Assignment Project Exam Help

https://powcoder.com

Dr. Guy Mayraz

Aedd Weeker Chat powcoder

Introduction

signment Project Exam Help

Incomplete

Bounded rationality

Social

Beliefs

https://powcoder.com

4 Incomplete preferences

- **6** Social
- Beliefs

ECOS3997

Behavioural

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https://poewcodemiconmand theory

• This is a selective tour, focusing on topics that are particularly likely to be relevant to behavioural Adritorve that powcoder

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• This is a selective tour, focusing on topics that are particularly likely to be relevant to behavioural Adritorve that powcoder

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http://www.though.not.all) of the problems we seek to address interventions are caused by

behavioural biases

How is this relevant

Behavioural Economics

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https://www.dingup.not.all) of the problems we seek to address the problems we seek to address by

behavioural biases

Additional utilise behavioural bases to have people towards better behaviour Oder

Behavioural Economics

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Link to video: http://youtu.be/Yo4WF3cSd9Q

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Behavioural **Economics**

Original experiment

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Moffitt et al. study Modelling will-power

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The experiment

essign freen the Project and Help Offered a food reward (whatever they prefer), which was

either exposed or covered

ttps://powcoder.com

Length of time until bell is pressed (to be able to eat the

- Original focus: techniques for self-control
- Later: correlation between childhood measures of self-control and later life outcomes

Behavioural Economics Results

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Self control measured in the condition in which the reward is

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• SAT verbal and (more so) quantitative

Parental ratings of coping ability as adolescents

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Moffitt et al. stu

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Self control measured by self reports,

echai powcoder by researchers and reports by careful are parents.

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- Strong link with life outcomes: ealth Dowcoder.com
 - Material success
 - Being a single parent

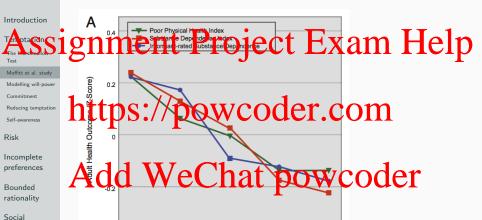
-04

Low

2

Behavioural Economics

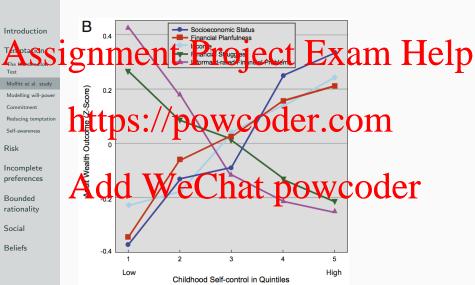
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Childhood Self-control in Quintiles

5 Hiah



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The muslimenton
Test

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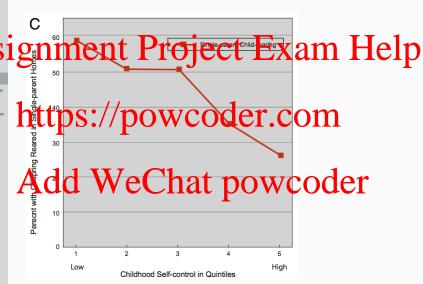
Risk

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Criminal conviction

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Risk Incomplete

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Modelling will-power Commitment powcoder.com Reducing temptation Self-awareness

Childhood Self-control in Quintiles

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dd WeChat powcoder preferences Rounded rationality

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Two systems

Introduction

The most natural behavioural model uses two utility function

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• A short-run utility that is a function only of temptation

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This is a perfect time to get some work done.

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Human and monkey (cont.)

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• "Rational" humans = monkey + uniquely human bit

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1 (15)

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Behavioural Economics Human and monkey (cont.)

