1	Appendices: Questionnaires			
2	of			
3	"Eliciting Decision Weights by Adapting de Finetti's Betting-Odds			
4	Method to Prospect Theory"			
5				
6	by			
7				
8	Enrico Diecidue, Peter P. Wakker, & Marcel Zeelenberg			
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11	Appendix A. Instructions for: Choosing between two alternatives (May 16, 2001)			
12	Welcome to this investigation into choice behavior, and thanks for your willingness to			
13	participate.			
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15	In this investigation we will ask you to make a number of choices. You will choose between			
16	different options, indicated as columns in figures, with uncertain outcomes. The situations in			
17	which you will choose are depicted as follows:			
18				
19	+ +++			
	$\uparrow\uparrow 20 10 12$ $\downarrow\downarrow 40 40 42$			

In the middle of the figure you see a grey column. This column is the "reference-option". The amounts in this colum are the amounts, in guilders, that you might win if you were to receive this option. In this case, these amounts are Dfl. 10, Dfl. 40 or Dfl. 70. Which of these amounts

25 you win depends on the outcome in the first column. The outcome in the first column is 26 determined by the results today of two stock-exchange indexes: the Dow Jones IA (DJ; the 27 most important stock-index in New York) and the Nikkei 225 (NK; the most important stock-28 index in Tokio). It is unknown at this moment whether the indexes will increase or decrease. 29 This will only be known after the next closures of the stock-exchanges. If both the DJ and the NK increase (indicated by $\uparrow\uparrow$ in the first column) then the grey colum yields Dfl. 10. If both 30 stock-indexes decrease (indicated by $\downarrow\downarrow$ in the first column) then the grey column yields Dfl. 31 32 40. In all other cases, where one index decreases and the other increases or one or both remain 33 constant (indicated by $\downarrow\uparrow=$ in the first column), the grey column yields Dfl. 70. 34 35 To illustrate, we give the information concerning yesterday: 36 Yesterday both indexes decreased. The grey column would have yielded Dfl. 40. Of course, 37 past results are no guarantee for future results. Let us return to the experiment, which 38 concerns the increases or decreases of today and not those of yesterday. 39 40 Consider the above choice again. On both sides of the grey column you see another column, 41 the left one indicated with a big plus (+) and the right one with three small plusses (+++). In 42 this investigation we ask you each time to choose between these two columns. As you can 43 see, both columns are improvements compared to the grey column, the "reference-option": 44 The column with the single large plus (+) gives a single large improvement. This means 45 that one of the outcomes is considerably better than in the grey column. The other two outcomes are the same as in the grey column. In the example you see that the outcome 46 47 Dfl. 10 has been increased by Dfl. 10, it is now Dfl. 20. 48 The column with the three small plusses (+++) gives three small improvement. This 49 means that all outcomes are somewhat better than those of the grey column. In the example you see that all outcomes have been increased by Dfl. 2 (they are now Dfl. 12, 50 51 Dfl. 42 and Dfl. 72).

and Dfl. 12 if you chose the (+++) column. If both indexes decrease ($\downarrow\downarrow$), then you receive Dfl.

40 if you had chosen the (+) column and Dfl. 42 if you had chosen the (+++) column. In all

other cases (↓↑=) you receive Dfl. 70 if you chose the (+) column and Dfl. 72 if you chose the

In this investigation we ask you to indicate in various figures which of the two improvements

you prefer, the (+) column or the (+++) column. You can indicate your choices by putting a

cross under the column of your choice. We want to emphasize that there are no right or wrong

¹The performances of the indexes on a specific day are hard to predict. It is, therefore, still

uncertain at this moment what will happen today. Will both indexes increase $(\uparrow\uparrow)$, will both

decrease $(\downarrow\downarrow)$, or will another case occur $(\downarrow\uparrow=)$? Although we do not know what will happen

today, we do know that these three possibilities were not equally likely during the last two

months. The most likely possibility was ↓↑=. This occurred in almost half of the cases. Of the

other two possibilities, $\uparrow\uparrow$ occurred considerably more often than $\downarrow\downarrow$; $\uparrow\uparrow$ occurred in about 1/3

of the cases and \$\frac{1}{2}\$ in about 1/5 of the cases. Thus, after having mostly decreased for over a

year, the indexes performed well during the last two months. When deciding, you will pay

most attention to $\downarrow \uparrow =$, because this is most likely possibility. Obviously, markets today are in a

different position than in the past, and results obtained in the past are no guarantee for results

answers, only your own preference matters. We are interested in your preferences.

Do you have questions about the explanation so far?

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Therefore, if both indexes increase ($\uparrow\uparrow$), then you receive Dfl. 20 if you chose the (+) column

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(+++) column.

