

Children can't always read between the lines—sometimes it's better to be explicit

October 14 2020, by Lyn Tieu and Jacopo Romoli



Credit: AI-generated image ([disclaimer](#))

When we communicate, there is often just as much meaning in what we don't say as in what we say overtly.

For example, if I say "Sally colored the circle or the triangle," you will probably take this to mean she colored only one of them, *not both*, even

though I didn't say so explicitly.

In linguistics, we call this implied *not both* meaning a "[scalar implicature](#)."

Scalar implicatures have some interesting properties. In particular, they show up with certain positive sentences, but disappear when those sentences are made negative.

For example, "Sally colored the circle or the triangle" implies she colored only one and *not both*. Compare this to the negative version: "Sally didn't color the circle or the triangle." This usually means she failed to color *both* shapes.

Scalar implicature meanings seem to be difficult for [children](#) to get, [even as late as nine years of age](#). For example, [children don't seem to get the *not both* meaning](#) of the positive "or" [sentence](#).

Instead, for them, "Sally colored the circle or the triangle" can mean she colored [one or both shapes](#).

On the other hand, children don't have any issues understanding the negative versions of such sentences. When presented with the negative "or" sentence ("Sally didn't color the circle or the triangle"), [they get the *neither* interpretation](#), just like English-speaking adults do.

Other examples of hidden meaning

The *not both* meaning of "or" is just one example of a scalar implicature.

Linguists have recently studied sentences that contain [plural](#) nouns, like "circles." The sentence "Sally colored circles" usually means she colored *more than one* circle.

According to some theories, this *more than one* meaning is also a scalar implicature. That's because it shows up in positive sentences, and disappears when the sentences are negated.

The negative sentence, "Sally didn't color circles" means she didn't color any circles. It doesn't imply she colored one but *not more than one* circle.

One common way linguists study how children understand sentences is through a "truth value judgment task." Here, the experimenter presents the child with a scenario, and asks them to judge whether a particular sentence can describe that scenario.



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Whether the participant says "yes" or "no" tells us how they interpret the

sentence.

In our [latest experiments](#), we wanted to know how children interpret sentences with plural nouns. In two separate experiments, four- and five-year-old children listened to short stories told through cartoon images.

At the end of each story, a puppet, who had listened to the stories too, described what had happened in the cartoon.

For example, after seeing a little girl color one of two circles in her coloring book, the puppet might say: "I know what happened! Sally colored circles!"

Children would then be asked to judge whether the puppet was right. If they said "yes," this would tell us they found the sentence with the plural noun "circles" an acceptable description of what had happened in the story.

Because only one circle was colored, this would mean for these children, a plural could mean just *one* and not necessarily *more than one*.

This is what we observed. While adults rejected the use of positive plural sentences to describe singular contexts (they didn't think "Sally colored circles" meant she colored just one), children tended to agree with the puppet in these cases.

And we know the children weren't simply saying "yes" to anything the puppet said. When Sally colored one circle, children rejected the *negative* sentence "Sally didn't color circles," just like adults did.

In other words, as with "or," children interpret plurals like adults do in negative sentences, but not in positive ones.

Such data help us better understand how language works. In this case, similarities between plurals and other implicatures support the theory that [plural meanings are just another kind of scalar implicature](#).

Why it's better to be explicit

Adults communicate quite a bit of hidden meaning, expecting our conversational partners to read between the lines. But experiments like ours show conversational partners, particularly children, may not always interpret what we say the way we intend it.

In some [cases](#), it might be worth making explicit what we mean. As a parent, if it matters our child choose *only one* of two toys, it might be better to say explicitly: "Choose only one of these toys. Either the red or blue one, but not both."

Likewise, if we'd like them to read *more than one* book, we might want to say, "Let's read all three of these books" explicitly, rather than leaving the child to infer it.

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Citation: Children can't always read between the lines—sometimes it's better to be explicit (2020, October 14) retrieved 7 May 2024 from <https://medicalxpress.com/news/2020-10-children-linessometimes-explicit.html>

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