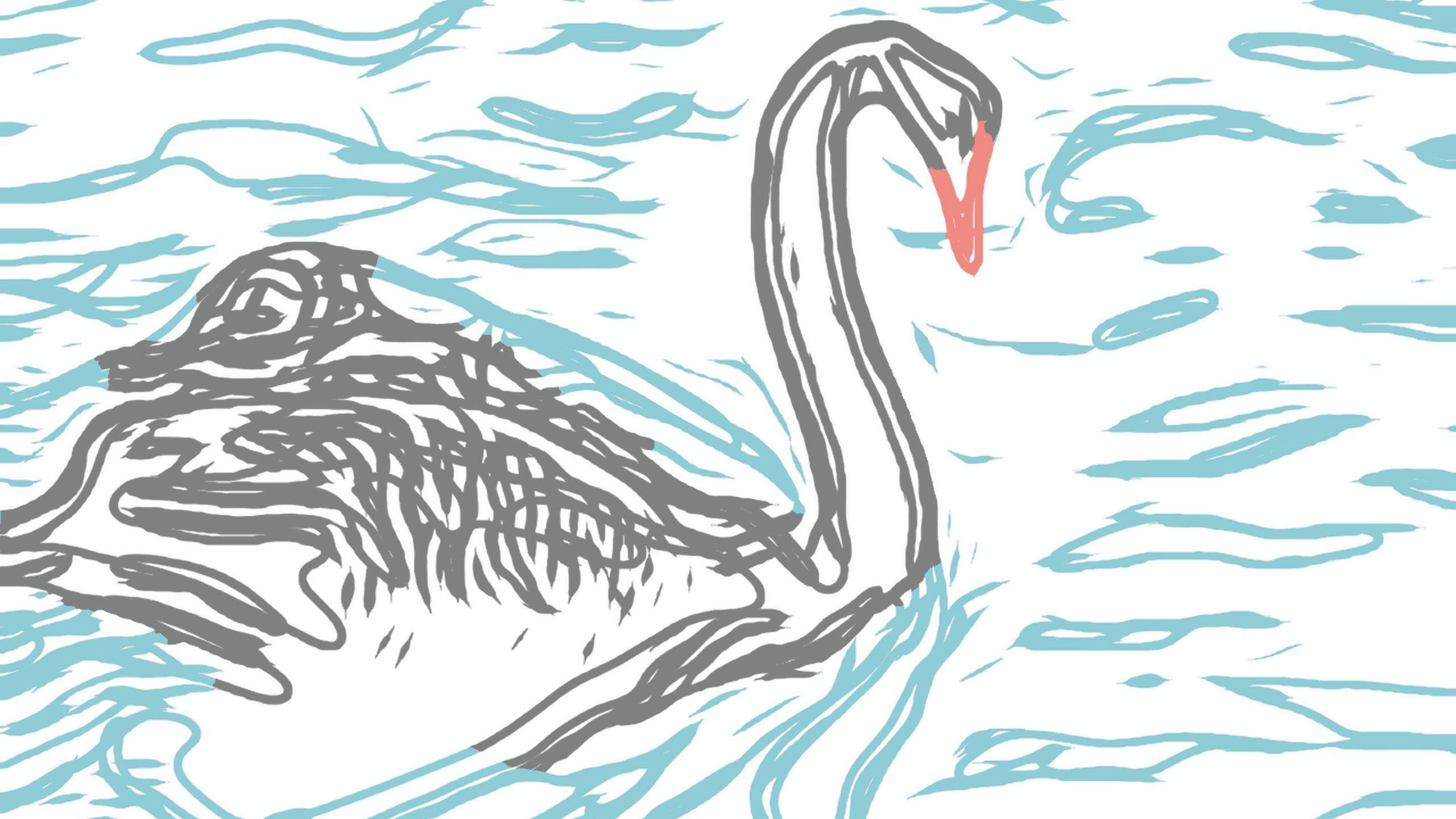
# Of Swans, Dragons, and How to Tell Them Apart (Without Getting Singed)

Ruben R. Puentedura, Ph.D.



