

*Exactly who but not *the person exactly who:* focus modifiers and the foregrounding constraint

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Abstract

Most adverbs never modify NPs and most NPs are never modified by adverbs. It's curious, then, that the adverbs *exactly*, *precisely*, *just*, and *only* can modify a few types of NPs including interrogatives (*exactly who*, *precisely what*) but not relative NPs (**the person exactly who called*). I propose functional explanations for these restrictions. The pairing of precision modifiers with certain NPs reflects a semantic constraint, while the exclusion of relative constructions reflects a pragmatic one.

Keywords: focusing adverbs, precision modifiers, interrogatives, relatives, foregrounding, backgrounding, information structure

1 The puzzle

Exactly who called? works, but **the person exactly who called...* doesn't. Why is the first grammatical and the second not?

Huddleston and Pullum (2002, p. 437) (CGEL) notes that adverbs like *exactly* and *precisely* can function as peripheral pre-head modifiers of NPs, as in *precisely nothing*: [NP [AdvP:Mod *precisely*] [NP:Head *nothing*]] . This analysis extends naturally to interrogative NPs: *precisely who*, *exactly what*, *just which*. But the distribution is not as free as this initial parallel might suggest.

- (1) a. *Exactly the cats you mentioned were playing.*
b. **Exactly the cats were playing.*

A fuller picture emerges from the following paradigm:

- (2) a. [*Exactly who*] called? (open interrogative, pre-head)

- b. [Who exactly] called? (open interrogative, post-head)
- c. I know [exactly what you did]. (subordinate interrogative)
- d. * The person [exactly who called] left a message. (integrated relative)

The following paradigm confirms that fused relatives pattern with integrated relatives, not with interrogatives:

- (3) a. The thing she built collapsed.
- b. ? Precisely the thing she built collapsed.
- c. What she built collapsed. (fused relative)
- d. * Precisely what she built collapsed. (fused relative + modifier)

and the modifier *else* shows the same pattern:

- (4) a. [Who else] called?
- b. * The person [who else called] left a message.

The contrast is striking. Interrogatives license these modifiers; relative constructions – fused or otherwise – don’t. *CGEL* notes that interrogatives license special modifiers – post-head *else*, pre- or post-head *exactly/precisely*, and stacked *just exactly/precisely* (Huddleston & Pullum, 2002, pp. 592, 915–918) – but doesn’t explain why this class exists or why relative constructions are excluded. (Distinguishing fused relatives from subordinate interrogatives is notoriously difficult; examples like (2c) may appear to involve fused relatives but are in fact subordinate interrogatives. The test in (3d), using a predicate that forces a referential reading, confirms that fused relatives pattern with other relatives, not with interrogatives.¹)

2 The syntactic description

In constructions like *exactly who* and *precisely nothing*, *CGEL* treats *exactly* and *precisely* as peripheral modifiers – external modifiers at the NP periphery, before any predeterminer modifiers. This position isn’t open to adverbs generally; it’s restricted to a small set of lexemes – focusing adverbs like *exactly*, *precisely*, *just*, and *only* – occurring with superlatives (*only the best answer*), adjectives like *right* and *wrong* (*exactly the right answer*), demonstratives (*exactly that*), and interrogatives (*exactly which one*) (Huddleston & Pullum, 2002, p. 437).

¹ Attempts to coerce a fused-relative reading with extensional predicates, anaphora, and contrastive context do not rescue *precisely* or *just exactly*. Apparent acceptability with *only* reflects a focus-particle parse with wide scope over the predicate (roughly ‘only the thing(s) that ...’), not the NP-peripheral precision-modifier configuration at issue here.

The structure for *precisely who* parallels that for *precisely nothing* – both have the focusing adverb as a peripheral modifier of the NP:

- (5) [NP [AdvP:Mod *precisely*] [NP:Head *who*]]

The same analysis applies to other determinative heads in fused constructions

- (6) [NP [AdvP:Mod *exactly*] [NP:Head *that*]]

and to fronted relative PPs:

- (7) a. [In *exactly which case*] would this apply? (interrogative)
b. *Perhaps it exists*, [in *which case*] I'd try it. (relative)
c. **Perhaps it exists*, [in *exactly which case*] I'd try it. (relative)

The syntactic picture is clear: focusing adverbs can head AdvPs in peripheral modifier function in NPs with certain kinds of heads. What remains unexplained is why this set includes interrogatives but excludes all relative constructions.

3 A two-layer functional explanation

The answer, I suggest, involves two layers: semantics and information structure.

Interrogatives denote sets of alternatives (Hamblin, 1973). *Who called?* asks the addressee to identify the true answer(s) from an alternative set. *Exactly* and *precisely* signal exhaustive identification – the answer has to pick out the complete set, with no hedging (Theiler et al., 2018).

This semantic operation requires alternatives to operate over. Ordinary nouns like *cats* don't denote alternative sets in the same way; **precisely cats* is deviant because there's nothing to precisify.² But *nothing*, *who*, and fused-relative *what* all range over alternatives – exactly what precision modifiers need.

The second layer is pragmatic. Work on island constraints offers an answer. Following Goldberg (2006) and supported by the empirical results in Cuneo and Goldberg (2023), the BACKGROUNDED CONSTITUENT INFELICITY (BCI)³ principle holds that foregrounding and backgrounding the same constituent is infelicitous. Long-distance dependencies foreground the fronted phrase; island constructions background it – hence the clash.

²Constructions like *exactly three cats* or *precisely those cats* involve modification at the DP level (targeting the numeral or demonstrative), not the NP-peripheral position discussed here.

³The standard label in Goldberg's formulation is BACKGROUNDED CONSTRUCTIONS ARE ISLANDS (BCI).

Focusing modifiers foreground the interrogative word; relative constructions background it – hence the same clash. In *the person who called*, the relative clause is backgrounded. Adding *exactly* attempts to foreground *who* – but *who* is embedded in backgrounded content. The result is a clash. The same logic applies to fused relatives: in **precisely what she built collapsed*, the relative word is still backgrounded, so the foregrounding modifier is blocked.

As for *else*, it foregrounds via contrast rather than exhaustivity, invoking alternatives already excluded. But the pragmatic effect is the same: foregrounding clashes with backgrounded relative content. This unifies the class.

4 Conclusion

The distribution of *exactly*, *precisely*, *just*, and *only* with interrogatives reveals a consistent asymmetry: interrogatives license these modifiers; all relative constructions – fused and integrated alike – do not. Syntax identifies where the modifier attaches. Semantics explains why alternatives license it. Pragmatics explains why backgrounding blocks it.

This last point connects to broader work on island constraints. If precision modifiers are foregrounding devices, their incompatibility with relative constructions follows from the same mechanism that makes backgrounded constituents resist extraction. The BCI principle, developed for long-distance dependencies, generalises to focus modification.

Several questions remain open. Why does the stacking *just exactly/precisely* work but not **exactly just*? Do cross-linguistic parallels (German *genau wer, ausgerechnet*) show the same distributional constraints? Why do exclamatives resist these modifiers (**Exactly what a disaster!*) – is it because they denote extreme degree rather than alternatives requiring identification? Finally, are the judgments truly categorical or gradient? If heavy contrastive stress on *exactly* ameliorates degraded relatives, that would support a pragmatic rather than syntactic account.

But the core observation holds. *Exactly who* works because identity is at stake. *The person exactly who* fails because backgrounded content resists foregrounding.

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