



1. The Problem

• The acceptability conditions of NPIs (ex. *any*) and PPIs (ex. *some*) don't seem to be the mirror images of each other. **No complementarity**:

- (1) It's **impossible** that he stole anything.
- (2) It's **impossible** that he stole something. ✓IMP.>SOME

• *Some* doesn't even seem to be anti-licensed by certain licensers of *any* (consensus so far: only Anti-Additive expressions are anti-licensers of *some*):

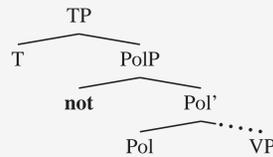
- (3) **At most five people** stole something. ✓AT_MOST_5>SOME
- (4) **No one** stole something. *NO_ONE>SOME

Q1: Is unification possible?

I answer 'yes'.

2. Flip-flop Exists

• Assumption: Each clause, positive or negative, has a Pol head. Negation sits in Spec,PolP.



• The French NPI *quoi que ce soit* can be anti-licensed by an even number of DE expressions, similarly for *any* in English dialect A ((6) ok in dialect B) and *yet* in all English dialects:

- (5) Il est **impossible** qu' il ait volé quoi que ce soit. it is impossible that he has stolen what that this be
- (6) *Il n'est **pas impossible** qu'il ait volé quoi que ce soit.
- (7) **Non** qu'il soit **imposs.** qu'il ait volé quoi que ce soit.

NPIs licensed in syntactic domains, not by operators.

• **Domain of π :** A constituent upon which the acceptability of π can be checked. Not all constituents are eligible: e.g. in each clause *C*, the PolP of *C* is the **minimal** domain of *quoi que ce soit*, i.e. the smallest constituent eligible for the checking of its acceptability (minimal domains are PI specific).

- (5) [TP [PolP π_1] impossible [CP [PolP π_1] [qqcs]₁]
- (6) * [TP [PolP π_1] pas impossible [CP [PolP π_1] [qqcs]₁]
- (7) [TP [PolP π_1] non [CP [PolP π_1] imp. [CP [PolP π_1] [qqcs]₁]

• An NPI π^- is licensed in a sentence *S* only if π^- is in a constituent *A* of *S* such that *A* is DE w.r.t. the position of π^- .

• A constituent *A* is DE w.r.t. the position of α ($[[\alpha] \in D_\sigma]$) iff the function $\lambda x. [A[\alpha/v_\sigma]]^{g[v_\sigma \rightarrow x]}$ is DE. Gajewski 2005

Q2: Is the licensing of *any* environment-based in English dialect B?
Yes, cf. section 5.

3. Flip-flop with PPIs

• What others (Szabolcsi (2004) a.o.) call 'rescuing' is nothing but flip-flop with PPIs. PolP is also the minimal domain of *some*.

- (8) He did **n't** steal something. *NOT>SOME

* [TP [PolP π_1] not something₁]

- (9) It's **imposs.** that he did **n't** steal something. ✓IMP.>SOME

[TP [PolP π_1] impossible [CP [PolP π_1] not something₁]

- (10) It's **not imp.** that he did **n't** steal something. *NOT>SOME

* [TP [PolP π_1] not impossible [CP [PolP π_1] not something₁]

5. Entanglement & Cyclicity

- (11) It's **impossible** that someone stole something. IMP.>SOME
- (12) It's **impossible** that anyone stole anything.

• *Some* and *any* are **entangled**: we witness a **polarity clash**, which shows that the acceptability of a PI in a given constituent *A* depends on the licensing of all other PIs in *A*.

- (13) It's **imposs.** that someone stole anything. *IMP.>SOME

⇒ The licensing of *any* is **environment-based in English_B**, but the minimal domain of *any* is smaller than PolP. (Answ. to Q2)

• **Licensing is cyclic**: the PPI in (14) is licensed at a previous stage of a **cycle**. Cyclicity visible with NPIs as well (15).

- (14) It's **imposs.** that anyone stole something. ✓IMP.>SOME

- (15) It's **impossible** that anyone did **n't** steal anything.

• **Licensing of PIs:** A PI π is licensed in a sentence *S* only if π is contained in at least one eligible constituent *A* of *S* which has the right monotonicity w.r.t. the position of π , and all other PIs in *A* are licensed **within** *A*.

