1 Introduction
Word classes (categories, parts of speech = PoS) are central to many linguistic theories, descriptive and prescriptive of English and (and) word classes. What do they buy us, and what do they cost? Keep in mind three widespread methodological or theoretical assumptions about word classes:

(1) a. Word classes are established by distributional tests.
   b. In a given sentence, each word belongs to one and only one word class.
   c. In a PoS-tagged corpus, consistency of mark-up is of overriding importance.

Each of the assumptions (1) can be held or rejected independently. Will concentrate on case studies from histories of of (over 3m tokens in British National Corpus) and to (nearly 2.6m) – 2nd and 4th place in frequency, discounting punctuation tokens, and between them 5.72% of words in BNC. Both are prepositions in origin. For convenience I use PREPOSITION in traditional way = item prototypically with NP complement, forming a PP with it (cf. Cambridge Grammar, where P includes adverbial particles and subordinating conjunctions).

2 Of

2.1 The split into of ~ off
In OE, only one word. Of is predominantly a preposition of clear spatial meaning, ‘from, out of’.

<table>
<thead>
<tr>
<th>tag</th>
<th>spelling &lt;of&gt;</th>
<th>spelling &lt;off&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>P = preposition (or subordinating conjunction)</td>
<td>6,803</td>
<td>97.1</td>
</tr>
<tr>
<td>P in þerof (various spellings), tagged ADV+P</td>
<td>26</td>
<td>0.4</td>
</tr>
<tr>
<td>RP = adverbial particle</td>
<td>169</td>
<td>2.4</td>
</tr>
<tr>
<td>RPX, X = tag for unknown part of speech</td>
<td>7</td>
<td>0.1</td>
</tr>
<tr>
<td>totals</td>
<td>7,005</td>
<td>100</td>
</tr>
</tbody>
</table>

Table 1: Tagging of of/off in York Corpus of Old English

For the tag scheme of the Penn Corpora see Santorini (2010). The vast majority of examples have of as a clear preposition in a prepositional phrase, as in (2); only a small proportion of uses of of are coded as adverbial particles, RP, as in (3):

(2) And þa þa he ut eode [þa of, þam bæðe] and when he out went from the bath
(3) & sloh þæs sacerdes þeow & [þe his eare] ofe eaceraf and struck the priest’s servant and his ear off cut

These would correspond to off in ModE.

Excursus: Comparison with on

In OE of behaves much like other preposition/adverbs; cf. on, whose statistics are broadly similar. Purely prepositional use overwhelmingly dominant, + small cluster of adverbial particle uses. Note reversal in overall frequency between on and of: in OE, on is 5x as frequent as of, whereas in BNC, of alone is 4x as frequent as on.

(On 22.5k pmw OE → 7.4k pmw PDE; of 4.7k pmw → 31k pmw.)
Table 4 suggests that the differentiation of the two words is well under way during eModE. No exact moment when split occurs. By late ModE it is clear that *of* and *off* are two wholly distinct words, as shown in Table 5:

<table>
<thead>
<tr>
<th>spelling</th>
<th>of/</th>
<th>off/</th>
</tr>
</thead>
<tbody>
<tr>
<td>pronunciation of consonant</td>
<td>[v]</td>
<td>[f]</td>
</tr>
<tr>
<td>pronunciation of vowel</td>
<td>can be reduced to [ə]</td>
<td>never reduced to [ə]</td>
</tr>
<tr>
<td>word class</td>
<td>always preposition</td>
<td>preposition or adverbial particle</td>
</tr>
<tr>
<td>semantics</td>
<td>purely relational</td>
<td>spatial (or metaphorical extensions, or Aktionsart etc. values in phrasal verbs)</td>
</tr>
</tbody>
</table>

**Table 5: Of and off in Present-day English**

### 2.2 Quasi-ellipsis

Unlike most preposition/adverbs, *of* has always been overwhelmingly transitive (cf. *at, with*). In late OE/early ME, it could occasionally precede a clause with properties of both adjuncts and complements; see QUASIELLIPSIS in Denison (1985: 200, 1993: 141-3). In examples like (4)-(5), never numerous, *of* is behaving unlike either a traditional preposition or an adverbial particle:

4. *De deade nis noth of; pah he ligge unburiet* (c1230(?a1200) Ancr. 95a.17)  
   *the dead* (OBL) not-is nothing from though he lie unburied

5. *Ah ful wel he let of hwen ei seið pet ...* (c1230(?a1200) Ancr. 82b.17)  
   *it does not matter at all to a dead man if he lies unburied*

Quasi-ellipsis critical to early development of prepositional passive in a family of closely similar combinations (leten of/by, setten of/by, tellen of/by ‘regard, esteem, think of’. By 14/15C, the prepositional passive extended to most prepositions (given appropriate syntactic and semantic relations between V+P and NP complement), and *of* had reverted to being purely prepositional.

