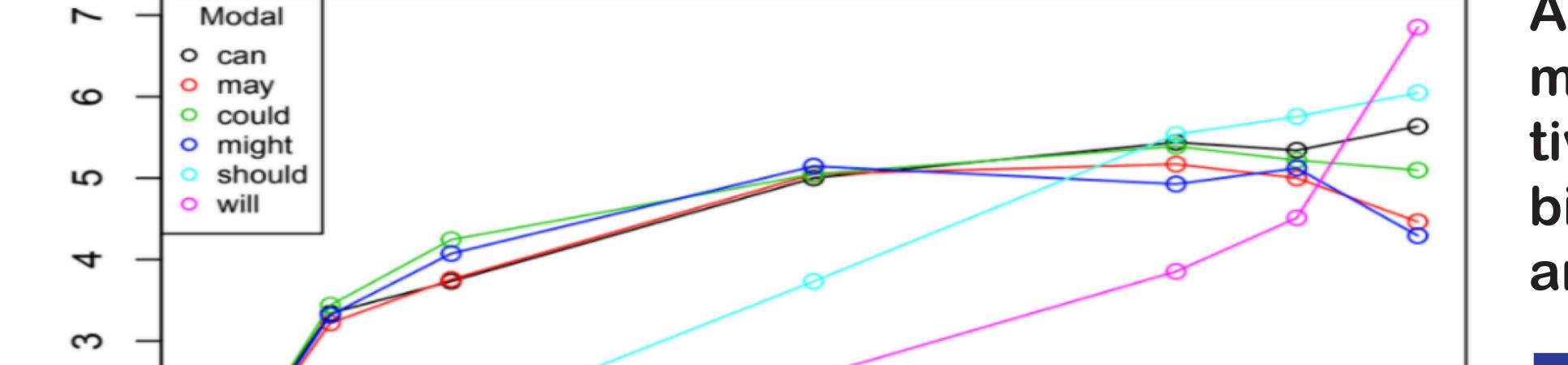
# MAPPING LANGUAGE TO REAL-WORLD EVENT **PROBABILITIES ACROSS MIDDLE CHILDHOOD**

We use modal expressions ("you might get COVID if...") to communicate probabilities

Older preschoolers understand that modal verbs can be ordered on a continuum...



Adults' judgments of modal use are sensitive to event probabilities in production and comprehension

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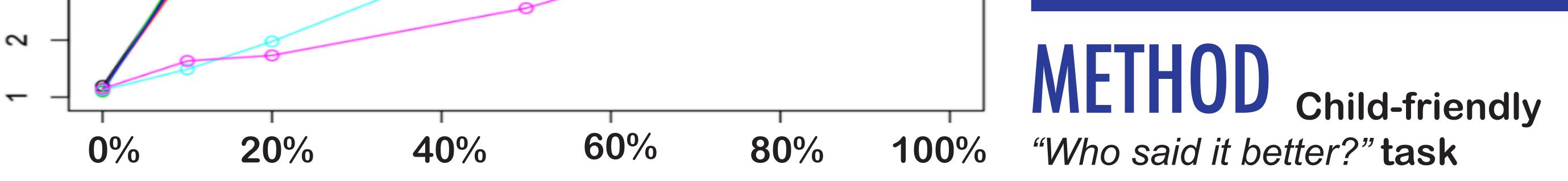
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•••• could ••••• should ••••• will ••••

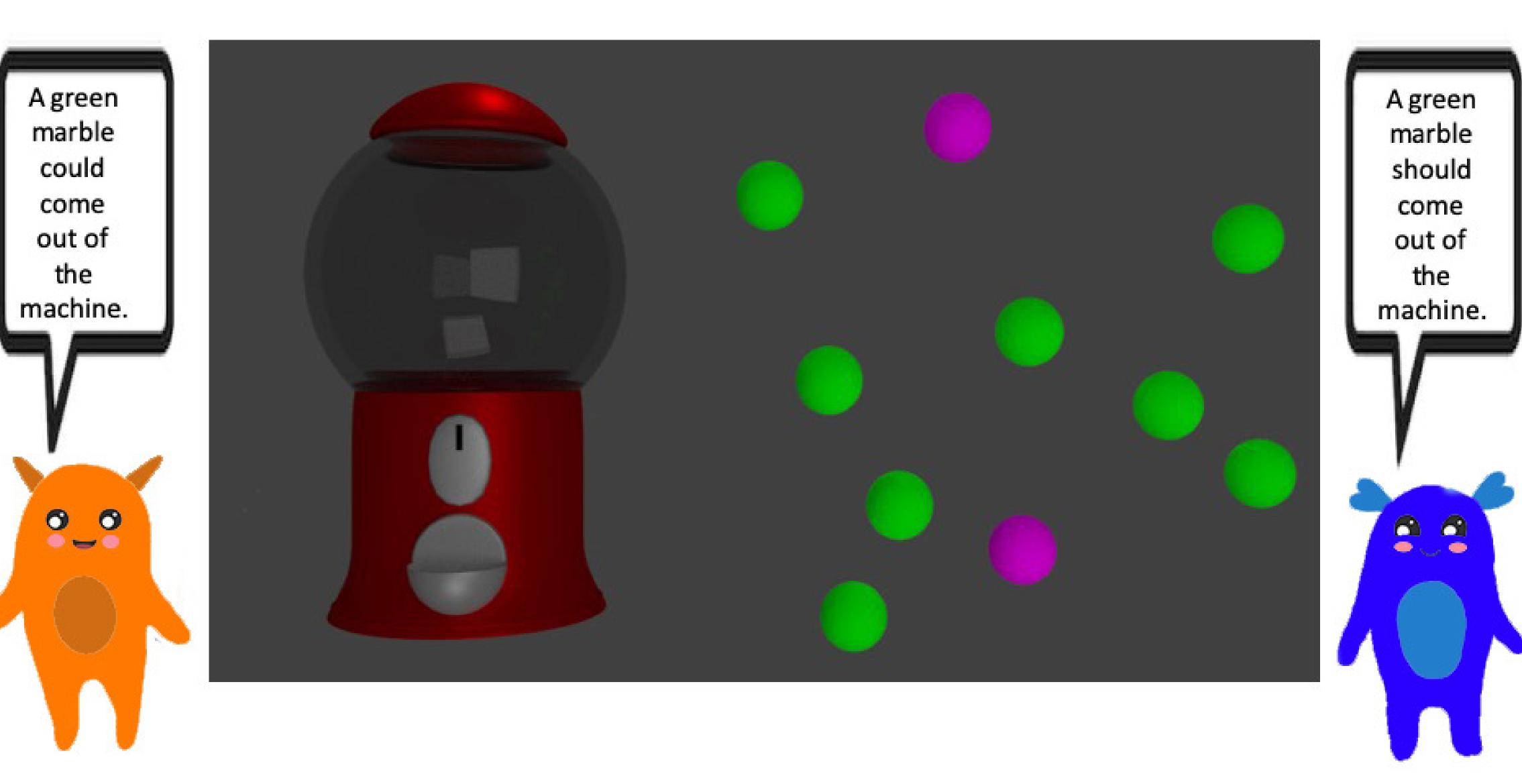
...but how do children understand how that scale relates to event probabilities?



