# It was chance's chance to become polyfunctional in the modal domain

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#### 1. Introduction

• Focus on chance(s): "semiotic noun" (Halliday 1985), "shell noun" (Schmid 2000)

OEDonline on *chance* (< Old French; attested from ME onwards)

- "The falling out or happening of events; the way in which things fall out; fortune; case."
- "An opportunity that comes in any one's way. Often const. of."
- "A possibility or probability of anything happening: as distinct from a certainty: often in plural, with a number expressed."
- In "phrases": "To stand a (fair, good) chance"; "Is there any chance of....?"; "To be in with a chance"

#### 1. Introduction

• Chance(s) in verbo-nominal patterns in which it takes a complement (clause) (constructional templates)

EXIST	N	complement
HAVE	N	complement
N	COP	complement

#### Formal realizations of complement:

- that-clause
- *to*-infinitive
- of-PP  $\rightarrow$  of + V-ing; of + action NP
- $for-PP \rightarrow for + V-ing; for + action NP$

#### There BE DET ADJ chance(s) of/to/(that)

You have got the midterm election coming up here. My sense is that there's a very good **chance** the Republicans are going to take back the Senate (WBO)

#### Have DET ADJ chance(s) of/to/(that)

If he had a dropsy fit sitting there, I wouldn't have a **chance** to grab him because he goes that quick down. (WBO)

#### **DET** chances are (that)

if you 're really interested in the course then **chances** are you'll go out and buy the books (WBO)

• cf. doubt/question/way/wonder/need/fear + complement clause/relative clause: Kjellmer 1998; Van linden, Davidse & Brems 2011; Davidse, De Wolf & Van linden 2015; Saad et al. 2011; Brems 2015; Gentens et al. 2016

#### 1. Introduction

For Present-day English, Van linden & Brems (2017) showed that verbo-nominal patterns with *chance(s)* exceed the functional range of modal auxiliaries, as they exhibit **3 types of uses**:

- 1) They are functionally equivalent to modal aux  $\rightarrow$  grammatical uses
  - Grammatical uses expressing different types of modality (dynamic, deontic and epistemic)

    Since he was quite unable to run he had no chance of outstripping his pursuer, so he resigned himself to imminent recapture. (WBO UKwrit)
- 2) They exceed the functional range of modal aux:
  - Lexical uses

Many also devote inside pages to the policies and characters of the three contenders, and assess their chances of winning (WBO UKspok)

Third category: 'caused modality'

While executing their children 's killers would not bring back their loved ones, it would at least act as a catharsis, giving all concerned a better **chance** to move on with their lives (WBO UKwrit)

### Outline for today

- 1. Introduction
- 2. Present-day English
- 3. Diachrony of VNPs with *chance(s)* 
  - 3.1 Data and methods
  - 3.2 Diachronic overview
- 4. Conclusions

Van linden & Brems (2017): data and methods

- Queries run on WordBanks Online subcorpora (57 million word synchronic corpus)
- British English subcorpora:
  - Spoken: Brspok
  - Written: Brbooks, Brmags, Brnews, Brephem, Times, Sunnow
- Queries targeted the lemma *chance*
- Analysis of 250 random examples with complements for written and spoken each

### 2.1 Grammatical uses Dynamic modality

- generally defined in terms of (Palmer 1979: 3–4, 1990: ch. 5–6; Nuyts 2005, 2006):
  - abilities/possibilities, or needs/necessities
  - inherent in participants of actions, or in situations
  - no attitudinal assessment (i.e., no speaker attitude)
- 3) He [i.e. Sadam Hussein] has caused a superpower [i.e., the USA] to hesitate to use force against him. And he now has a **chance** to present himself as the only Arab leader who can compel the world to take the Palestine problem seriously. (brspok) [participant-imposed possibility: he can now present himself as ...]
- 4) with er the monkeys [...] they'd got chances to swing to the trees and that sort of thing (brspok) [participant-imposed possibility: they could swing to the trees]
- 5) It's such a fab feeling having a make-over with everyone fussing over you. I love everything about this outfit but what makes it more special is that I'd never get the **chance** to wear something like this back home on a night out. (sunnow) [participant-imposed impossibility: I would never be able to wear ...]