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 "Self-control" is the relative strength of the human vs. the monkey

Attents 1 gnm onto gets extent the not the not

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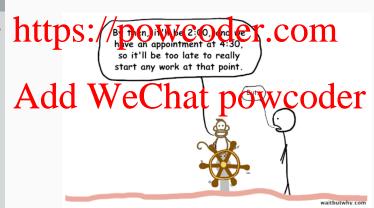
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Dessert example

Introduction

makes you too full and causes weight gain essignment Project Examt Help dessert but only when it's there

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Beliefs

• This results in time-inconsistent preferences:

https://powcoder.com/ prefers not

Long-run utility (human) rejects the dessert, because it

When the dessert is served, the person (human + monkey)

- Long-run utility: u(dessert) = -1
- Short-run utility: v(dessert) = 2
- Ahead of time: u(dessert) < 0
- Dessert served: u(dessert) + v(dessert) > 0

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The standard reton Die Tode (extronential discounting) [20] periodel eating dessert (though this requires an absurdly low

discount factor), but can never model time-inconsistent

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Eating dessert = 2

Addin We Chât powcoder

- Eat dessert if discount factor $= \delta < 2/3$, since then $2 3\delta > 0$
- But then, ahead of time also prefer dessert: $2\delta 3\delta^2 > 0$

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• The $\beta - \delta$ model (hyperbolic discounting) is the

best-known behavioural model of temptation

Ps. / Dowcoder Com

generalists the standard exponential discounting model

• Key idea: discount factor β that weighs equally all future

doesn't really generate additional insights to the

human+monkey model

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Assignment Project Exam Help Self-control changes with age

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Beliefs

It is not like a muscle. There is no evidence that people the Shereas their self-control et length of the human or weaken the monkey)

What people can do is to cleate situations which re-

less self-control

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Eliminating options

The classical example is Odysseus and the Sirens

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Commitment

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The human commits in advance to a course of action, so by the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, there is nothing it can do the time the monkey wakes up, the time the time the time the monkey wakes up, the time the t

When Odysseus was tempted by the sirens, he was unable

Add we have the ship towards them over the ship towards the

Odysseus was not in control of the ship

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Example (Casino black lists) PASS 19 nment als role of the Laxane Help

casino black lists, preventing themselves from gambling.

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• Some alcohol addicts take a drug which reacts to the presence of alcohol, and makes them sick if they drink

- Some students choose self-imposed deadlines for assignments [2].
- Such students do better.

Behavioural Economics More examples

Introduction

Example (Christmas clubs)

gn fristma tlulsare traditional for sofillisuid Melr interest saving to ensure money is available for Christmas

Ten pta ion
The horsemedicate

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Add mitmen Chat powcoder

Example (Obesity)

 Some obese people undergo a stomach reduction (bariatric) surgery, which limits their capacity to eat

Commitment and financial markets

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Remortgaging eliminates the value of owning property as a

Addom has people an powcodericted

access accounts (e.g. superannuation), which again limits their value as a commitment device.

Softer commitment

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It may be sufficient project Exam Help

you publicly promise your friends you will write the report

https://powerpoideporeimaten the report

• the potential embarrassment may also affect the monkey

Add make a credible parties pool at Coderal enemy if you yield to temptation

 this disgusts the monkey, who may reluctantly agree to work

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httpis://spowicioder.icom/le jar can have a big impact

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The order of items in a menu can have a massive impact of

https://powcoder.com

 putting healthier choices first, dramatically increases consumption of healthy choices

AddwWieGthatuspowcoder

• it also works visually in physical shops

Erecting barriers

grab a a cookie

Behavioural Economics

Introduction

would eat fewer cookies than if they just need to reach out and

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Self-awareness

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General point: small barriers have a massive impact on choices

Adfobu Weeplehatmpoweriordieirate all

 if you want people to do less of something, erect barrier—even small ones can be surprisingly effective

Temptations fluctuate

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Because temptations fluctuate, it can be effective to let the monkey have what it wants, but with a bit of delay

brepare to stop working, or to stop exercising—but in 5 or

10 minutes

Add WeChat powcoder Once 5 or 10 minutes pass, the monkey may be calmer, and

will let you continue

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Self-awareness or sophistication is essential for people to use

• Without self-awareness, there would be no demand for Administrated the control of the control

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Beliefs

Naivete is key to procrastination Project Exam Help

Suppose you need to write a report at some point during the

https://powcoder.com.omorrow is better

Add we can be lieving that tomorrow the monkey power of the monkey and the monkey power of the monkey powe

- Come tomorrow, the monkey again refuses to work
- In the end, the report is only written when it can no longer be postponed

Report example (cont.)

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If the human had correctly predicted this, he would have put up

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insisting on writing the report now

Adda Mechat powcoder

• etc.