## **FXPFRIMFNT** 1

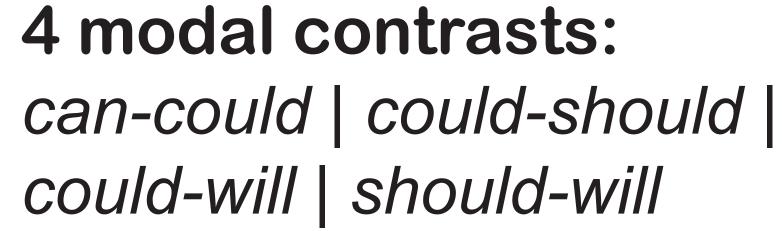
44 children (4--6 years; *M*=5.5 years, *SD*=.78) | 21 adults (M=20 years)

3 outcome probabilities: 20% | 80% | 100%



FXPFRIMENT 2 48 children (6--10.5 years; M=8.1 years, SD=1.3) 20 adults (*M*=21 years)

4 outcome probabilities: **0%** | 20% | 80% | 100%

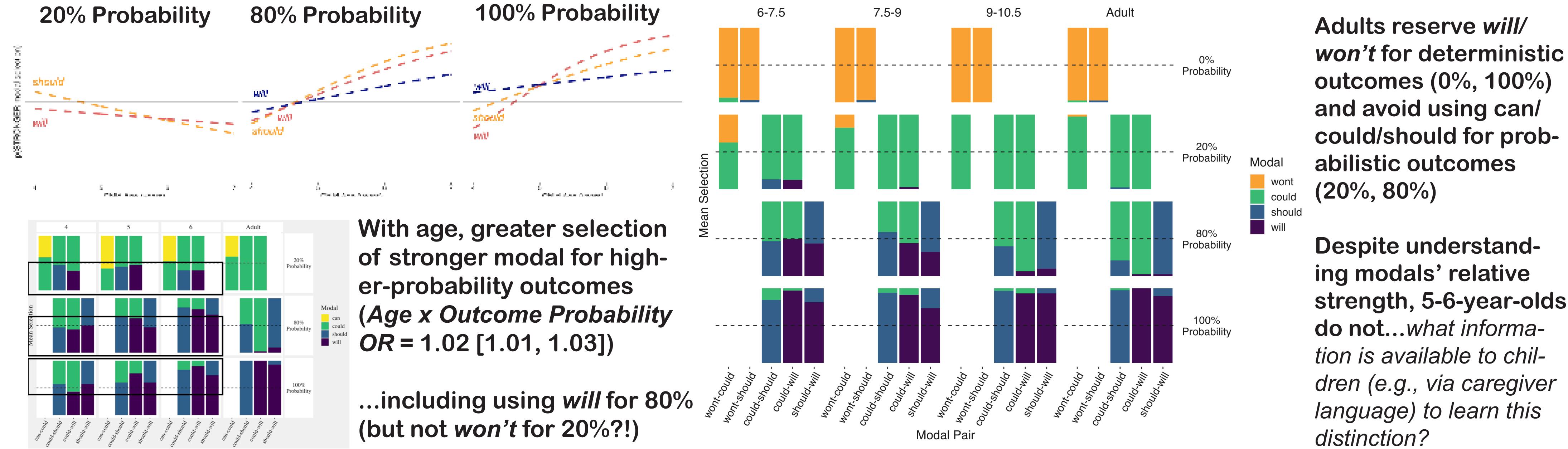


**32 randomized trials** 

### 5 modal contrasts:

won't-could | won't-should | couldshould | could-will | should-will

## 22 randomized trials



**Despite understand**ing modals' relative strength, 5-6-year-olds do not...what information is available to children (e.g., via caregiver language) to learn this distinction?

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REFERENCES: Hirst & Weil, 1982; Leahy & Zalnieriunas, 2021; Noveck, Ho, & Sera, 1996; Ozturk & Papafragou, 2015