### 2.3 Multi-word prepositions

In OE there is an incipient multi-word preposition *ut of* (173 times as a string in YCOE, tagged as RP followed by P). Example (2) shows that the two items can be separated in OE. Gradual loss of separability over time as out of begins to lexicalise, but separate tagging does no harm.

MOdE has many so-called compound prepositions ending in *of*, always purely prepositional: in front of, by means of, etc. Single items, with whole string belonging to word class P, or separate words, where *of* is P? (Aarts 2007, Denison 2010: 122, Hoffmann 2005, Huddleston & Pullum 2002: 618-23, Quirk et al. 1985: 670-3). As a combination lexicalises, balance of plausibility between two analyses may change. Gradual. PPCMBE, a corpus which stops at 1914, is on balance justified in tagging *on behalf of* as three separate words, *on* prep., *behalf prep., of*, but variation with *on X’s behalf* is disappearing in PDE (Denison forthcoming, 2012). So a historical corpus continued to PDE might justify different lemmatisations for recent decades as against older periods, violating (1)c. Even stronger case for *by dint of* or in spite of, which have no alternative with ‘s. Despite their fossilised and idiomatic nature, Huddleston & Pullum (and others) still argue for a *syntactic* analysis as three separate words with one of two internal structures (bearing a compound preposition) (2002: 621). Beckner & Bybee (2009, cited by Reynolds & Pullum in prep.) adduce semantic and corpus evidence for a compound preposition analysis *alongside* the separate-word analysis:

Yet our position predicts that a word sequence may gradually form a unitary status even while component words are partially activated on each use. [...] [Note that even as *in spite of* strengthens in constituency, it does not instantaneously become fused into an indivisible unit. The sequence continues to maintain some connections to the separate words *in*, *spite*, and (most importantly here) *of*. (2009: 40)]

Much theoretical linguistics has striven to exclude all redundancy from analysis and from mental grammars, but the tide is turning; see for example Jackendoff (2011). Formal and structural grammarians tend to put the burden of proof on the lumpers rather than the splitters, as if any string must be considered as made up of independent words until proven 100% lexicalised. This ignores gradual skewing of behaviour as a result of lexicalisation.

#### 2.4 SKT-constructions

I use the term SKT-CONSTRUCTIONS for binominal structures involving N₁ = *sort, kind* or type:

6. (...) N₁ of (...) N₂

Among a whole network of related constructions are (examples from BNC):

7. the Canadians had one sort of sovereign, and the British had another sort (A69 1471) – REFERENTIAL CONSTRUCTION

8. There was a kind of inevitability about the whole proposal which appalled Alexei. (G17 1172) – QUALIFYING CONSTRUCTION

9. It kind of built his confidence with each successive flack (A14 937) – ADVERBIAL

See Denison (2002, 2011), Keizer (2007) (I follow her nomenclature), Brels & Davids (2010). In the referential construction, (7), *of* is routinely a preposition. The adverbial use of (9) lacks any complement nominal, and *of* has been incorporated into a unit with a preceding noun (Huddleston & Pullum 2002: 621). But at what stage did reanalysis occur? There are several candidates for the best synchronic analysis for (8), but I will confine discussion to:

10. a [(kind₁ [av of: inevitability])]

11. a *kind of* inevitability

In analysis (10) *kind* remains a noun, postmodified by a PP headed by *of*, like referential construction, (7). In (11), *kind* of recognised as unit acting as premodifier of *N₁* inevitability, like the premodifier use in adverbial (9).