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Increasing self-awareness can be effective at improving

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People have a concave utility function over consumption,

such as $u(c) = \sqrt{c}$, or $u(c) = \log c$. https://www.crondept.ctCyOnTheoreted utility of their total consumption

Asil Att We Chat powcoder and a chance p of winning x

Expected utility is given by

$$(1-p)u(w) + pu(w+x)$$

Concave utility function

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https://powcodercieons are always

But since utility is defined over final wealth, decision makers are Average was a more form on the first wealth

Effective risk neutrality

Behavioural **Economics**

Introduction

An expected utility maximiser with $u(x) = \sqrt{x}$ has a wealth of resignment Project Exam Help

He has a 50% chance of winning some amount of money

5000000

1974744.8714

5000

2498.4414

500

249.9844

50

24.9998

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Example

Alan prefer vertain gain of \$4 over a 50% change of gaining power and power

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Example

AddefeWechhatlopowcoders of \$4



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Prospect Theory (Kahneman and Tversky, 1979) is the main

behavioural theory for choice under uncertainty

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The key assumptions are that

A bedple waturate risky prospects as gains and lisses.

2 a given difference carries mare weight near zero than

further away from zero

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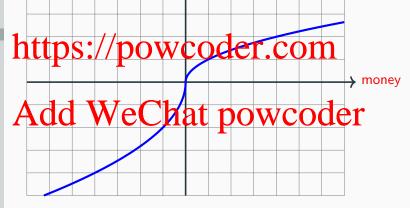
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This is consistent with psychological principles of perception property Exam Help

Changes rather than absolute levels

For example, people adapt to the pverall light level, and focus https://pow.coder.comen though a

white objects indoors reflects less light than a black object

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For example, the perceptual difference between 500 grams and 1 kilo is greater than the perceptual difference between 4.5kg and 5kg

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• Risk aversion over gains (including small ones)



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https://powerstern.orgains or in terms of losses

• Since people are risk seeking over losses, such framing can Acted the people are risk seeking over losses, such framing can be seeking over losses.

The "Asian Disease" problem

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SSignificant the U.S. is preparing for the outbreak of an

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proposed. Assume that the exact scientific estimates of the consequences of the programs are as follows:

unusual Asian disease, which is expected to kill 600 people.

Add We Chat 2 powed det 72%

• If program B is adopted, there is a one-third probability that 600 people will be saved and a two-third probability that no people will be saved (28%)

The "Asian Disease" problem

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Significantio Project 5 Exam Help Magine that the U.S. is preparing for the outbreak of an

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proposed. Assume that the exact scientific estimates of the consequences of the programs are as follows:

unusual Asian disease, which is expected to kill 600 people.

AddoWeichtat bowdder

• If program D is adopted, there is a one-third probability that nobody will die and a two-third probability that 600 people will die (78%)

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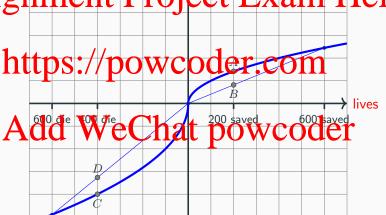
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Framing affects experts

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Experts are not immune to framing effects

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The following two frames lead to different choices by both doctors and patients:

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• The operation has a 20% mortality rate

The reference point

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We talked about gains and Josses, but didn't say what the Project Exam Help

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In some cases, the reference-point is up for grabs: ps://powcoder.com

• Expected wealth level (e.g. expected raise)

Purchase price

By causing people to adopt a different reference-point, you may be able to change their choice



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httple leve de tain gains, ever and chove what would be predicted by rish aversion Coder. Com

Action gaining \$200 is evaluated as much better than a 99% chart powcoder

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predicted by risk seeking

A certain loss of \$990 is evaluated as much worse than a 99% Act of lower to hat powcoder

Dynamic implications

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More importantly, they chase losses, hoping to get back to



Economics

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bracket the risks that they face

https://power-benefit is solved by the state of the state

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Social Beliefs **Broad bracketing**

Narrow bracketing

Risks are perceived broadly in both space and time

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Behavioural **Economics**

Investment portfolio vs. individual stocks

Entire portfolio

Thinking of an investment portfolio as a whole is an example of

gnment Project Exam Help Investors still react to gains and losses, but are not

bothered by gains and losses in individual shares

DStock i DOLL OF OF THE HOSSES

without incurring a certain loss in her entire portfolio

ndiddal weeks Chat powcoder

bracketing

- If a stock is doing poorly, cutting losses requires the investor to accept a certain loss
- This is hard, so the investor is less likely to act optimally

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Bracketing over time

Introduction

Daily portfolio check

gnmemt w roje ostinustremmons dileip experiencing losses on an almost daily basis

• This is unpleasant, and can lead to suboptimal investment

https://powcoder.com

• It is an example of narrow bracketing

And owe Chartelin checkwooder

- An investor who examines his investment returns annually is less likely to experience losses, and more likely to make optimal investment decisions
- It is an example of broad bracketing

.