#### Deontic modality (as an inference)

- Permission/obligation & desirability of SoA (Nuyts et al. 2010; Van linden 2012)
- 6) But Shearer did not rule out the possibility of making the pairing work. He added: "Myself and Patrick should be able to form a good partnership -- if we get the **chance** to play together." (sunnow) [permission: if we are allowed to play together (by the coach)]
- 7) What about erm do you think while you were at school there was anything that you weren't allowed to do because you were a girl? -- Mm . <tc text="pause"/> E as well we had the **chance** to play football (brspok)

[permission: we were allowed to play football at school]

#### **Epistemic modality**

- speaker's (or someone else's) assessment of an SoA in terms of likelihood (Palmer 1979: ch. 3, 2001: 24–35; Van der Auwera and Plungian 1998: 81; Nuyts 2006: 6)
- Q. How does it seem this particular issue may be resolved? GREEN: There is a good chance that someone in Parliament may yet call for a vote of no confidence in Mr Sacher. (brspok)

  [epistemic probability: someone may well yet call for a vote]
- 9) I mean fair enough if you're really interested in the course then chances are you'll go out and buy the books (brspok) [epistemic probability: it is likely you go out and buy the books]
- 10) With between 13 and 14 per cent of the vote they [the Communists] are the second biggest political group nationwide. They know they stand no **chance** of being included in the future coalition government. That will most likely be a matter between the Civic Forum and the Christian Democrats. (brspok) [epistemic impossibility: they know they won't be included]

 Verbo-nominal patterns with chance(s) can express 'caused modality' in augmented event structures: addition of (positive/negative) causative operator to basic modal meaning

"greater modal system" (Talmy 1988: 81): Conceptual framework of FORCE DYNAMICS (Talmy 1988, 2000)

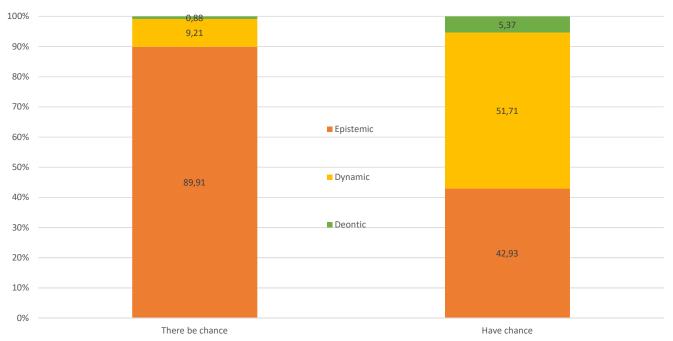
- applied to modal auxiliaries: entities interact with respect to forces and barriers
- as well as (lexical) causative verbs (e.g. make, let, have, help), e.g. (1):
  - syntactically similar to the core modals: take a bare infinitival complement
  - semantically similar: have force-dynamic reference
  - different in verb argument structure: code the Antagonist as subject, while modals code the Agonist as subject
- (1) I made him push the car to the garage.
- (2) He **must** push the car to the garage.

### 2. Present-day English: 'caused modality'

Modal type	Basic pattern	Augmented pattern: extra argument (Causer)
Epistemic	It has declared that it'll take account of legitimate Soviet security worries. And there's every chance the NATO summit will unveil a revised military strategy for the Alliance (WBO)	chairman John Yorkston has admitted Richard Gough's plan to draft in Archie Knox as his right-hand man has boosted his chances of being Pars gaffer. (WBO) (increase likelihood: make more likely)
	But erm then if you use er flux correction at the surface erm <m01></m01> Mm. <m02></m02> chances are you'll still have a thermohaline circulation and things like that (WBO)	Just seven days earlier, the White Feather had blown the <b>chance</b> of a draw for his relegation-racked side at Newcastle by having a penalty brilliantly saved by Shay Given. (WBO) (decrease likelihood: make less likely)
Dynamic	Since he was quite unable to run he had no <b>chance</b> of outstripping his pursuer, so he resigned himself to imminent recapture. (WBO)	but fears a dispute over a transfer fee might scupper any chance he has of making the move permanent. (WBO) (preclude: make impossible)
	they'd got <b>chances</b> to swing to the trees and that sort of thing (WBO, brspok)	While executing their children's killers would not bring back their loved ones, it would at least act as a catharsis, giving all concerned a better chance to move on with their lives (WBO) (enable: make possible)
Deontic	However, the paper says, in an historic move, the Soviet Union will be given the <b>chance</b> to join the International Monetary Fund (WBO)	Vinogradov 's difficult task was to restore the Kirov 's morale by providing new choreography alongside the 'classics' and by giving impatient young dancers a chance to prove themselves. (WBO) (allow)
	It is BBC policy that all parties to a contentious matter have a fair <b>chance</b> to make their points within the confines of programme format (WBO)	The North Korean premier said he would give the South one more chance to sit round the negotiating table. (WBO, brspok). (allow once more)