Justification for analysis (11) includes formal properties which differentiate qualifying from referential construction (7), plus semantic and pragmatic differences:

<table>
<thead>
<tr>
<th></th>
<th>referential</th>
<th>qualifying</th>
</tr>
</thead>
<tbody>
<tr>
<td>D₁</td>
<td>free</td>
<td>indefinite</td>
</tr>
<tr>
<td>N₁</td>
<td>sort, kind</td>
<td>type</td>
</tr>
<tr>
<td>N₁ number</td>
<td>free</td>
<td>singular</td>
</tr>
<tr>
<td>primary stress</td>
<td>D₁ or N₁</td>
<td>N₂</td>
</tr>
<tr>
<td>N₁ omissible</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>semantic head</td>
<td>N₂</td>
<td>N₁</td>
</tr>
<tr>
<td>discourse function</td>
<td>discourse topic or anaphor</td>
<td>hedge, often metaphorical</td>
</tr>
<tr>
<td>style</td>
<td>neutral</td>
<td>informal</td>
</tr>
</tbody>
</table>

#### Table 6: Referential vs. qualifying SKT, from Denison (2002) (after Keizer)

As with compound prepositions, both analyses, (10) and (11), may remain in play to some extent. In analysis (10), *kind* remains N and *of* is P. Apart from maybe ‘explaining’ why *of* is unstressed, the word classes tell us little. In (11), word class would be assigned if anything only to the unit *kind of*. *Kind of* in (8) is not A, or at least very far from prototypical A. Semantically somewhat like D, especially if analysed as a *kind of*. *Kind of* is extended to act as a modifier of various XPs, as in (9), the word class becomes truly problematic: neither D nor A would be appropriate for a VP modifier, while Adv would be odd for an NP modifier. Quirk et al. list it as a COMPROMISER OR DOWNTONER
If I had ha' seen Nancy, I should ha' given her my mind very different. … (1864-6 Gaskell, Wives & Daughters [WC] v.777) [Mrs. Goodenough]

Mrs. Goodenough discussed, either for the whole string or its two component words. Marianne Hundt (p.c. 15 Aug 2012) observes (22)

(22) ‘If I had ha’ seen Nancy, I should ha’ given her my mind very different. …’ (1864-6 Gaskell, Wives & Daughters [WC] lii.646) [Square Hamley, bluff old-fashioned gentry]

Little Domley was my friend at old Blimber’s, and would have been now, if he’d have lived. (1848 Dickens, Little Dombey)

It’s a little cartoon, it’s just cheap and enj– like Bart Simpson kind of. (KPG 4168)

If it hadn’t a been for Old Cribb there wouldn’t have been none (BNC H09 1152)

Had I known of your illness I should not of written in such fiery phrase in my first Letter. (1819 Keats, Letters)

Infinitive have is special. Brian Joseph and Joyce Tang Boyland found that

there are speakers who used the preterite form in modal perfect contexts [e.g. should’ve took – DD] and but [sic] the standard past-participle form in regular perfect contexts. For these speakers at least, the modal perfect is losing its connection to the perfect. (Boyland 1998: 4)

Infinitive have may be grammaticalising separately from rest of have-perfect paradigm, its semantics is becoming associated with modality/non-assertiveness, hence irreals. NB. double use would have liked to have gone, frowned on by prescriptivists but not ungrammatical (Denison 1998: 140).

So <of> in (14)-(20) is more than a mere misspelling, even if made possible by homophony between the unstressed preposition of and the verb have as [av]. But spelling <have> is relatively unusual in representing only a verb (rarely as N in a must-have or the haves), while <of> is unusual in spelling a form which is uniquely a pure preposition. Therefore when writers get is ‘wrong’, it is almost certainly significant for word class assignment. There is strong anecdotal evidence that many educated young Britons do not realise – let alone assume – that there is any connection with the verb have, and the occasional pronunciation [av] is another strong indication.

Back to Zinnie. The of morpheme in her (21) is genuinely non-standard. That is a pattern with quite a long history, the element in question variously spelled have/ve/of/ha:a/

(21) “Terry’s with his tutor at present,” said Blanca …

“But he said he wouldn’t have come down even if he hadn’t of been,” chimed in Zinnie (1928 Edith Wharton, The Children, viii.71)

These examples do not involve the ‘superfluous’ morpheme but rather point to cliticisation (and further grammaticalisation) of the have-perfect when used with modals. Some further examples:

(37) a sentiment he would have probably denied (1961 Brown corpus G65 1880)

(38) ‘I should’ve never went on a stupid blind date. They never work out.’ (1992 Armistead Maupin, Maybe the Moon xx.225)

might’ve he continued to elude police, had that fourth murder not occurred? (COCA 1999)

Thus (33)-(39) provide evidence of incipient weakening of the neat auxiliary patterning that was the strongest motivation for assuming that ‘ve in (32) was purely the verb have.

