Stingy, Greedy, or Bad Lannister? Selection for Specialized Cheater Detection Mechanisms in Humans

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Why exchange resources?

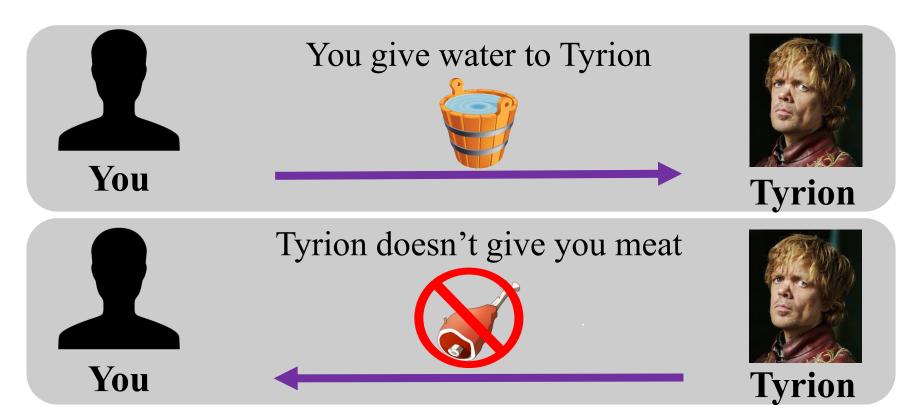
Division of Labor





What Makes Someone a Cheater?

Not paying a debt

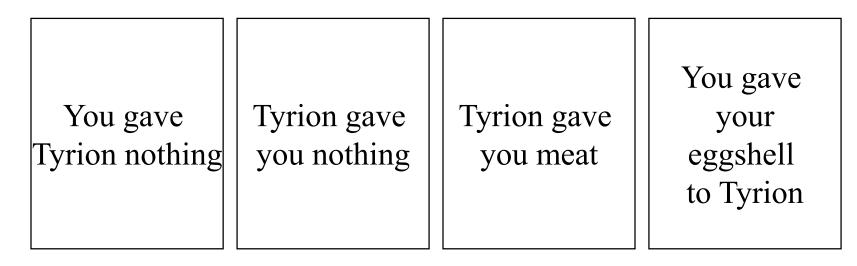


Debt not Paid (Bad Lannister) Wason Selection Task

(Cosmides & Tooby, 1992)

Rule: If someone gives you an eggshell, then you give them meat that same day. Each card represents one day.

Which cards must be turned over to determine whether Tyrion cheated on any of these four days?



Why exchange resources?

