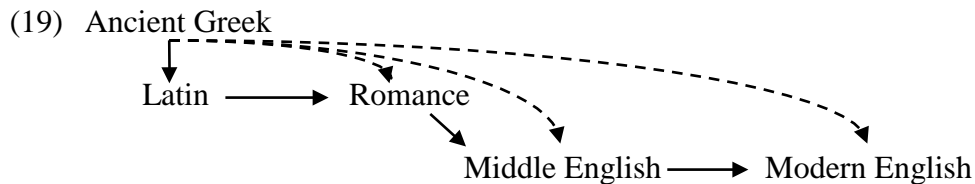
(17) a. OCS *vari-męso* ‘cook-meat’
 b. *Vladi-slav* ‘rule-Slave’
 c. *Vladi-mir* ‘rule-world’

(18) Bosnian-Croatian-Serbian
 a. *vadi-čep* ‘take.out-cork’
 b. *deri-koža* ‘rip-skin’
 c. *seci-kesa* ‘cut-purse’

3 The historical development of VN-compounds in European languages

3.1 Morphological patterns in Ancient Greek

- VN-compounds appear to have an interesting history ('borrowing chain')



- First occurrences in Ancient Greek (cf. Osthof 1878): three major types

- (20) a. V-*e*-N-INFL: *arch-é-kak-os* 'begin-LNK-bad-INFL (direful)'
 b. V-*si*-N-INFL: *helke-sí-pepl-os* 'drag-LNK-robe-INFL (robe-dragging)'
 c. V-N-INFL: *phag-ánthrōp-os* 'eat_{AOR}-man-INFL (cannibal)'

- a: *-e* could be a stem formative or an imperative marker (cf. the Romance languages)
- b: *-si* could be an aorist suffix with a weakened vowel (< *-sa*) or a nominalizing suffix *-si* (cf. (21))
- c: is either a combination of a bare verb with a noun, or it has resulted from elision of a linking element (e.g. *phag(-e)-ánthrōp-os* 'eat_{AOR}-man-INFL')

- (21) a. *sta-si-s* 'stand-NAC-INFL'
 b. *ana-ly-si-s* 'up-solve-NAC-INFL'
 c. *ba-si-s* 'go-NAC-INFL'

- other (minor) patterns:

- (22) a. *hamart-o-ep-ēs* 'miss_{AOR}-LNK-word-INFL (speaking inappropriately)'
 b. *sei-so-pug-ís* 'move-LNK-tail-INFL (wagtail)'
 c. *eru-s-harmat-ēs* 'pull-LNK-cart-INFL'

3.2 The origin of Agentive VN-compounds in Ancient Greek

- Reanalysis of (possessive) AN-compounds?

- (23) [_A *ortho*_A-*krair*_N]-*os* 'straight-extremity-INFL (having straight horns)'

- (24) [_A *ortho*_V-*krair*_N]-*os* '[stretch-extremity]-INFL'

- a. cattle with straight horns (Possessive VN-compound)
 b. cattle stretching its horns (Meronymical/Agentive VN-compound)

- (25) Possessive AN-cp. Possessive VN-cp. Meronymical/Agentive VN-cp.
 [_A A_{MOD} N_{HEAD}] > [_A V_{MOD/PTCPL} N_{HEAD}] > [_A V_{PRED} N_{COMP}]

- different developments in the case of 'sigmatic' compounds (cf. (20)b.):

- (26) NN-compound Agentive VN-compound
 [_{A/N} [_N *helke*_V-*si*_{DER}]-*pepl*_N]-*os* > [_{A/N} [_V *helke*_{R1}-*si*_{Th}]-*pepl*_N]-*os*

3.3 A competing pattern: NV-compounds

- (27) Ancient Greek
 a. *ánthrōp-o-phág-os* 'man-LN-eat-INFL (cannibal)'
 b. *phōs-phór-os* 'light-bring-INFL'
 c. *eirēn-o-poí-os* 'peace-LN-make-INFL'

- NV-compounds were also common in Latin ...