Denison, ‘Word classes’ p.6 of 12
3 To
What are usually regarded as three distinct words in PDE share a common origin, according to the etymological reference works: to as conventional spatial preposition, as infinitive marker, and as intensifier spelled from the 16C with <oo>, too. I am concerned here with the infinitive marker.

3.1 Infinitival to
A syntactic word, usually proclitic to an infinitive (Pullum 1982: 185). Four possible word classes:

(40) a. preposition
b. word without category
c. auxiliary verb
d. VP subordinator

In OE traditionally seen – in origin at least – as normal prepositional to followed by nominal form of verb with dative inflection (OED s.v. to prep., conj., and adv. B). (Los asks whether the verbal ending was inflectional or derivational; she also questions to what extent the infinitive was still syntactically nominal by the historical period of OE (1999).) Some parallel examples where an infinitive represents goal or destination, like an ordinary NP complement of to:

(41) a. Ac hwi ferde ge to seonne þone man mid hnescum reafum gescryddne (Lk(WSCP))
    But why went you to see the man with soft robes clothed
b. hi ferdon to Sinai westene (Exod. B8.1.4.2)
    they went to Sinai desert

Los cites a coordination of to-PP and to-infinitive (1999: 21). Even if to can safely be labelled as P, the infinitive would be a problem for word class: nominal inflectionally and in its relation to to, but verbal syntactically in its relationship with adjuncts and complements. (Cf. the -ing gerund in ModE.) However, preposition-like behaviour weakens from earliest records:

With infinitive in substantival relation. Equivalent to a noun or gerund: to being ultimately reduced to a mere ‘sign’ of the infinitive without any meaning of its own. (OED sense B. III)

When is ultimately? In PDE the P analysis for to is disfavoured (Huddleston 2002: 1184-5). Instead to is generally just called an infinitive marker – in effect a unique member of a minor category, given that at, till and for to are no longer current. Since word classes are for capturing generalisations, belonging to a single-member class is equivalent to belonging to no class at all, what Pullum calls SYNCAATEGORICMATICITY (1982), a violation (albeit generally ignored) of assumption (1)b. Pullum prefers to analyse infinitive-marking to as a highly idiosyncratic auxiliary verb. The principal argument in favour is behaviour under post-verbal ellipsis, aka AUXILIARY STRANDING (Huddleston 2002: 1519-26), parallel to auxiliary verbs ('operators') (Pullum 1982: 199-200) (my examples from BNC):

(42) He wants to break away. He means to _ (AT7 1835)
(43) But one look at her face told me she had _ (A6E 583)
(44) I would like to go with him if I could _ (EVC 1899)

Clearly, though, if to is a verb, it is an odd one. Pullum argues that it is an obligatorily untensed auxiliary. Like other untensed auxiliaries before an ellipsis site, it cannot carry stress:

(45) a. ‘Oh, you couldn’t have,’ Mrs Yardley protested. (ADD 1084)
    b. *Oh, you couldn’t have
(46) a. He wants to break away. He means to.
    b. He wants to break away. *He means to.

That to can plausibly be categorised as a verb is indeed ‘unexpected’ (Pullum 1982: 184): verbs are usually thought of as predicators, highly inflected, prototypically about events or actions. Infinitival to is none of these. Pullum (1982: 200-1) quotes Zwicky & Levin (1980), who coined the term INFINITIOD for a class consisting of the infinitives of be, of perfect have and (in BrE) of supportive do, plus to. These share the property of obligatorily stresslessness when just before the deletion site in Verb Phrase Deletion. By analysing to as an untensed verb, Pullum makes INFINITIOD a natural class instead of a stipulated disjoint set (and removes the need for a special name).