Standard model

Reality

Gains and losses

Framing

Certainty

Bracket

Incomplete preferences

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• $A \succ B$ (A preferred to B),

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Introduction

The most important assumption in standard economics is that Assan Help

Incomplete preferences

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https://powcoder.com $A \sim B$ (A and B are valued exactly the same)

AddatWeChatipowcoder

- u(A) > u(B),
- u(B) > u(A); or
- u(A) = u(B)

Behavioural Economics

Implication of complete preferences

Introduction

Aus sign People the Project Death Help Risk Project Death Death Help Risk Project Death Death

 In particular, people know exactly how much they are willing to pay for anything

https://powwooderecompreserence

• More choice is always good (can only increase utility)

Add. Wie Chat powcoder

When people change their preferences (e.g. because of temptation), standard economics cannot tell us whose preference should count for welfare purposes

Incomplete preferences

Standard economics

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Introduction

The trade-off between two desirable attributes is represented by the standard of the standard

Incomplete

preferences Standard economics

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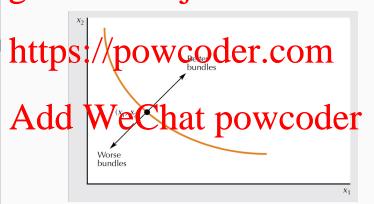
The compromise offect

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Indifference cont.

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Since indifference curves have width zero, there is zero is that powered erodom he same

Conclusion

hoperson wuldered paidiffer three or equal bundles, always strictly preferring one bundle to the other

Introduction

Assignment Project Exam Help

Consider the following choice:

Incomplete preferences

Standard economics
The anchoring effect

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What indifference means

A de le tWie Gren atwent the corte in an espresso (un caffe) should break vo

throwing in an espresso (un café or un caffè) should break your indifference

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D. Ariely et al., "Coherent Arbitrariness: Stable Demand Curves Nit OStable Prove OCA fer Com of

Economics 118.1 (2003), pp. 73–105

Two lay diffits of own social security dumber

Behavioural Economics

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preferences
Standard conomics
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Att S S I S N FRA CATH WILLING FOO FOOT COTE OF TOWN THE SAIPLE P

t	Quintile of SS# d s ri uni Ql	Cordless tyagkilai	Cordless	Average Wire	Rare	Design	Belgian chocolates
	1 2 3	\$ 8.64 \$11.82 \$13.45	\$16.09 \$26.82 \$29.27	\$ 8.64 \$14.45 \$12.55	\$11.73 \$22.45 \$18.09	\$12.82 \$16.18 \$15.82	\$ 9.55 \$10.64 \$12.45
	Add	21718 V.16 .415	\$3455 \$55 6 .516	\$15.45 27.11 0.328	\$24.55 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$19.25 \$3\00 0.319	$\begin{array}{c} \$13.27 \\ 20.64 \\ .419 \end{array}$
		p=.0015	p < .0001	p = .014	p=.0153	p=.0172	p=.0013

The last row indicates the correlations between Social Security numbers and WTP (and their significance levels).

Conclusion

Behavioural Economics

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People do not have a well-defined monetary value for goods

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Economist example (no decoy)

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Standard economics The anchoring effect

The decoy effect

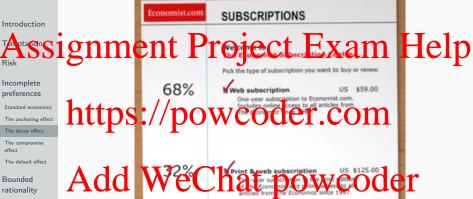
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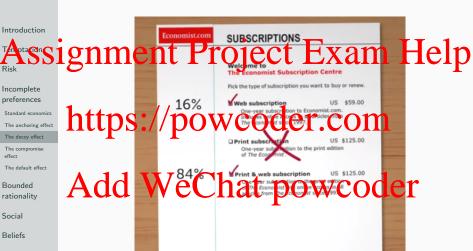
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attribute 2

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attribute 1

attribute 2

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attribute 1

Decoy effect (cont.)