(28) Latin

- agr-i-col-a* ‘field-LN-cultivate-INFL’ (‘farmer’)
- arm-i-ger* ‘weapon-LN-carry’ (‘warrior’)
- part-i-cep-s* ‘part-LN-take-INFL’ (‘participant’)

- ... and in Early Germanic

(29) Old English (Kastovsky 1985: 248–9)

- ǣw-brec-a* ‘law-break-INFL’
- mere-far-a* ‘sea-travel-INFL’ (‘sailor’)
- loc-bor-e* ‘curl-bear-INFL’ (‘person with long hair’)

- Kastovsky (1985: 246–7) on the final vowel in such compounds:

“Historically, the following Old English patterns arose from the addition of nominal stem formatives to (verbal) roots [e.g. *-a* to *brec*, VG]. These formatives probably had some derivative-semantic function just like the consonantal suffixes, **but primarily they determined the inflectional class of the lexical item in question** [my emphasis, VG]. ... This is why in Old English works like NSg *gum-a*, GSg *gum-an* ‘man’ as well as in derivatives like *wig-a*, *bor-a*, etc., *-a*, *-an* have to be regarded as inflectional (case/number) suffixes and not as derivational suffixes; the derivational element in these cases is not represented overtly, i.e., it is zero.”

- Some Middle English examples (Sauer 1992: 202ff.)

(30) a. *childre-bere* ‘child-carry’ (‘pregnant woman’)

- eu-bruche* ‘matrimony-break’ (‘adulterer’)
- here-toga* ‘army-draw’ (‘duke’, cf. Germ. *Herzog*)

- Remnants of this pattern in Modern English (often with negative meanings or connotations):

(31) *chimney sweep*, *barkeep*, *bellhop*, *cardsharp*

4 The spread of Agentive VN-compounds from Ancient Greek to other European languages

- Agentive VN-compounds are not generally assumed to have existed in Classical Latin, but there seem to be some attested examples, many of which are probably calques from Greek (cf. Bork 1990).
- Most of the examples found are adjectives:

(32) Adjectives

- flex-animus* ‘bend-mind (persuasive)’
- versi-color* ‘change-color’
- vinci-pes* ‘fasten-foot’

(33) Nouns

- motacilla* < **mota-cul-a* ‘move_{INT}-arse-INFL’ (‘wagtail’) (cf. Greek *seis-o-pygís*)
- fulci-pedi-a* ‘hold.up-feet-INFL’ (‘arrogant woman’)
- verti-cordi-a* ‘turn-heart-INFL’ (epithet of Venus, i.e. *Venus Verticordia*)

- Medieval Latin: Agentive VN-compounds are found in place names and proper names (cf. Darmesteter 1894: 234)

(34) a. *Tene-gaudia* ‘have-fun’ (from the *Testament d’Abbon*)
 b. *Porta Florem* ‘carry flower’

- Old French:

(35) a. *Boi l’-auwe* (‘drink the-water’)
 b. *Martin boi vin* (‘Martin drink wine’)

5 The rise and fall of VN-compounds in English

5.1 Overview

- There is a handful of (mostly onymic) instances of VO-compounds from pre-Norman times:

(36) a. *Clawecunte* (*claw[i]an*: ‘scratch’, *cunte* ‘vulva’),
 b. *Cunnebried* (*cunnian* ‘test’, *bried* ‘bread’).

- Singular occurrences in EME (11th–13th cent.):
 - *wesche-dish* ‘dish-washer’
 - *kealche-cuppe* ‘heavy drinker’ (*cylcan* ‘belch, swallow’)

(37) a. direct borrowings: *chaunte-cler* ‘sing-clear’ (‘cock, chanticleer’), *cache-pole* ‘chase-chicken’, *cheuer-chef* ‘cover-chef’ (> *kerchief*), *ward-robe* (‘guard-robe’)
 b. hybrid formations: *dobbe-dent* (‘beat-tooth’ [dentist]), *steal-placard* (‘steal-begging.license’)
 c. calques: *bere-blisse* (cf. Fr. *porte-joie*), *break-stone* (cf. Fr. ‘rom[p]-pierre’)

- Considerable increase in the 14th+15th cent. (e.g. *let-game* ‘spoilsport’ in Chaucer)
- Peak in the 16th cent. (e.g. *kill-courtesy*, *lack-brain*, *lack-beard* in Shakespeare), followed by a decrease up to the present.