In a solo chapter of the Cambridge Grammar, Huddleston weights up this analysis against an alternative, that infinitive-marking to is a VP subordinator that belongs with the clause subordinators that and whether, and comes down for the latter (2002: 1185-7). Levine (2012) reviews their evidence, adds another fact, and swings the pendulum decisively the other way, showing that Pullum’s 1982 analysis of to as an auxiliary verb is far preferable. Yes, if we can only have one – but do we need to choose between them? Huddleston’s classification brings out one set of analogies, namely of semantically bleached non-prepositional words that introduce subordinate clauses by forming a constituent with them. One well-known fact that is not (as far as I know) discussed by these three scholars is that such constituents can act as subject, often extraposed:

(46) a. That he was deficient was obvious (BNC 447)
    b. It was obvious that she was very upset and alarmed. (CEY 2401)
(47) a. Whether this is a true oral papillae or a modified tentacle scale is uncertain. (H79 1033)
    b. It is uncertain whether words alone can amount to an assault. (HXE 2006)
(48) a. To act in such a way is wrong (B08 866)
    b. It would be wrong to paint a gloomy picture. (ED7 2848)

BNC has no examples tagged as such in initial position and only a few dubious extraposed ones:

(49) a. *Have eaten too much is foolish.
    b. *It’s foolish have eaten too much.
(50) a. *Be found in possession is foolish.
    b. *It’s foolish be found in possession.
(51) You know you you m-- you might be able be a little bit blameworthy in some instances? (FM1 54)
(52) if you come and ask me the same question I would be able be in a better position to give you an answer. (HMN 1123)
(53) it’s better be calm I don’t care (KSS 2880)

Levine pours scorn on classification of to as a subordinator, since it can be preceded by the subordinator whether, whereas “subordinator doubling” is not permitted. But whether can introduce a subordinating conjunction like because (‘preposition’ in H & G’s terms), (55), and even occasionally the clause subordinator that, (56)-(57):

(54) And I didn’t know whether to laugh with pleasure or to cry with pain. (HD7 2455)
(55) Whether because they had ceased to be pleased about her birthday or simply because they were tired, she did not know. (BNC A0L 776)
(56) As long as I do that, at any rate, Pa and Ma will always find something to reproach me with, whether that I don’t obey the rules of decorum or that I have an indelicate way of expressing myself or that I’m breaking ties or something of the kind. [TheWebCorp Vincent van Gogh Letter 186 To Theo van Gogh. Etten, Friday, 18 November 1881. http://vangoghleters.org/letter/let186/letter.html]
(57) (1) Whether creatures always existed.
    (2) Whether that they began to exist is an Article of Faith. (I.447, ed. Anton C. Pegis, c.1945)

Huddleston’s assignment of word class would put to in a class of its own, or possibly a new class of three if added to the clausal subordinators that and whether. Pullum’s classification focuses on the verbal component of clause. The strongest evidence for verbal status, ellipsis a.k.a. stranding, is a relatively recent innovation (IS8) is very early):

(58) I think I could come as often again as I used to. (ARCHER 1766admx.x4a)
but as he had bothered me to, I consented. (PPCMBE HAYDON-1808,1,34.871)
(60) Puiface Not a farthing, unless I am obliged to , by law. (1812 COHA)
(61) You won't forget?” said Newman.

“I am not very likely to,” rejoined Nicholas. (1838-9 Dickens, Nickleby xxii.271)

For discussion of early examples, see Visser (1963-73: §1000),Warner (1993: 64), Denison (1998: 201-2). And of course it is not the prototypical V that to is being grouped with, but a set of auxiliary verbs – a minor category that didn’t even exist before the late 16th century, according to Lighfoot, though many have argued that the period of emergence was long-drawn-out and started much earlier. These auxiliary verbs – M, have, be, do – all differ amongst one another, but M, have and be are arguably stative, while M and a number of newer accritions to the class are exhibiting less and less inflectional variation. In fact to is assigned to an even smaller subgroup, the untensed auxiliaries. Clearly, whichever of the word class assignments (40)b,c,d is preferred for infinitive-marking to, the word class in question has very limited membership, and the number of distributional generalisations involved may be quite small.

4 Open and closed classes

These three polarities in relation to word classes are all slightly different:

- open ~ closed
- lexical ~ functional
- major ~ minor

In an unpublished paper, Reynolds & Pullum (in prep.) show convincingly, using corpus data mainly from various Google giga- and tera-corpora, that it is impossible to draw a strict line between open and closed word classes: all are open to new members, some more than others. I believe the same goes for the lexical ~ functional polarity, unless of course it is hard-wired into a formal model of grammar as an absolute binary choice. To the extent that the grammatical words of and to belong to word classes, these are classes of small membership, often highly language-specific and indeed period-specific: classes come into existence and change rapidly (e.g. Modal in last few centuries). The so-called open classes are represented throughout the history of English, and although there have been major losses and accritions of membership, the classes themselves seem intuitively to change less, even though they are more open to new members. (The hierarchy of openness tentatively offered by Reynolds & Pullum has noun > verb > adjective > adverb at the top end.) As argued in (Cort, Denison & Spinillo 2006).

