The Union of Conjunction and Disjunction: The Case of AND/OR

Introduction

AND/OR is a complex coordinator that shows properties of both *and* and *or*. Well-attested in formal domains, including law, medicine, and linguistics.

- (1) Video and/or sound recordings obtained by police personnel [...] shall be made available for **hearing and/or viewing** by defense counsel. (Washington State Code; RCW 9.73.090b)
- (2) Brachydactyly and/or clinodactyly was a consistent feature in the hands and/or feet.¹
- (3) ... researchers who have defined grammaticality and/or acceptability in other ways might make a principled distinction between two types of judgment (Schütze 1996:26)
- (4) It is standard to find that object extraction is more liberal than **subject and/or adjunct** extraction (Phillips 2013:94)
- But it is also found in entertainment, casual speech, published works.
- (5) So, who wants to touch and/or be touched by a famous person? (Bob's Burgers, 2x9)
- (6) There's nowhere I won't go. As long as it's horribly, horribly **true** and/or wrong. (Louis CK)
- (7) Give your figures and tables **titles and/or captions**.... You can also use **indentation**, **bold or italic font**, **outlining or borders, symbols, and/or bullets** to highlight important information. (LSA Poster guidelines: 6 total instances of and/or!)

Research questions

- What are the distinguishing properties of *and/or*?
- What is the meaning of *and/or*?
- What is the distribution of *and/or*?
- Does the syntactic behavior of *and/or* differ in any way from either *and* or *or*?

Properties

- *and/or* is an established coordinator in English that shows systematic, regular, robust, and intentional use. It is not ad-hoc or a speaker error.
- As shown above, and/or is attested in formal, informal, published, and spontaneous domains
- </> does not connect most other functional categories *a/the dolphin , *I know that/if John arrived.
- There are no other "slashed coordinators" (*and/but, or/but...*). The vanishingly rare exceptions are idiosyncratic
 - (8) The challenge must be seen not as "either/or" but as "**and/and**." (AfricaArts journal; only found here)
 - (9) ... when using encoding **or/and** decoding variables to predict ending performance (Weiser 2012; only here)
- *and/or* is an addition to the closed functional category '&' • '&' is not so exclusive a category: *and/or, slash* (Woo, Ms.)
 - *let alone, as well as* (Hulsey 2008)
 - Which is contrary to this: "[The category] '&' may constitute *the most exclusive of all categories*... only the socalled coordinating conjunctions (e.g. and, or, but) may head an &P" (Zoerner 1995)
- Prosody suggests *and/or* is not a repair. Compare with this: (10) You're a TA, or— AND you're a student.
- Usually (only) this "slashed coordinator" is in other languages (see Table)

English

- Czech French Spanish Italy Russian
- Finnish
- Serbo-Croatian
- Hebrew



²"or/and" - unexpected, yet attested example in Spanish "...las que tienen tres hijos y padre o/y madre discapacitado puedan ser considerados como categoría especial

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Any context where one of *and* or *or* is ungrammatical, *and/or* is ungrammatical.

One exception: We expect a ban on *and/or w*ith correlative constructions (*both..and, either...or*) (19) I am going to pick up both John { and | *or | *and/or } Mary. Correlative 'both...and' (20) I am going to pick up either John { *and | or | *and/or } Mary. *Correlative 'either...or'* But there are examples in COCA that show that *and/or* can co-occur with *both*:

(21) Laity as well as priests can be **both** scholars **and/or** prophets. (22) more than half of the European adventives are **both** predaceous **and/or** phytophagous These anomalous cases are analyzed as repair — the meaning is "*both...and* plus the disjunctive meaning of or", which is added on as an afterthought. This predicts **either… and/or*, since *"either…and"* is never a coherent

 \rightarrow No **either...and/or* patterns were found in COCA. The prediction is borne out.

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Syntactic Behavior

	Collective predicates
ne song.	Internal relational modifiers
es / each other.	Anaphors
sad, respectively.	'Respectively'
	Contradiction

Gapping + Negation

And/or permits gapping, like other coordinators.		
(24) Tom drank a beer and Mary a martini.		
(25) Tom drank a beer or Mary a martini.		
(26) Tom drank a beer and/or Mary a martini.		
And and or behave differently when the scopal operator, auxiliary,		
and main verb are gapped. (Johnson 2000, Lin 2002, Repp 2009, for		
but see Toosarvandani 2015)		
conjunction is ambiguous; has wide and distributive readings (27)		
disjunction is <u>not</u> ambiguous; it has only the wide reading (28)		
(27) Ward can't eat caviar and Anna beans. (Siegel 1987:53)		
Wide. It's not possible for Ward to eat caviar and Anna eat beans. \neg (eWC & eAB)		
Dist. Ward can't eat caviar and Anna can't eat beans.		
¬eWC & ¬eAB		
(28) Ward can't eat caviar or Anna beans. (Oirsouw 1987:208)		
Wide. It's not possible for Ward to eat caviar or Anna eat beans.		
$\neg (eWC \lor eAB) = \neg eWC \& \neg eAB) \qquad [DeMorgan's]$		
Dist. *Ward can't eat caviar or Anna can't eat beans. *¬eWC ∨ ¬eAB		
and/or has a complex reading (20)		
and/or has a complex reading (29)		
(29) Ward can't eat caviar and/or Anna beans. Reading: Fither Ward cap't eat caviar or Appa cap't eat caviar (but I cap't		
Reading: Either Ward can't eat caviar or Anna can't eat caviar (but I can't remember which) Or both of them can't eat caviar		
remember which). Or both of them can't eat caviar.		
This should correspond to the wide scope reading, pending a precise		
enotation of <i>and/or</i> .		
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