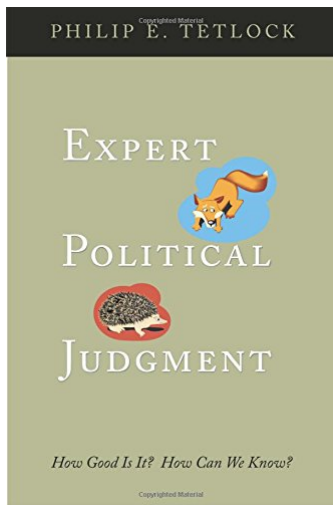


# Pre-read for Tuesday, Sept 8: Predicting geopolitical events, part 2

Matthew J. Salganik

COS 597E/SOC 555 Limits to prediction

Fall 2020, Princeton University



20 years in the making

BOOKS DECEMBER 5, 2005 ISSUE

# EVERYBODY'S AN EXPERT

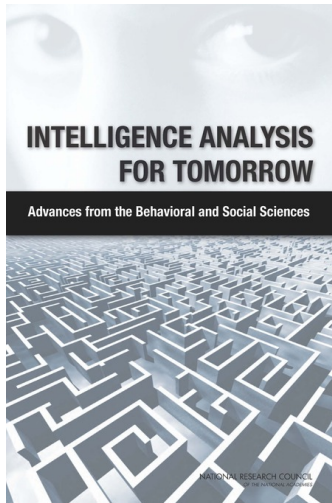
*Putting predictions to the test.*



By **Louis Menand**

November 28, 2005

<https://www.newyorker.com/magazine/2005/12/05/everybodys-an-expert>



<https://doi.org/10.17226/13040>

# Accuracy of forecasts in strategic intelligence

David R. Mandel<sup>a,1</sup> and Alan Barnes<sup>b,2</sup>

<sup>a</sup>Socio-Cognitive Systems Section, Defence Research and Development Canada, Toronto, ON, Canada M3K 2C9; and <sup>b</sup>Formerly of the Intelligence Assessment Secretariat, Privy Council Office, Ottawa, ON, Canada K1A 0A3

<https://doi.org/10.1073/pnas.1406138111>



Intelligence Assessment Secretariat, part of the Canadian Security Intelligence Service

## Predictions embedded in reports

- ▶ “The intense distrust that exists between Country X and Country Y is almost certain [9/10] to prevent the current relationship of convenience from evolving into a stronger alliance.”
- ▶ “It is very unlikely [1/10] that either of these countries will make a strategic decision to launch an offensive in the coming six months.”

- ▶ How do their predictions compare to the ones by Tetlock's experts?



- ▶ How do their predictions compare to the ones by Tetlock's experts?
- ▶ What variation is there in performance for different types of predictors or outcomes?

## Reading notes:

- ▶ Tetlock (2005): roughly 15% of cases had ambiguous outcomes (p 296), Mandel and Barnes (2014): 20% of cases had ambiguous outcomes (p 10987)

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- ▶ Tetlock (2005): roughly 15% of cases had ambiguous outcomes (p 296), Mandel and Barnes (2014): 20% of cases had ambiguous outcomes (p 10987)
- ▶ Who picks tasks? It seems like analysts pick what they forecast (somewhat)

## Reading notes:

- ▶ Tetlock (2005): roughly 15% of cases had ambiguous outcomes (p 296), Mandel and Barnes (2014): 20% of cases had ambiguous outcomes (p 10987)
- ▶ Who picks tasks? It seems like analysts pick what they forecast (somewhat)
- ▶ Hard or easy are coded by experts after the fact

From SI:

Low/moderate difficulty included judgments under most or all of the following conditions:

- (i) availability of a substantial and credible information base,
- (ii) involving a limited number of factors and/or largely a straight-line continuation of current trends,
- (iii) little influence of irrational or unpredictable behavior, and
- (iv) generally involving a short time horizon (several months).

Moderate/high difficulty included judgments affected by some of the following conditions:

- (i) a limited and unreliable information base,
- (ii) involving a wide range of complicated factors with multiple potential outcomes,
- (iii) high likelihood of unpredictable behavior, and
- (iv) involving a longer time horizon (a year or more).

There were 675 easier forecasts and 839 harder forecasts.

Providing some indication of reliability, there was less outcome variance in the easier set ( $VI = 0.19$ ) than in the harder set ( $VI = 0.25$ ). (But no measure of inter-coder reliability).

# Judging political judgment

**Philip Tetlock<sup>1</sup> and Barbara Mellers**

*Department of Psychology and The Wharton School, University of Pennsylvania, Philadelphia,  
PA 19104*

<https://doi.org/10.1073/pnas.1412524111>

## Reading notes

- ▶ How do they explain any difference in findings between Mandel and Barnes and Tetlock (1995) and Meller and Tetlock (what comes after Tetlock 1995)?
- ▶ What does this mean for our ability to learn anything from an empirical study like this?





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## Cables

- ▶ How accurately can the perceived contemporaneous impression of importance judgements predict subsequent judgement by historians?
- ▶ How well can an ML model training on the cables predict subsequent judgement by historians?
- ▶ What do the errors of the humans and the algorithms teach us?

What to read next:

- ▶ “Bobby W.” (2019) [The Limits of Prediction—or How I Learned to Stop Worrying About Black Swans and Love Analysis](#) “The key struggle for intelligence analysts is that they are made to produce and what their consumers think they can produce are often two different things.”
- ▶ Doran (1999) <https://www.jstor.org/stable/3186379> Why Forecasts Fail: The Limits and Potential of Forecasting in International Relations and Economics
- ▶ What to read next from last class