One [way of generalising from minor to major classes] is to assert that any category is simply the average of its members’ properties, and that when either the membership or individual properties of members change, so must the category. With a small and recent category like M or D, such categorical change is evident. With a larger category like N or V, small changes in membership or distribution make a less perceptible difference to the overall ‘average’, and so such categories look superficially very stable. However, over a long enough period of time, even major categories change their morphosyntax.

5 Intermediate conclusions

Revisit case studies to see what they tell us about word classes and vice versa:

- 2.1 of ~ off: unchanged word class of of disguises huge change in semantics, in grammatical significance, in frequency; gradual split with off, likewise arguably involving no change of word class, hides change of pronunciation
- 2.2 Quasi-ellipsis: short-lived change in behaviour which is difficult to model in word class terms, nevertheless implicated in the origins of the prepositional passive
- 2.3 Multi-word prepositions: should word class apply to individual components or whole string? And individual analysis becomes decreasingly revealing of behaviour – for any but last element, of – the more frozen the compound preposition becomes.

- 2.4 SKT: dual analysis possible for qualifying construction, and word class analysis problematic for adversative usage, which is primarily pragmatic.
- 2.5 Have ~ of: word class is highly relevant to non-standard usage with extra morpheme, with probable reanalysis of ‘ve from V to particle or Adv. However, this calls into question affinities of infinitive of have in standard.
- 3.1 Infinitival to: Word class assignment requires use of (mostly) infrequent patterns of fronting and so on and groups to with very few other elements. Best potential grouping is itself rather recent. The older grouping retains some explanatory value. Argues against unique word class.

Elsewhere I have shown that some items are underspecified for word class assignment, where both semantics and structural alignment are unaffected by choice of terminal symbol (e.g. Denison 2010). Situation can obtain when a given word occurs in some contexts clearly as one class, in others clearly as a different word class (but with the same meaning), and in yet other contexts where the word class distinction is neutralised. So in (64), genius is clearly N, in (65) it is A, and in (66) it is unhelpful to choose between N and A (assuming that the writer has both N and A values for genius in their lexicon). In similar fashion, various is A in (67), D in (68), and either or both of A and D in (69):

- (64) He’s a genius, unbelievable. (Mo Farah, quoted http://www.telegraph.co.uk/sport/olympics/athletics/9470759/Mo-Farah-my-move-to-the-US-transformed-me-from-a-weakling-who-can-lose-a-girl-into-an-Olympic-champion.html)
- (65) This series is arguably the most genius, the most entertaining and the most poignant chapter in the Father Ted chronology. (2001 http://www.amazon.co.uk/product-reviews/B00004ZBXX 8.09.2001 ‘accessed 3 Nov. 2009’ [WebCorp])
- (66) everyone else’s genius tactics also came up blank. (http://www.podiumcafe.com/2012/7/28/3198318/kmo-forever-vinokourov-wins-the-olympic-r-c-from-the-break)
- (67) [...] as a way of making his readers see a complex and various world. (BNC ECB 178)
- (68) groups who are trying to bring various of the Olympic sponsors to justice (http://files.4grass.wordpress.com/2012/08/11/olympics-ideal-actual/)
- (69) The IAAF said they had been collecting samples from various athletes in the build up to the Olympics (http://www.wlky.com/olympics/Nine-athletes-banned-for-doping-offenses/-/15411752/15701336/-/r12bn5/-/index.html)

In other cases, dual resemblance involves both a word class difference and a structural difference. This is often treated historically as a (catastrophic) reanalysis. Beckner & Bybee (2009) argue that reanalysis can be gradual; cf. have ~ of in $2.5, both gradual and very much incomplete to date.