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rationality

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- Nobody chooses C
- A Nevertheless, its presence affects choices, making it more A lie of the had a powcoder

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Some people have no preference between A and B

• A (but not B) is clearly better than C

here We fersh ration policy counternot

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attribute 2

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Compromise effect

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attribute 2

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attribute 1

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However, their presence affects choices

Few people choose C or D

• With D present, B is more likely to be chosen

didWeChat powcoder ossing the middle option is a reasonable decision

- (when you have no preferences)
- It also feels safer

Marketing

Behavioural Economics

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preferences
Standard economics

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https://powcedefiseding.hat few people buy, and avoid stocking very cheap items

One reason is to make fairly expensive items look like a Add move of ion hat powcoder

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Incomplete

preferences
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The decoy enec

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rssignment, Project Exam Help

Incomplete • A or B?

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Some option is the default

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 But can also make no choice, in which case end up with the default

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Incomplete preferences

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Beliefs

Defaults should not matter

https://power.comfault

Exception

Add Waking an active choice is postly, so not worth it

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Behavioural **Economics**

Introduction

Saving for pension

Research question

Does the default option affect outcomes even when

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it's really easy to change

Incomplete preferences

Standard economics

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Reliefs

s://powcoder.com

different defaults

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Rational choice

Save (and save a lot):

- necessary for decent retirement
- company matching employee saving

Saving for pension

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Incomplete

preferences Standard economics

The anchoring effect

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The default effect

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Reliefs

• participate at 3% level in money market fund

https://powcoder.com

Participation rate a year after joining company:

Add in group with no participation default hat paid paid of default paid of de

Conclusion

Default options matter greatly in high-stakes real-life situations

Choosing investment funds

Behavioural **Economics**

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Sweden privatised social security in 2000

456_plans on offer default

• Nevertheless, 43.3% chose the default, later increasing to 91.6%

Medicare Part D

Behavioural **Economics**

Introduction

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Medical Part D is a 2003 law offering seniors coverage for drug

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The Bush plan

- President's Bush plan gave seniors dozens of choices in
- Add WeChat powcoder
 - The default was non-enrolment in most cases, and random in others

Incomplete preferences

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Aussignment Project Exam Help "The reason why we felt it was necessary to provide

Incomplete

preferences Standard economics

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choices is because we want the system to meet the that suits your specific needs. In other words, one-

is for consumer-friendly program

(President Bush)

Results

Behavioural **Economics**

Introduction

**Ssignment Project Exam Help 73% of seniors 90% of doctors and pharmacists said part

Incomplete preferences

Standard economics

The anchoring effect The decoy effect

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Reliefs

D was "too complicated."

https://powiedudefedicomcause of problems in managing their new plan

• 4 million seniors ended up with no cover whatsoever (when Add We that powcoder

Many others ended up with a random default, paying an average of \$700 over an optimally chosen option

Postmortem

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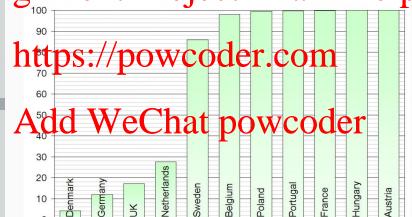
"I knew that when we. . . laid out the idea of giving seniors choices, it would create a little confusion for some. DS:/aftDQWtCGGeThaCOM..many choices in the system, and all of a sudden [for] a senior who feels pretty good about things [here comes] old up." (President Bush)

Behavioural Economics

Organ donations

• Chart shows % who agree to organ donations

• Countries with high numbers have enrolment as the default nment Project Exam Help



Introduction

Risk

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Behavioural **Economics**

Explaining the default effect

Introduction

Incomplete preferences gnmenth Representate Xamwhelp don't know what to choose

Incomplete preferences

Standard economics

The anchoring effect The decoy effect

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Rounded rationality

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Reliefs

The more choices, the more likely it is that people stick DSthe de Down Good Of he will e expected in a standard model)

Harder choices also make it more likely that people stick Add WeChat powcoder

Loss aversion

 People compare alternatives to the default, putting extra weight on attributes in which the alternative is worse

Behavioural Economics

Introduction

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meroduces

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• the goal is clear (preferences are complete), but

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Particular focus on strategic interaction

Add golds echat, powcoder

- It is a game of complete information
- It is theoretically possible to analyse it, and find a solution

Chess (cont.)