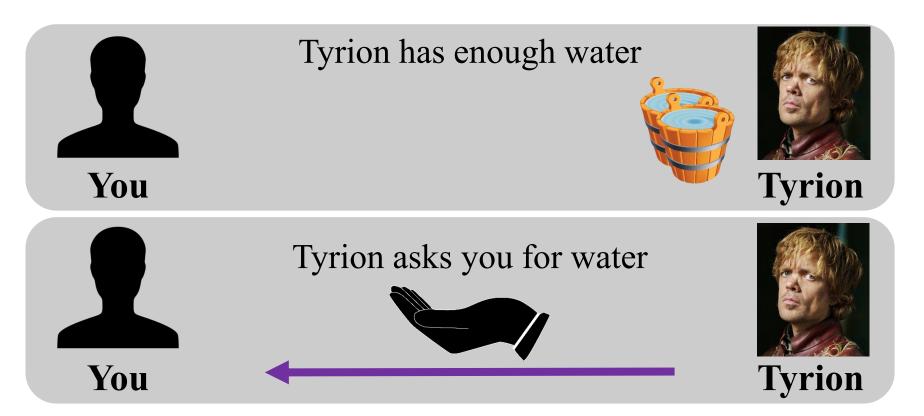
Insurance policy





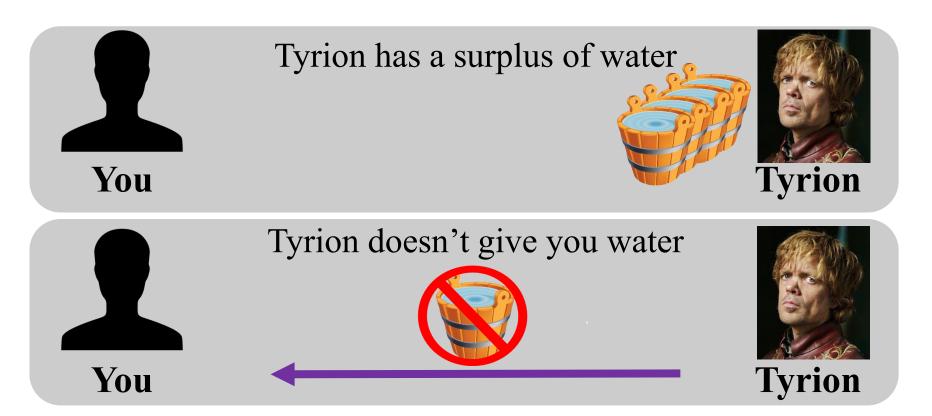
What Makes Someone a Cheater?

Being greedy



What Makes Someone a Cheater?

Being stingy

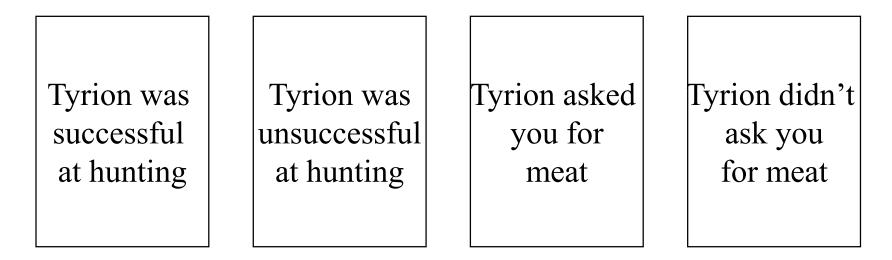


Greediness Wason Selection Task

Rule: If someone is successful at hunting on a particular day, then they don't ask for meat on that day.

Each card represents one day.

Which cards must be turned over to determine whether Tyrion cheated on any of these four days?



Stinginess Wason Selection Task

Rule: If someone is successful at hunting on a particular day, then they give some of their meat to someone who asks for meat on that day.

You are unsuccessful at hunting on four different days, so you ask Tyrion for some meat on each of these days.

Each card represents one day.

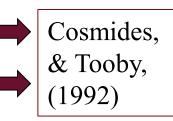
Which cards must be turned over to determine whether

Tyrion cheated on any of these four days?

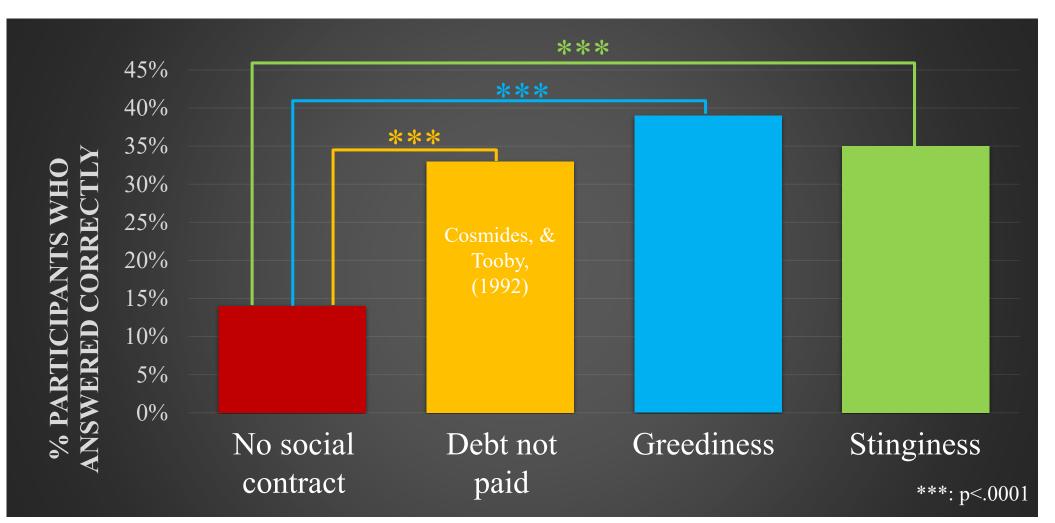
Tyrion was unsuccessful at hunting	Tyrion was successful at hunting	Tyrion gave you meat	Tyrion didn't give you meat
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Study 1