## Black Swan Events

- Cannot be predicted ahead of time
- Have a major effect
- Can be rationalized retrospectively

"All the News That's Fit to Print,"

### The New York Times.

Tults Senate Inquiry the Yest.

Totals "Streeting."

GRUNDY FOR CURRING The Good Ambor Flor. Water KAIN REFUSES POST Amond Man, of Foot 18, Sept. Mr. Vin Stanford in A. C. F.

Will Try to Force Through Diff. Session No., 15.

IN SENATE CAMPAIGN

His Name for Trapporty Dueto 'Cristed Receptors.'

STOCKS COLLAPSE IN 16,410,030-SHARE DAY

in Trading as Sign of Buying Activity.

BUT RALLY AT CLOSE CHEERS BROKERS: BANKERS OPTIMISTIC, TO CONTINUE AID

ENERS SEE FEAR WANNE DAY hover Love STA AND ALKAND IN Month;

Slamp in Fall Exchange List Yordy Larger

and Rases Borust Balls | Charge in the New York

From \$3 to \$4.

Leading Issues Regai From 4 to 14 Points in 15 Minutes. ITMENT TRUSTS B

arge Stocks Thrown on Mark t Opening Start Their Break of Meet.

U.S. Ships Shell Iran Installation In Gulf Reprisal

Offshore Target Termed a Base for Gunboats

That's Fit to Print"

WASHINGTON, Oct. 19 - Un Sastes navel forces struck bock at Irac today for entircks on American-regis tered vessels and other Persian Gol shapping by shelling two connected of sheer platforms that American offi-cials said were a base for Iranian gue heat.

A few hours later, a naval commande delactower and commanded delactowers to a chief placiform fore miles away and destroyed radar and communications equipment, Pentagon officials said.

No American canualties were reported in the actions, which occurred 120 rates east of Bahrain at about 1 P.M. (7 A.M., Eastern daylight times).

A 30-Minute Warning

A merican officials said the stracking force stock palos to avoid killing itemises. American officials said the stracking force stock palos to avoid killing itemises, giving the crew on the first two platifiers a 20 minute warning before a plange reminiscent of the worst days of 1920, one pressing question was whether the aftershocks and the pre-Depression years. Like the sort destroyers, stationed about three

A Huge Blow to the Five-Year Bull Market



The New Hork Times State 1845, State 1845,

STOCKS PLUNGE 508 POINTS, A DROP OF 22.6%;

604 MILLION VOLUME NEARLY DOUBLES RECORD

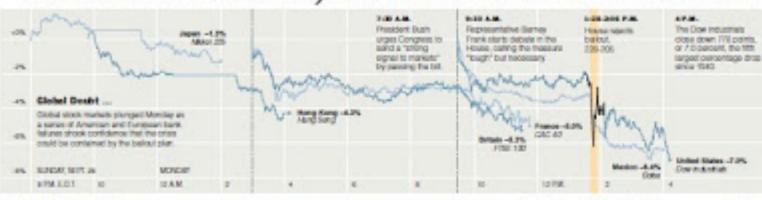
#### WORLDWIDE IMPACT

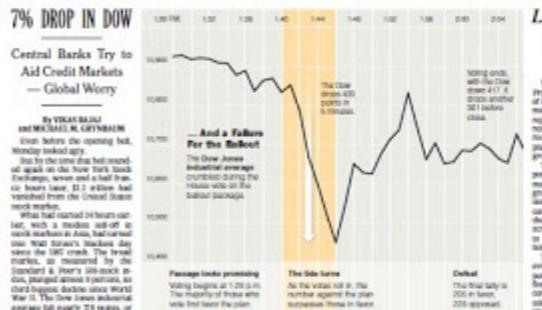
Frenzied Trading Raises Fears of Recession -Tape 2 Hours Late