5.2 A quantitative study

- Data: random sample from OED, on the basis of Uhrström (1918)
- 337 compounds, classified into five categories: (i) human, (ii) animal, (iii) plant, (iv) object, (v) event
- Earliest mention in OED was determined
- Frequencies were relativized to the corpus size for each century

Figure 1: First mentions in sample: Absolute frequencies

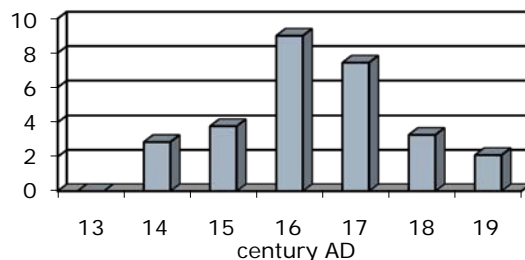
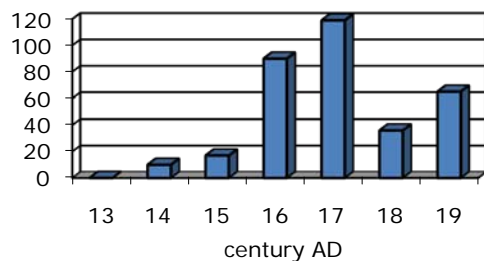


Figure 2: First mentions relative to corpus size (n/25,000 quotations)

- VN-compounds in the English lexicon

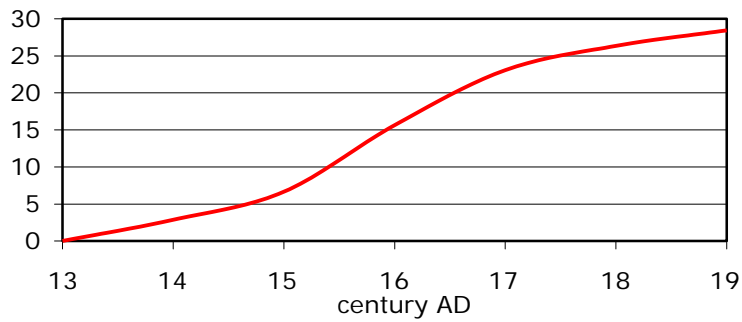


Figure 3: Cumulative frequencies of first mentions (n/25,000 quotations)

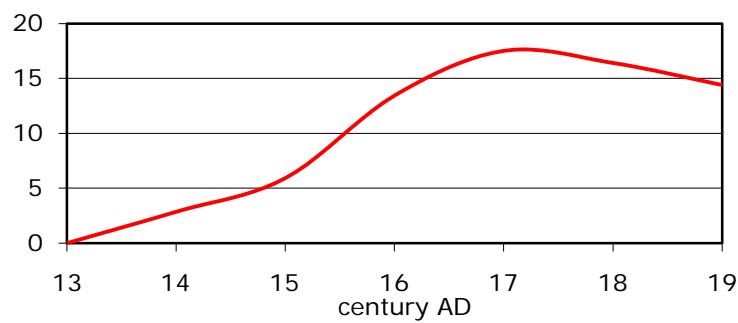


Figure 4: Estimated number of VO-compounds per 25,000 quotations (with an assumed 25% loss of existing compounds each cent.)

- Competition between VN-compounds and ‘synthetic compounds’ (-er)

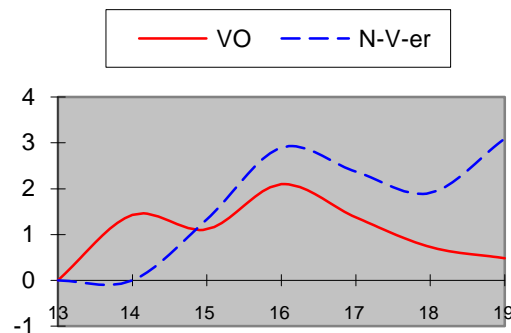


Figure 5: First mentions of VO-compounds and synthetic compounds based on *break, kill, turn, lick, pick* and *scratch* (n/25,000)

- Exocentric VN-compounds were ‘imported’ into the grammar of English.
- Later, they were superseded by synthetic compounds.
- Why did synthetic compounds win out?