- Within-subjects study
 - US Mturk participants
- 4 Wason selection task rules:
 - No social contract –
 - Debt not paid
 - Greediness
 - Stinginess



% Strict Correct Responses (selecting both correct cards and no others)



Are Greediness and Stinginess Detection Unique to Western Society?



Ik, Uganda (Cathryn Townsend) Hunter-gatherers/sometimes also rely on farming Reputation for not helping each other



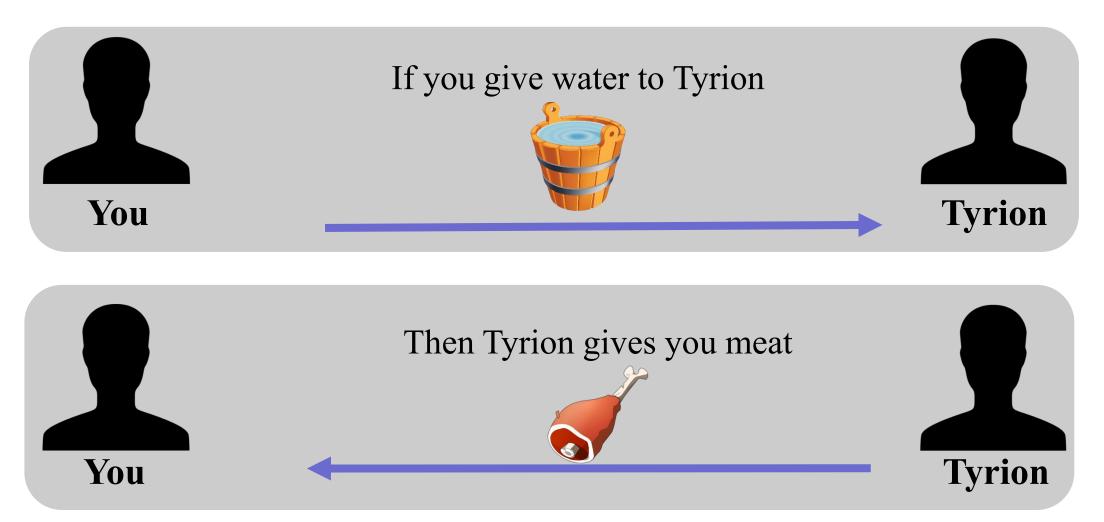
Hadza, Tanzania (Colette Berbesque) Hunter-gatherers

Pictorial Detection Task

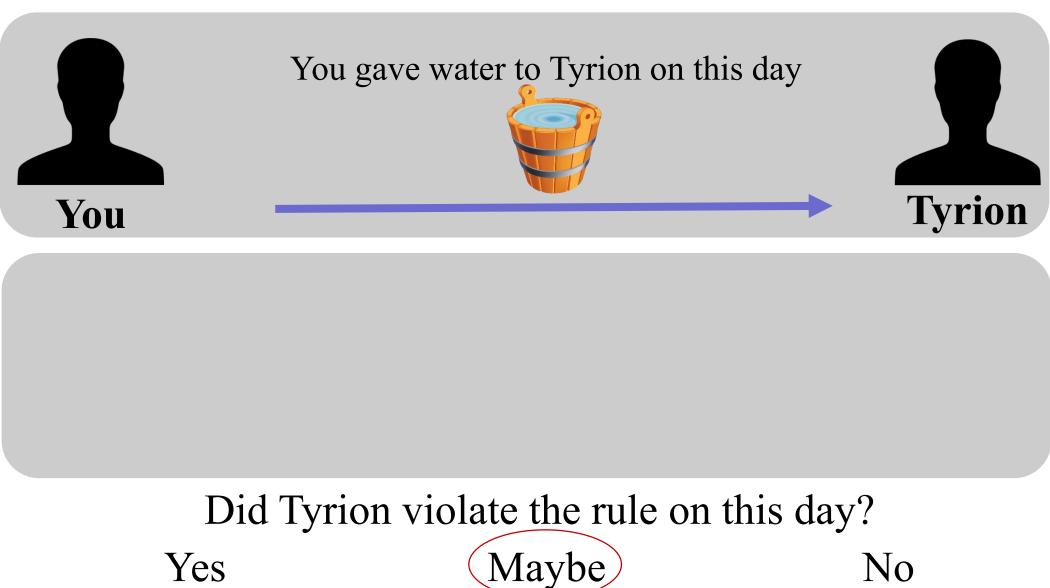
Designed a cheater detection task that:

- Apt for non-literate populations (Sugiyama et al., 2002)
 - Reduce cognitive load
 - Make it sufficiently engaging
 - Picture-based
- Avoid confounding curiosity with incorrect answers

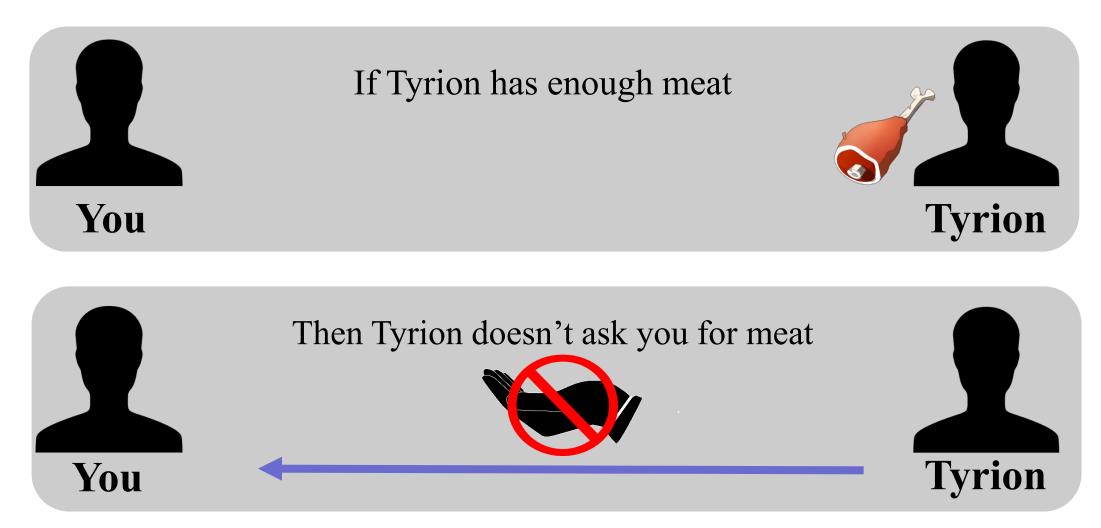
You want to find out whether the following rule has been violated:



