

Term 2/2022

Department of English

Faculty of Humanities and Social Sciences







product N

produce

productive Adj

productivity

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The productivity of a word formation:

The degree of cognitive ease with which speakers can produce or process new complex words on the basis of that process.

The productivity of a word formation:

(Simple English version)

The ease with which people can make or understand new difficult words based on their thinking ability.

X-ness (goodness, sweetness)

X-ly (quietly, softly)

X-some (wholesome, cumbersome)

X-al (withdrawal, rebuttal)

The affix is productive if:

- It occurs with many bases.
- It can be easily used with new bases to form new words.
- It has few restrictions that would prevent coinages with new bases.

Consider the following suffixes:

```
-ness (greyness, happiness)
-ity (sensitivity, purity)
-th (depth, length)
```

Which one is most productive?

- **Some affixes can be more or less productive.**
- ❖ Some affixes are highly productive, e.g. -er, -ness, -able, -ly, un-
- Other affixes are nearly unproductive so it is almost impossible to form new coinages.

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ADJ + th

N + dom

V + ment

ADJ + en

Other affixes are nearly unproductive, so it is almost impossible to form new coinages.

ADJ + th warm > warmth

N + dom king > kingdom

V + ment judge > judgment

ADJ + en black > blacken

Other affixes are nearly unproductive, so it is almost impossible to form new coinages.

ADJ + th green > *greenth

N + dom worm > *wormdom

V + ment email > *emailment

ADJ + en green > *greenen



- How can you tell that one affix is more productive than the other?
- Check on the extensive text collection, i.e., corpus
 - 1) How many formations with a certain suffix are there?
 - 2) How many of these occur only once: hapax legomena?



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-able derivatives: BNC frequency and listedness in Webster's Third

-able derivative	token frequency	listed in Webster's Third		
absorbable	1	yes		
abusable	1	no		
accruable	1	no		
acid-extractable	1	no		
actable	1	yes		
actualizable	1	yes		
abstractable	2	no		
admissable	2	no		
addressable	12	no		
adorable	66	yes		
abominable	84	yes		
actionable	87	yes		
affable	111	yes		
achievable	176	yes		
adaptable	230	yes		
adjustable	369	yes		
admirable	468	yes		
advisable	516	yes		
accountable	611	yes		
acceptable	3416	yes		

TYPE	N	TYPE	N	TYPE	N
WIDEN	316	FLATTEN	90	BLACKEN	28
WEAKEN	315	FASTEN	89	SMARTEN	24
TIGHTEN	299	DAMPEN	87	LIKEN	22
SOFTEN	285	STIFFEN	75	MOISTEN	19
BROADEN	261	RIPEN	69	CHEAPEN	13
LESSEN	209	AWAKEN	68	REDDEN	11
LOOSEN	159	QUICKEN	63	DEAFEN	9
SHORTEN	142	THICKEN	60	GLADDEN	8
SHARPEN	132	QUIETEN	58	SADDEN	7
HARDEN	132	DARKEN	56	STEEPEN	6
STRAIGHTE	N 131	FATTEN	49	NEATEN	6
LIGHTEN	128	SWEETEN	43	WHITEN	5
DEEPEN	120	SLACKEN	38	MADDEN	1
WORSEN	106	TOUGHEN	35		
DDICHTEN	106	EDECHEN	24		

In the BNC, ADJ + en has a type frequency of 44.

There is one hapax legomenon.

REALLY	46440	EXACTLY	10306	SLOWLY	7405
PROBABLY	26528	26528 IMMEDIATELY		LARGELY	7271
ACTUALLY	25441	EASILY	9637	POSSIBLY	7045
PARTICULARLY	21683	HIGHLY	9006	CURRENTLY	7026
USUALLY	18864	EVENTUALLY	8860	MAINLY	7011
CERTAINLY	18114	FULLY	8794	CAREFULLY	6816
SIMPLY	17283	DIRECTLY	8607	PREVIOUSLY	6797
CLEARLY	15010	SLIGHTLY	8597	ENTIRELY	6739
FINALLY	12581	HARDLY	8415	EXTREMELY	6688
RECENTLY	12176	COMPLETELY	8339	FAIRLY	6582
QUICKLY	11839	NORMALLY	8133	INCREASINGLY	6565
GENERALLY	11457	RELATIVELY	7814	EQUALLY	6465
NEARLY	11176	APPARENTLY	7600	SURELY	6032
SUDDENLY	11014	MERELY	7423	FREQUENTLY	5711
OBVIOUSLY	10662	EARLY	7420	TOTALLY	5693

By contrast, ADJ + *ly* has a type frequency that is in the thousands, with many hapaxes.