Literature

- Becker, Karl Ferdinand (1824/1990). *Die deutsche Wortbildung oder die organische Entwicklung der deutschen Sprache in der Ableitung*. Hildesheim: Olms.
- Bork, Hans Dieter (1990). *Die lateinisch-romanischen Zusammensetzungen Nomen + Verb und der Ursprung der romanischen Verb-Ergänzung-Komposita*. Bonn: Romanistischer Verlag.
- Bornemann, Eduard and Ernst Risch (1987). *Griechische Grammatik*. 2nd ed. Braunschweig: Diesterweg.
- Carr, Charles T. (1939). *Nominal Compounding in Germanic*. London: Oxford University Press.
- Clemm, Wilhelm (1867). *De compositis Graecis quae a verbis incipiunt. Doctoral Dissertation*, Giessen.
- Darmesteter, Arsène (1894). *Traité de la formation des mots composés dans la langue Française*. Paris: Honoré Champion.
- Fabian, Erich (1931). *Das exozentrische Kompositum im Deutschen*. Leipzig: Eichblatt.
- Gast, Volker (2008). V-N compounds in English and German. *Zeitschrift für Anglistik und Amerikanistik* 56.3: 269–282.
- Gather, Andreas (2001). *Romanische Verb-Nomen-Komposita. Wortbildung zwischen Lexikon, Morphologie und Syntax*. Tübingen: Narr.
- Kastovsky, Dieter (1982). *Wortbildung und Semantik*. Tübingen/Düsseldorf: Francke/Bagel.
- Kastovsky, Dieter (1985). Deverbal nouns in Old and Modern English: From stem-formation to word-formation. In Fisiak, J. (ed.), *Historical Semantics: Historical Word Formation*, 221–261. Berlin etc.: Mouton.
- Marchand, Hans (1969). *The Categories and Types of Present-Day English Word-Formation. A Synchronic-Diachronic Approach*. 2nd ed. München: Beck.
- Meissner, Torsten & Olga Tribulato (2002). Nominal composition in Mycenaean Greek. *Transactions of the Philological Society* 100.3: 289–330.
- Miklosich, Franc (1876). *Vergleichende Grammatik der Slawischen Sprachen, Band 3: Vergleichende Wortbildungslehre*. Wien: Braunmüller.
- Namer, Fiammetta & Florene Villoing (2007). Have cutthroats anything to do with tracheotomes? Distinctive properties of VN vs. NV compounds in French. In Booij, G. et al. (eds), *Proceedings of the Fifth Mediterranean Morphology Meeting*, 105–124. Bologna: Università degli Studi di Bologna.
- Osthoff, Hermann (1878). *Das Verbum in der Nominalcomposition im Deutschen, Griechischen, Slawischen und Romanischen*. Jena: Hermann Costenoble.
- Pilch, Herbert (1996). Word formation in Welsh and Breton. *Zeitschrift für Celtische Philologie* 48: 34–88.
- Progovac, Ljiljana (2006). Fossilized imperative in compounds and other expressions. In *Online Proceedings of the First Meeting of the Slavic Linguistics Society (SLS), Bloomington, IN, September 2006*.
- Rubenbauer, Hans and Johann B. Hofmann (1995). *Lateinische Grammatik*. 12th ed. Bamberg: Buchner.
- Sauer, Hans (1992). *Nominalkomposita im Frühmittelenglischen. Mit Ausblicken auf die Geschichte der Englischen Nominalkomposita*. Tübingen: Niemeyer.
- Schönle, Paul Walter (1975). *Zur Wortbildung im modernen Russisch*. München: Sagner.
- Schwyzer, Eduard (1939). *Griechische Grammatik. Auf der Grundlage von Karl Brugmanns griechischer Grammatik. Teil 1: Allgemeiner Teil, Lautlehre, Wortbildung, Flexion*. München: Beck.
- Uhrström, Wilhelm (1918). *Pickpocket, Turnkey, Wrap-Rascal, and Similar Formations in English: A Semasiological Study*. Stockholm: Bergvall.
- Yoon, Jiyoung (forthcoming). Constructional meanings of verb-noun compounds in Spanish: *Limpiabotas* vs. *tientaparedes*. To appear in *Language Sciences*.