BY LAWRENCE J. De MARIA Stock market prices plunged in amultuous wave of seiling yesterday, yving Wall Street its worst day in his

## The New York Times

DEFIANT HOUSE REJECTS HUGE BAILOUT; STOCKS PLUNGE; NEXT STEP IS UNCERTAIN





#### — Broad Public Anger Is Cited

WASHENCTON - Dolying in towe, many after voicing grow

Provident thath and the loaders integrings. Their normals, lame of both partner, make and the tare or flurack observe, and backed makers in the liture on Monday the bill. rejected a \$10 billion occorrai: notice plan in a nevel that fall-in-almost Tri-points, or nearly nedead the Capeal, sale tearhoot: 7 persons, so 16,54s. Clode that plunging and loft usp tawmakers least also remained distressed, graping for a resolution. With bank leading races racing

The manning datase of the pre- and inventors flooring to the sale penal on a 204-201 were after up of Troupury bills. posed on a Di-30 was after manaken sales by senior Can.

Among approximate of the transpressional and Bush administrasion officials forward a fig of us.

containly and constitute band dosorthod the measure as-essential 
to provening widespread octomic construct.

comming grapped the maxim as some just free weeks before ex-scientation showed purey leaders any was in the Hasse was up for

their causey.

The markets began to planning:
even before the Til minute wating.

This beworkers on both sales. parted capital on the House pointed to an expecting of expe-four. For 15 more minute, on. House from deeply house consta-

By the and of day, the Dow has

# BIGBETS BLACK SWANS

#### A PRESIDENTIAL BRIEFING BOOK

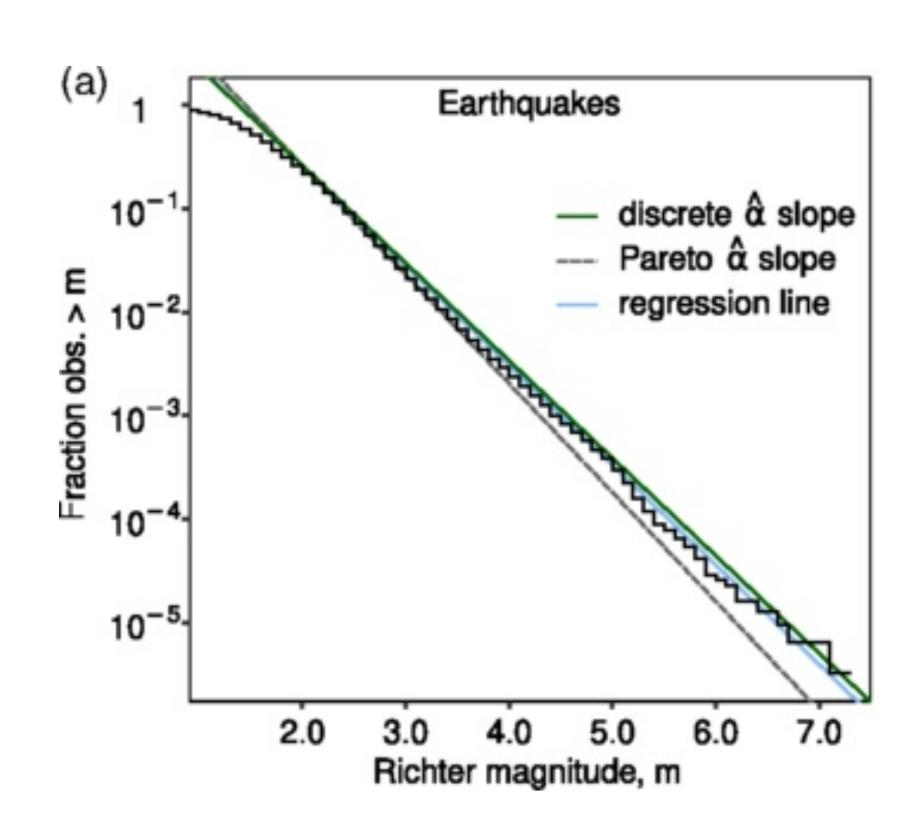
Policy Recommendations for President Obama's Second Term by the Foreign Policy Scholars at Brookings