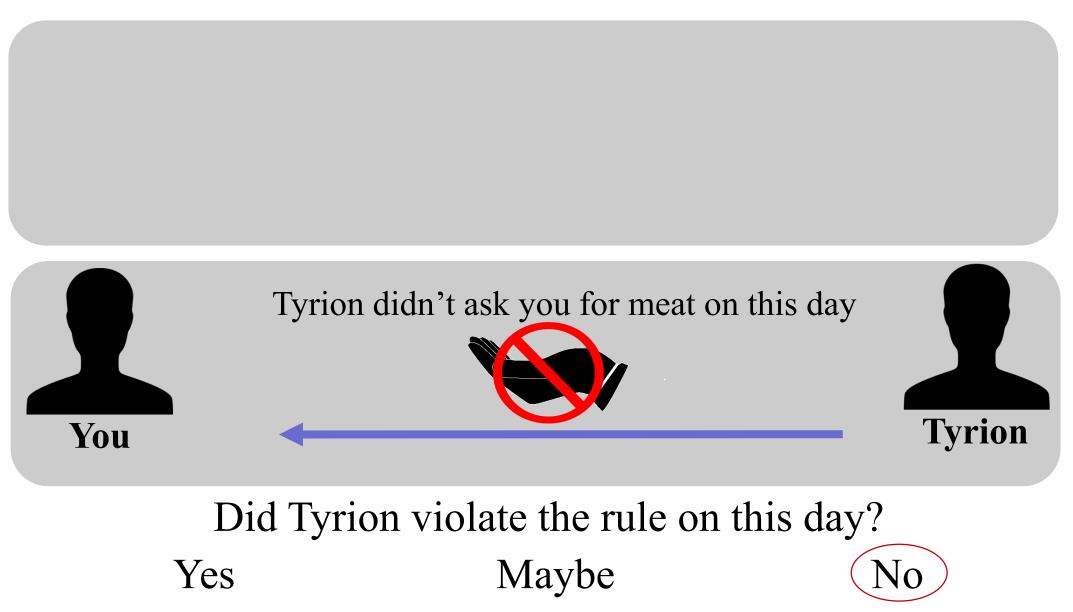
Rule: "if you give water to Tyrion, then Tyrion gives you meat"



You want to find out whether the following rule has been violated:

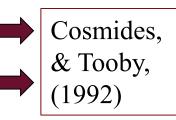


Rule: "if Tyrion has enough meat, then Tyrion doesn't ask you for meat"



Study 2

- Within-subjects study
 - US Mturk participants
- 4 Pictorial Detection Tasks:
 - No social contract
 - Debt not paid
 - Greediness
 - Stinginess



% Strict Correct Responses (getting all questions correct)



Conclusions and Future Directions

- Cognitive mechanisms for detection of:
 - Debt not paid (Cosmides & Tooby, 1992)
 - Greediness
 - Stinginess
- Are these different specialized detection mechanisms?
 - Different resources
 - Different targets

Thank you



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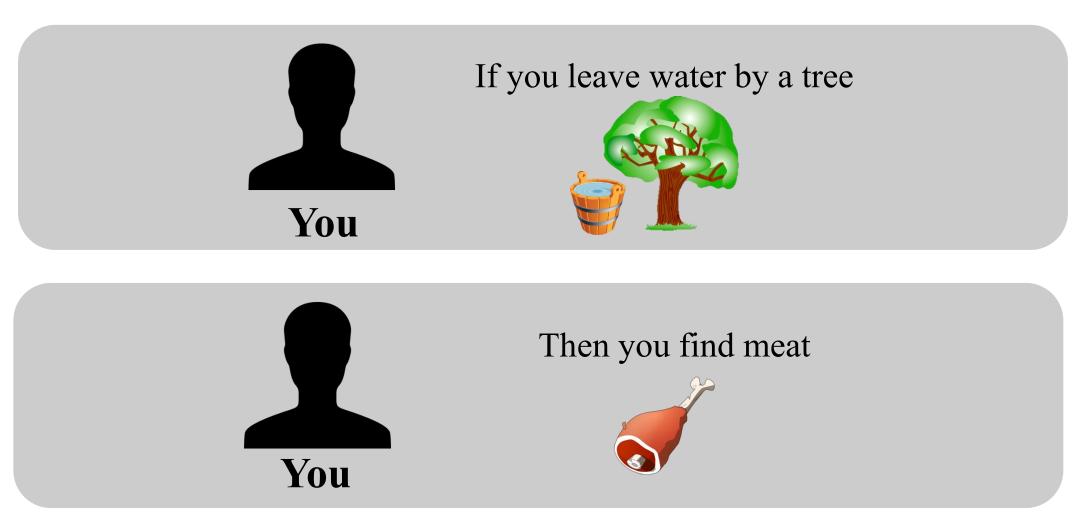


M The Human Generosity Project





You want to find out whether the following rule has been violated:



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