- 1. Pragmatic restrictions
- 2. Structural restrictions
- 3. Lexical restrictions
- 4. Semantic restrictions

1. Pragmatic restrictions

The formation does not make any sense!

- You cannot * unmurder someone.
- The *onliest book I've ever read.
- I * disgrow broccoli in my garden.

2. Structural restrictions

The affix only works with bases of a certain structure.

```
arrive > arrival
betray > betrayal
deny > denial
```

```
answer > *answeral
state > *stateal
```

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Rule: The base has to be bisyllabic with final stress.

2. Structural restrictions

```
black > blacken
less > lessen
wide > widen
```

```
high > *highen
low > *lowen
fine > *finen
```

Rule: The base has to be monosyllabic

2. Structural restrictions

```
black > blacken
less > lessen
wide > widen
```

```
valid > *validen
hiralious > *hiraliousen
expensive > *expensiven
```

Rule: The base has to be monosyllabic with final obstruents.

3. Lexical restrictions

The formation means something for which there already is a very frequent word.

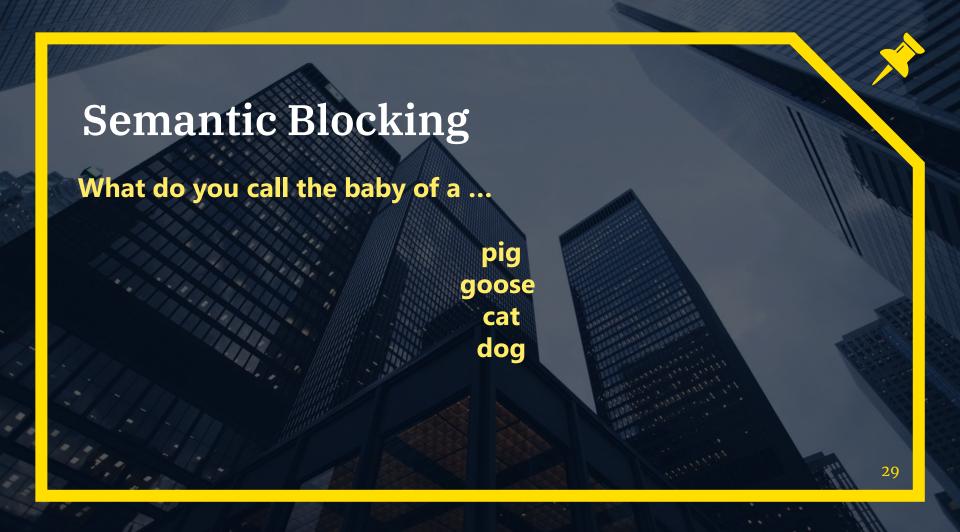
```
steal + er > *stealer
good + est > *goodest
see + able > *seeable
```

3. Lexical restrictions

The formation means something for which there already is a very frequent word.

thief best visible

This is called BLOCKING.





What do you call the baby of a ...

pig goose cat dog

Can you say catlet, doglet? Why not?



Species		horse	pig	cow	sheep	goose
Adult	Male					6 1 1
400	Female					
Young	1					

Semantic Blocking

Species		horse	pig	cow	sheep	goose
Adult	Male	stallion	boar	bull	ram	gander
	Female	mare	SOW	cow	ewe	goose
Young		foal	piglet	calf	lamb	gosling

4. Semantic restrictions

The affix only works with bases of a certain semantic kind.

```
employ + ee > employee eat > *eatee
train + ee > trainee peel > *peelee
interview + ee > interviewee
```

Rule: The formation has to refer to a sentient human being.