• Entanglement with 2 PPIs: –First, observe that a subject PPI can (only) reconstruct under a clausemate negation if it gets rescued. Two readings are possible (*Someone/Everyone is hiding*) in (16), depending on the position where the subject is interpreted.

- (16) It's **impossible** that someone isn't hiding.

–Let's add a PPI (*somewhere*) which needs rescuing: the subject PPI can no longer outscope the lower negation.

- (17) —A: Someone is hiding.
- B: That's exactly true, it's **impossible** that someone isn't hiding somewhere.

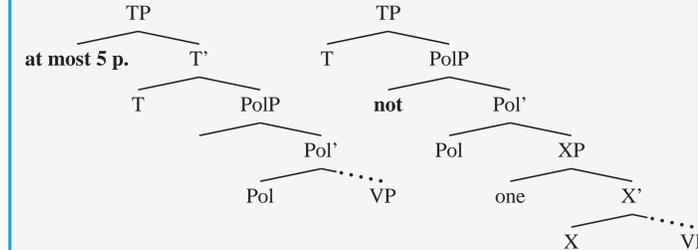
- (18) —A: Everyone is hiding.
- B: #That's exactly true, it's **impossible** that someone isn't hiding somewhere.
- B': That's exactly true, it's **impossible** that anyone isn't hiding somewhere.

• Similar facts already observed with the PPIs *already* and *still* (Baker 1970, Ladusaw 1979, McCawley 1998):

- (19) a. You **can't** convince me that someone hasn't already solved this problem. *NOT>SOME>NOT; NOT>NOT>SOME
- b. You **can't** convince me that someone hasn't solved this problem. NOT>SOME>NOT; NOT>NOT>SOME

4. A Confound

• Negativity is not the only difference between (3) and (4): the DE expressions are not in the same position. Negative quantifiers are made up of negation and an existential quantifier (Geurts 1996, Zeijlstra & Penka 2005, Iatridou & Sichel 2008, a.o.).



Q3: *Some* anti-licensed in DE environments?

6. Licensing is Liberal

• *Some* and *any* licensed in different constituents in (20)-(21):

- (20) It's **impossible** that he didn't steal anything.

[TP [PolP π_1] impossible [CP [PolP π_1] not anything₁]

- (21) It's **impossible** that he didn't steal something.

[TP [PolP π_1] impossible [CP [PolP π_1] not something₁]

7. Complementarity

• With **entanglement**, we have a test: *some* is anti-licensed by **DEness**, not by non-monotonicity (unlike *any*): (Answ. Q3)

- (22) **At most five people** sold someone anything. *n.s.SOME
- (23) **No one** sold exactly 42 people *anything/something.

• The monotonicity properties that make *some* acceptable are the complement of the monotonicity properties that make *any* acceptable and vice versa.

• **In any given constituent** where acceptability is checked, *some* and *any* are in **complementary distribution**.

8. *Some* is not an Intervener

• Double object constructions with *any* and *some* in PolP:

- (24) **At most five people** sold someone anything. *n.s.SOME

* [TP [PolP π_1] at most 5 p. [PolP π_1] someone₂ anything₁ sell

- (25) **At most five people** sold anyone something. *n.s.SOME

* [TP [PolP π_1] at most 5 p. [PolP π_1] anyone₂ something₁ sell

• Other PPIs entangled with *any*:

- (26) There isn't anyone here who wouldn't rather do *anything/something downtown. [Baker 1970] ✓NOT>NOT>SOME

• An inference can salvage a PPI by breaking the monotonicity in its position (against 'double licensing', Szabolcsi 2004):

- (27) Make sure that he didn't steal something. ✓NOT>SOME
- ↪ It is possible that he stole something.

9. Conclusion

- **Unified environment-based theory;**
- *Some* and *any* are entangled;
- Licensing is cyclic.

Selected References

Baker, C. L. (1970). Double negatives. *LI* 1:169-186. • Gajewski, J. (2005). Neg-raising: Polarity and presupposition. • Ladusaw, W. (1979). Polarity sensitivity as inherent scope relations. • Szabolcsi, A. (2004). Positive polarity - negative polarity. *NLLT* 22:409-452.