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in the future.

¹ The information in the following paragraph varied some between different groups, depending on the

day of the experiment.

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We next show what a page of the questionnaire looks like.

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Each page contains a row with 10 choice-situations. For the moment, let us only consider the

81 first choice situation:

82

83		+		+++
	$\uparrow \uparrow$	80	50	53
	$\downarrow\downarrow$	10	10	13
	↓↑=	30	30	33
84	Choice			┰

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Here you have to choose again between the two improvements: the (+) column, an

87 improvement of Dfl. 30 if both indexes increase, or the (+++) column, an improvement of Dfl.

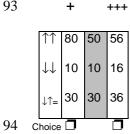
3 in all cases. Put a cross indicating your choice. When you are done, consider the second

choice-situation in the row, depicted below. You see that the (+) column and the grey column

are still the same, but that each outcome in the (+++) column has been further improved by an

91 additional Dfl.3, so it is now Dfl.6 better than the grey column.

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Indicate again which of the two columns you prefer, the (+) column or the (+++) column. In

the third choice situation the same thing is repeated. The first two columns remain the same,

whereas each outcome in the third column has been further improved by an additional Dfl. 3,

99 so that it is now Dfl.9 better than the grey column.

101 + +++

		$\uparrow \uparrow$	80	50	59
		$\downarrow\downarrow$	10	10	19
		↓ ↑=	30	30	39
102	С	hoice			

Indicate again which of the two columns you prefer, the (+) column or the (+++) column.

The whole row consists of 10 such choice-situations. In all ten choice-situations the (+) columns are the same, and the grey column likewise, where in the first one amount has been increased relative to the grey column (e.g., Dfl.80 instead of Dfl.50).

In the (+++) column all three amounts are increased compared to the grey column, where the increase augments with fixed step sizes as we move more to the right. The (+++) column, therefore, becomes more and more favorable.

You will mostly prefer the (+) column in the first choice situation. Because the other column, the (+++) column, becomes increasingly favorable, you will probably change preference in one of the choice-situations. Then you choose the (+++) column. Because this column continues to become more favorable, you will probably continue choosing the (+++) column in the rest of the series.

We next explain the payment that you receive for this investigation. You surely receive a fixed amount of Dfl. 25 for your participation. In addition, there is a chance to make more money. How much more you earn depends on the choices that you make during this investigation. At the end of the investigation, we will randomly select 1/10 of you. For those selected we will, again randomly, select one of the choices from the whole set, and on the basis of the choice of the participant and the result of the indexes, the selected participant will be paid. If you have been selected to play for real then you can collect your gain starting tomorrow in office B. 9.11. It is, therefore, important to carefully indicate the option of your

preference, because it is possible that you will really play the chosen column eventually with real payments. Again, there are no right or wrong answers, the only relevant thing is what you prefer yourself! This is also what we are interested in.

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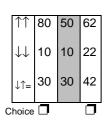
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To conclude, a practice question. Imagine that we would play the following choice for real money. Indicate which column you would choose:

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+++

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Imagine the tomorrow it turns out that both indexes have decreased. How much would you

receive with your choice?

(fill in your answer)

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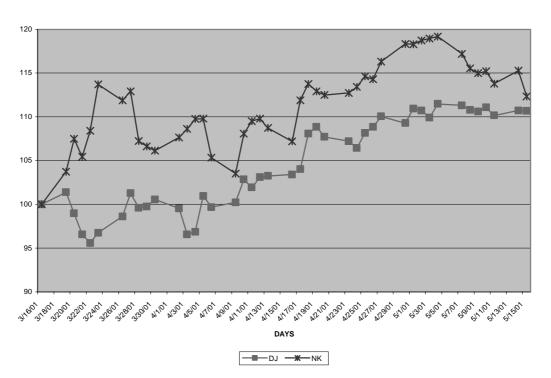
Do you have any questions? If not, then good luck with the experiment.

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Appendix B. A Chart

The chart given to the students on May 16, 2001 was stated in Dutch, was twice the size of the picture below (printed in landscape orientation), and used colors.

DAILY RESULTS



Appendix C. Intermediate Questions

148			
149	Do you find it easy or difficult		easy
150	to decide which column		
151	you prefer?		difficult
152			
153			
154			
155	Do you consider, during your decision,	О	yes
156	how often the events $\uparrow\uparrow$, $\downarrow\downarrow$		
157	and ↑ = have happened in the past?	□	no
158			
159			
160			
161	Which of the events seems to be most	□	$\uparrow \uparrow$
162	likely today?	О	$\downarrow\downarrow$
163			↑↓=
164			
165			
166	Good luck with the remaining questions!		