An item that belongs to one word class may be coerced in its behaviour by a construction. Thus the verb tweet in its Twitter-related sense (not yet in OED) has developed a consistent pattern of use that resembles various of say, speak, transmit, text, write:

- (70) If you’re at the movies, don’t tweet. (COCA 2012)
- (71) [Sarah Palin] tweeted a picture from Alaska. (COCA 2010)
- (72) Many Olympic track and filed [sic] athletes have tweeted their displeasure with what is known as Rule 40. (http://www.facebook.com/don.cabral.run/posts/28826984361447)
- (73) David Cameron will face pressure to remove the Tory whip from the Conservative MP Aidan Burley after he tweeted that the Olympics opening ceremony was “multicultural crap”. (http://www.guardian.co.uk/politics/2012/jul/26/olympics-opening-ceremony-multicultural-crap-tyrony)

However, it can be recruited by the way construction (Israel 1996) and used there with a different kind of object:

- (74) Celebs tweet their way through the London 2012 Olympic Closing Ceremony (http://www.dailymail.co.uk/hotinez/article-2187842/Celebrity-tweet-way-London-2012-Olympic-Closing-Ceremony.html#ixzz2Y3vKsk0H)

This kind of coercion may affect subcategories or even major word classes (e.g. proper name ~ A). Thus there is traffic both ways between countable and mass nouns. Mass nouns behave like count nouns in portion or serving settings (two beers, a coffee), and vice-versa in contexts like showing too much leg.

- (75) there are probably around a million tons of pet dog in the US alone (http://what-if-skcd.com/7/)
- (76) The opening ceremony is So Danny Boyle! (http://twitter.com/dansmyrealtor)

Denison, ‘Word classes’. p.10 of 12
6 What are word classes (for)?

I do not believe that word classes are Aristotelian categories with clean boundaries between them. Aarts discusses gradience between classes — what he calls INTERSECTIVE GRADIENCE (e.g. Aarts 2004, 2007) — but attempts to remove most cases by counting up somewhat arbitrarily chosen features and hoping not to get a numerical dead heat. If this approach is designed to save the word class as the basis of algorithmic syntactic analysis, it may be misguided synchronically, and it is quite unhelpful diachronically. If we treat word classes as generalisations (whether by speakers or linguists), then it is obvious that in some cases a given item may share patterning with (= show resemblances to) more than one item simultaneously. A familiar case: near, as P or A. If so, degrees of resemblance may be unequal, but this need not invalidate the lesser resemblance.

Word classes display prototype effects, but whether they are actually best modelled with Prototype Theory is less certain (Taylor 2004). The minor category of Modal verbs certainly shares many morphological, syntactic and semantic properties which distinguish them collectively from all other verbs, but quite apart from recent falls in frequency of core modals (Leech et al. 2009), arguably there is no one core modality which carries all the properties:

• Can/could: retain some normality in the distinction between present and past tense; epistemic meanings limited.
• May/might: obsolescent (certainly in AmE), no longer treated as a present ~ past pair, loss of negatives *mayn’t, ?mightn’t.
• Must: does not normally have past tense reference, and for most users therefore cannot appear in the apodosis of an unreal conditional.
• Shall: obsolescent except in 1st person interrogatives.
• Will/would: lack typical semantics.

Family resemblance or the cluster concept may work better. But without default inheritance and overrides, and especially dual inheritance, word classes are no more than a convenient expository generalisation. You can always go for finer-grained classes, and in the extreme case, every single word may be in a class of its own (Gross 1979).

Many of the mini-histories I have been looking at involve lexicalisation and grammaticalisation. They concern not individual words but words in, and part of, particular patterns — patterns of syntax, semantics, phonology, pragmatics, discourse. It is the patterns that change, the patterns that resemble other patterns. CONSTRUCTIONS. My guess is that my examples are not idiosyncratic, marginal examples but important and even not atypical.

The cost of any linguistic theory is the number of theory-internal assumptions which have to be made in order for the theory to work. The benefits are the predictions, insights and (unexpected) connections revealed by the use of that theory — and not available without it. How do costs and benefits stack up against each other? Even if the benefits are thought to outweigh the costs, could one do even better with a different theory? These are important questions. There is a long western tradition of taking word classes as basic to language description, and in the more highly theorised models, as axiomatic. It makes more sense to me to treat distributional word classes as epiphenomena of constructional behaviour. It is the semantics at least of the major classes that allows us to track the changes in membership and behaviour of word classes over the years in one language, or across languages.

References

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