Study of two VNPs: there BE chance & HAVE chance by MA students in Liège (Piot & Blanchère 2017):

- Corpus study bases on WBO data
- Queries targeted the VNPs; random samples of 250 hits



	deontic		dynamic			epis	temic		Total AF	Total RF
	AF	RF	AF		RF	AF		RF		
of PP_ing-form	ı	0,00%	(0)	8	38,10%		69	33,66%	77	33,77%
to-infinitive	2	2 100,00%		5	23,81%		10	4,88%	17	7,46%
that-clause		0,00%		4	19,05%		104	50,73%	108	47,37%
covert		0,00%		1	4,76%		3	1,46%	4	1,75%
for PP actionN		0,00%		1	4,76%		2	0,98%	3	1,32%
of PP actionN		0,00%		1	4,76%		11	5,37%	12	5,26%
of PP pronoun		0,00%		1	4,76%		1	0,49%	2	0,88%
of PP entity		0,00%			0,00%		5	2,44%	5	2,19%
Total général	2	2 100,00%	2	1	100,00%		205	100,00%	228	100,00%

**Table 1.** There BE chance: Formal types of the complement across the types of modal meaning

	deontic		dynamic		3	epistemic		Total AF	Total RF
	AF	RF	AF	Ĩ	RF	AF	RF		
to-infinitive		3 72,73%	7	9	74,53%	13	14,77%	100	48,78%
of PP ing-form	Q.	2 18,18%	1	7	16,04%	57	64,77%	76	37,07%
covert		0,00%	)	7	6,60%	5	5,68%	12	5,85%
of PP actionN		9,09%	)	3	2,83%	13	14,77%	17	8,29%
Total général	1:	100,00%	10	6	100,00%	88	100,00%	205	100,00%

Table 2. HAVE chance: Formal types of the complement across the types of modal meaning

	deontic			dynamic			epistemic		Total AF	Total RF
	AF		RF	AF		RF	AF	RF		
near_negative		Т	0,00%		2	9,52%	41	20,00%	43	18,86%
near_negative/negative			0,00%			0,00%	2	0,98%	2	0,88%
negative		1	50,00%		11	52,38%	36	17,56%	48	21,05%
positive		1	50,00%		8	38,10%	126	61,46%	135	59,21%
Total général		2	100,00%		21	100,00%	205	100,00%	228	100,00%

Table 3. There BE chance: Polarity values across the types of modal meaning

	deontic		dynamic		epistemic		DUSE		Total AF	Total RF
	AF	RF	AF	RF	AF	RF	AF	RF		
near negative		0,00%		0,00%	10	11,63%		0,00%	10	5,10%
negative	2	18,18%	30	30,61%	10	11,63%	1	100,00%	43	21,94%
positive	9	81,82%	68	69,39%	66	76,74%		0,00%	143	72,96%
Total général	11	100,00%	98	100,00%	86	100,00%	1	100,00%	196	100,00%

Table 4. HAVE chance: Polarity values across the types of modal meaning

## 3. Diachrony of the VNPs with *chance* 3.1 Data & methods

Queries targeting different spelling and inflectional forms of chance:

Subperiod of English	Time span	Corpus	Number of words (millions)
Middle English (ME)	1150–1500	Penn-Helsinki Parsed Corpus of Middle English, Second Edition (PPCME)	1.16
Early Modern English	1500–1710	Penn-Helsinki Parsed Corpus of Early Modern English (PPCEME)	1.79
(EModE)	1570-1710	Corpus of Early Modern English texts (CEMET)	3.03
Late Modern English (LModE)	1710–1920	Corpus of Late Modern English texts, Extended Version (CLMETEV)	15.01

Middle English: 1150-1500

PPCME	Chance_n	Take one's chance
18	7	1

(11) Mordrede hade assemblede al þe folc of Cornwayle, and hade peple wiþoute nombre, & wist þat Arthure Was comyng. He hade leuer to Dye and **tak his chaunce**, þan lenger flee, and abode and ʒaf an harde bataile to Kyng Arthur & to his peple