Behavioural Economics

Introduction

Signment Project Exam Help on every chess game, one of the following must be true:

Incomplete preferences

Bounded rationality

Introduction

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Both sides can force a draw

Amplication With Combunded pationality Coder

 The outcome of every game would be the same: the Nash Equilibrium of the game

Chess (cont.)

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https://powerofatoms in the universe

And service Cinatin powcoder

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Nomenclature

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Cognitive hierarchy

Add depth of reasoning powcoder

Introduction

Players are classified into levels of reasoning

gnmentea project ng Enxamin Hichp

L1 best respond to L0

ps://powcoder.com

• L3 best respond to L2

WeChat powcoder

- Most people are L1 or L2
- Some are I 0.
- L3 and above are rare

Incomplete preferences

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 Overestimating their rationality may be as much of a mistake as underestimating it



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Behavioural Economics Introduction

Introduction

gnment Project Exam Help

Goal

Name

Demonstrate level-k like behaviour in a setting in which Nash

Rules

A talk winner is the player whose guess is closest to 2/3 of the mean of all guesses

Nash equilibrium

Everyone guesses 0

Incomplete

Bounded rationality

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• L0 chooses 50 on average

• L3 chooses $(2/3)^3 \times 50 \approx 15$

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Everyone chooses 0

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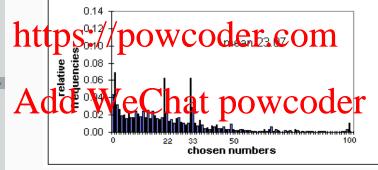
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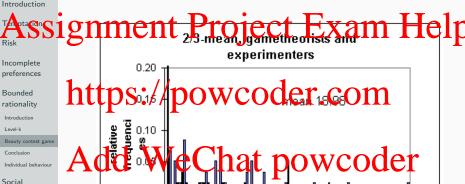
Game theorists and experimenters

0.00

Behavioural **Economics**

Introduction

Beliefs



22

50 chosen numbers 100

Behavioural Economics

Introduction

Comparative statics (one round game)

Stakes

Not much difference

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Risk Help

Incomplete preferences

Bounded rationality

Introduction

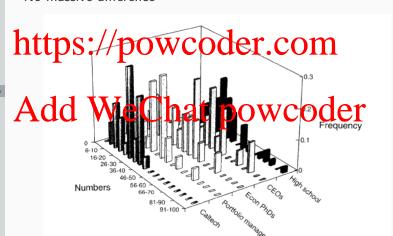
l ovol-k

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Roughly speaking, people best-respond to the typical



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**Ssignments Project Exam Help • Common knowledge of rationality reasoning does not work

Common knowledge of rationality reasoning does not work
in practice

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Repeated games

A the previous round's behaviour the previous round's round's behaviour the previous round's roun

 In some cases, behaviour eventually converges to Nash-equilibrium

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The profit maximising firm

Introduction

and prices to maximise profit

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Individual behavio

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Beliefs

https://www.kipow.what.market demand is, and solve profit Quarto COM

Reality

Adds Welchatmpoweeder

- Nobody solves profit maximisation equations
- Firms use rules-of-thumb, such as cost plus pricing (charge 20% more than production cost)

Competitive pressures

Behavioural Economics

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Incomplete preferences

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Beauty contest game

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Beliefs

http://phydompetitive markets (and not all markets are period will drive out less optimal behaviour

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Analogy with repeated Interaction in games

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Social

Standard economics

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• Care only about their own consumption

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Behavioural Economics

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Preferences over distribution

Selfish

Don't care about others at all

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Competitive

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Adah Wre Chahate powcoder

Common

Equality

- Want others to have more, but not more than themselves
- Most common?