'Mordred has assembled all the people of Cornwall, and had countless people, and knew that Arthur was coming. He had rather die and **take his chance**, than flee any longer, and (he) waited and gave a hard battle to king Arthur and to his people.' (PPCME, 1350–1420)

Middle English: 1150-1500

PPCME	Chance_n	Of-PP complement
18	7	1

- (12) A man or a womman, affraied wib any sodeyn chaunce of fiir, or of mans deeb, or what elles bat it be, sodenly in be heizt of his speryt he is dreuyn upon hast & upon nede for to crie or for to prey after help. (PPCME, 1350–1420)
- → of-PP refers to a situation: (afraid) that a fire may break out, or that somebody would die

Early Modern English: 1500-1710 in PPCEME

PPCEME	1500-1570	1570-1640	1640-1710	TOTAL
no complement	66	33	20	119
of-PP	8	0	1	9
to-inf	3	3	0	6
when-clause	0	0	1	1
TOTAL	77	36	22	135

- (13) And thou thynkest that these mutacio~s and chaunces of fortune, do wander wythout anye gouernoure. (PPCEME, 1500-1570)
- (14) And they can love no longer but until the next Ague comes, and they are fond of each other but at the **chance** of fancy, or the small Pox, or Child-bearing, or Care, or Time, or any thing that can destroy a pretty Flower. (PPCEME, 1640-1710)
  - → until the occurrence of small pox, ...

Early Modern English: 1500-1710

matrices of clausal complement types	1500-1570	1570-1640	1640-1710
it BE (POSS DET) chance + to-inf	2	3	0
(POSS DET) chance BE + to-inf	1	0	0
it BE not chance when	0	0	1
TOTAL	3	3	1

(15) After that lacke had long led this pleasant life, beeing though hee were but poore in good estimation; it was his Masters **chance** to die, and his Dame to bee a Widow, who was a very comely auncient Woman, and of reasonable Wealth. (PPCEME 1570-1640)

→ Happenstance meaning: 'it was his master's hap, fortune to die'

Early Modern English: 1500-1710

(16) it was my chaunce to meete with a Monster, who like the people Cynomolgy, had the proportion of a man, but headed like a dogge (PPCEME 1570-1640)

→ Happenstance meaning: 'it was my hap, fortune to meet with a monster'

It	BE	Possessive determiner + CHANCE	<i>To</i> -infinitive
	Possessive determiner + CHANCE	BE	<i>To-</i> infinitive

- →// complement-taking predicate 'happen to': Possessor *HAPPEN TO* + Inf 'Positive achievement CTP' in Noonan's (2007) typology of CTPs
- → Also first meaning of epistemic adverbs like *maybe*, *perhaps*, *perchance* (López-Couso & Méndez-Naya 2017)

#### Early Modern English: 1570-1710 in CEMET

PPCEME	1570-1640	1640-1710	TOTAL
no complement	33	20	119
of-PP	0	1	9
to-inf	3	0	6
when-clause	0	1	1
TOTAL chance (noun)	36	22	135

#### In PPCEME:

- no examples of there BE chance
- 2 examples of HAVE chance, but without complement referring to situation

CEMET	1570-1640	1640-1710	TOTAL
Noun chance	161	90	251

Early Modern English: 1570-1710 in CEMET

matrices of clausal complement types	1570-1640	1640-1710
it BE (POSS DET) chance + to-inf	4	2
(POSS DET) chance BE + to-inf	1	1
HAVE (DET) chance + of V-ing	1	0
TOTAL	6 [/161]	3 [/90]

#### Patterns with to-inf: happenstance meaning

(17) I was very well pleased with the sight of a fine lady that I have often seen walk in Graye's Inn Walks, and it was my **chance** to meet her again at the door going out. (CEMET 1640-1710)

Early Modern English: 1570-1710 in CEMET

Pattern with HAVE (det) CHANCE of V-ing: emergence of modal meaning!

- (18) The right path is that by which he **has** the best **chance** <u>of adding</u> to the stock of knowledge in the world something worth labouring for (CEMET 1570-1640)
- → Best able to add sth? → dynamic modal meaning?
- → Most likely to add sth? → epistemic modal meaning?

Early Modern English: 1570-1710 in CEMET

Types of matrices (with our without complements referring to SoA), so far all showing

POSITIVE polarity

	CEMET1	CEMET2
it be (det) chance	5	3
(poss det) chance be	1	2
this be (det) chance	1	0
have (det) chance	2	0
there be chance (no compl)	0	2
take (det) chance	4	2
try (det) chance	0	2

(19) had heaven and nature added to that love all the perfections that adorn our sex, it had availed me nothing in your soul: **there is** a **chance** in love as well as life, and often the most unworthy are preferred (CEMET2)

Late Modern English: 1710-1920 in CLMETEV

	1710-1780	1780-1850	1850-1920
chance	202	776	1298
Chance_noun	174	665	5
	Exhaustive sample	250-hit random sample	250-hit random sample

#### New matrix types:

- Stand (DET) chance
- Give (DET) chance
- Lose (DET) chance
- Present (DET) chance

Late Modern English: 1710-1920 in CLMETEV

CLMETEV	1710-1780	1780-1850	1850-1920
that-clause	-	7	6
if-clause (it BE a chance + IF)	1	-	-
to-inf	2 (0 happenstance)	5 (2 happenstance)	12 +1 <i>for</i> -PP <i>to</i> -inf (0 happenstance)
of V-ing	13	77	3
for V-ing	6	2	1
in V-ing	1	-	2
of-PP (situation)	17	38	34
for-PP (situation)	5	4	2
No complement referring to situation	129	117	189
TOTAL	174	250	250

Late Modern English: 1710-1920 in CLMETEV: MODAL meanings

1710-1780: NEW PATTERN WITH TO-INF: modal meaning & negative polarity!

HAVE (det) CHANCE + to-INF

(& negative polarity in earliest attestations, CLMETEV1):

- (20) as they all spoke together, <u>no man had chance</u> to be heard (CLMETEV 1710-1780)
- (21) My poor aunt, without any regard to her years and imperfections, has gone to market with her charms in every place where she thought she had <a href="the least\_chance">the least\_chance</a> to dispose of her person (CLMETEV 1710-1780)
- (22) what specialties of treason, stratagem, aimed or aimless endeavour towards mischief, no party living [...] has now any chance to know. Camille's conjecture is the likeliest [...] (CLMETEV 1780-1850)

Late Modern English: 1710-1920 in CLMETEV: MODAL meanings

1780-1850: NEW TYPE OF COMPLEMENT: that-clause  $\rightarrow$  epistemic meaning

THE CHANCES ARE + that-clause

THE CHANCE IS + that-clause

THERE BE (DET) CHANCE + that-clause

- (23) Whether it was originally intended for the purpose to which it is at present applied, I have no opportunity of knowing. The chances, however, are, that it was not (CLMETEV 1780-1850)
- (24) "I have just received your letter, and am truly sorry that any difference should arise between your captain, [...], and yourself, [...], and a very young officer, who must naturally have much to learn; therefore the **chance** is that you are perfectly wrong in the disagreement. (CLMETEV 1780-1850)
- (25) "I fear, then," cried Cecilia, not very angry at this speech, "there is but little chance your ladyship should like either of us." (CLMETEV 1780-1850)

#### 4. Conclusions

- Verbo-nominal patterns with chance(s) 'enrich' the "greater modal system"
  - Onomasiologically: new patterns that:
    - are functionally equivalent to modal auxiliaries
    - exceed the functional range of modal auxiliaries: display 'caused modal' meanings
  - Show layering (Hopper & Traugott 1993) of lexical, grammatical and 'caused' modal uses
- Diachronic data:
  - modal VNPs, caused modal and lexicalized meaning: first structures with implied complement (inferable from preceding discourse) or no complement
  - First VPN: happenstance meaning: It BE POSS\_DET CHANCE + to-inf
     → 'POSS happens to V' [OED 1549]
  - Later development: epistemic-dynamic > epistemic
    - HAVE (det) CHANCE + of V-ing [CEMET 1570-1640]
    - 2) HAVE (det) CHANCE + to-inf [negative polarity, possibly to maximally distinguish from earlier happenstance VPN with to-inf complement] [CLMETEV 1710-1780]
    - 3) CHANCE(S) BE/THERE BE CHANCE + that-clause [CLMETEV 1780-1850]: purely epistemic
- Role of polarity: still to be confirmed, but negative polarity does not predominate in PDE

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