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• They get a warm glow from it

Prefer this to more effective help

Acceptively for contact of Government of Contact of

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Behavioural **Economics**

Introduction

Temptation to help

Beggars

Many people will donate to a beggar than the people will donate the people will donate to a beggar than the people will donate the

street to avoid the beggar

Incomplete preferences

Bounded rationality Social

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 Many people will donate to charity if they knock on their door

And if where in hyate postsyching items to solicit donations, they will not open the door

Helping as a temptation

 Helping, for these people, is something they cannot help doing, but prefer not to

Reciprocity

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- Many people like to reward nice people
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Conformity

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People will often conform with how other people around them

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• If other people are good, they will also be good

Add the Worder bather owe oder

It takes an unusual personality to defy social norms

Introduction

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Social

Other-regarding

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Beliefs

 $https: \begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line($

• If you tell people that they use up less energy than their

Add We hat powcoder social comparisons can charge behaviour in both direction

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rationalit

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Social norms are often very strong, and people are well aware

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Ultimatum game

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The game

ignmenter Project a Extanney Hethp

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Other-regarding preferences Conformity

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Reliefs

The Recipient can accept or reject the offer

https://pow.coder.com

• The Proposer will offer as little as possible, and the

- Recipients reject many offers below 40%
- Most Proposers offer at least 1/3 to the Recipient, and usually 40-50%

Ultimatum game

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• Recipients follow this norm

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Anchoring effect

Confirmation bias

Wishful thinking

Social conformity

Base-rate neglect

Availability

Representativeness

Probabilities

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A - - b - - i - -

Confirmation bias

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Probabilities

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Behavioural Economics

Anchoring in beliefs

Introduction

Example (Number of countries in Africa)

gnmited the project of Examination of the street of the st

What's your best guess for the number of countries in

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Results

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Conclusion

Beliefs can often be manipulated

Incomplete preferences

Bounded rationality

Social

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Confirmation bias

Wishful thinking

Social conformity

Base-rate neglect

Availability

Representativeness Probabilities

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Once people come to believe something, they are biased to https://pow.coder.coms

Confirming evidence will be accepted without question

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Behavioural **Economics**

Introduction

Polarisation

Corollary of confirmation bias

If two groups believe opposite things, mixed evidence will drive essignment Project Exam Help

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Explanation

Each side will unquestionably accept the evidence that supports their position

Each side will reject much of the evidence that contradicts

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Exception

- Evidence not open to interpretation
- Example: colour of balls drawn from an urn
- Such cases are rare in practice

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Overcoming confirmation bias

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Whenever possible, gather all the evidence first, and only then

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- Act like a scientist, writing down testable predictions, and Act like a scientist, writing down testable predictions, and Act like a scientist, writing down testable predictions, and Act like a scientist, writing down testable predictions, and
 - This is very different from an informal evaluation of the evidence after the fact

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People are biased to believe what they want to be true

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Incomplete to win

preferences Bounded

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• Etc.

- Failure to reach efficient agreement
- Negative-sum games

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Dana and analysis

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Representativeness Probabilities • This can be rational (if everyone has independent evidence), but people may also irrationally ignore their tops information would be compared to the contraction of the contraction of

Implication for group decision making

Add hear what or hear plant of the plant with the property of the plant with the

- Otherwise, the order of speakers will affect the result
- People in authority should be particularly careful not to reveal their view too early

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Breast cancer screening

Behavioural Economics

Introduction

Assignment Project Exam Help Reast cancer screening has 75% sensitivity and 88% specificity.

• 75% of women with cancer test positive

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Case

Add likely is she that break cancer der

Answer

• Less than 1%

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What's going on?

Base-rate

The base-rate in the population is extremely low Help Despite the high sensulvity and specificity of the test, a

positive test is much more likely to be a false positive than

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People don't think like that

woman and her test result (Probability of positive test given disease)

• It's hard to think of the non-causal inverse-probability (Probability of disease given positive test)

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Representativeness Probabilities People often assess the likelihood of events by how easy it https://powecoder.com

• Shark attacks are assessed as common, because people remember reading about a shark attack

Accent we we hat opposite of the bility evaluation

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Representativeness Probabilities People feel that a sequence of random draws should be heteps:/powcoder.com

TFTTFTFFT etc.

Aarher's We Chat powcoder

If they see several TTT in a row they think F is due

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Behavioural Economics

Limited understanding of uncertainty

Introduction

Most people have a very limited understanding of uncertainty:

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Certain not to happen

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• The final forecast of the 538 website was a 2/3 probability

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- After Trump won, many people just said they were wrong
- What's worse, they did not distinguish between this prediction, and that of people who said Clinton is certain to win

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Most people (including university students) are hopeless at

expressing their uncertainty in probability terms