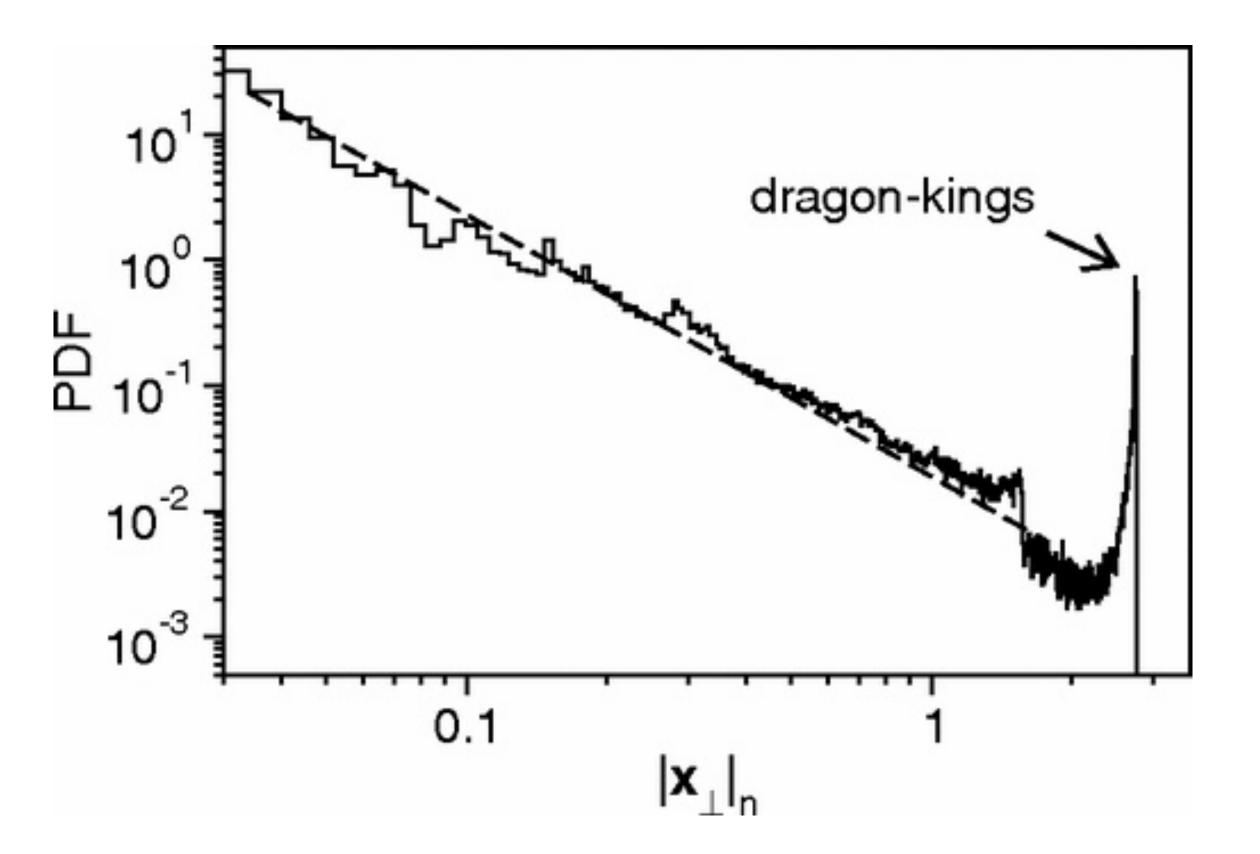
> Edited by Martin Indyk, Tanvi Madan, and Thomas Wright Project Design by Gail Chalef

> > January 2013

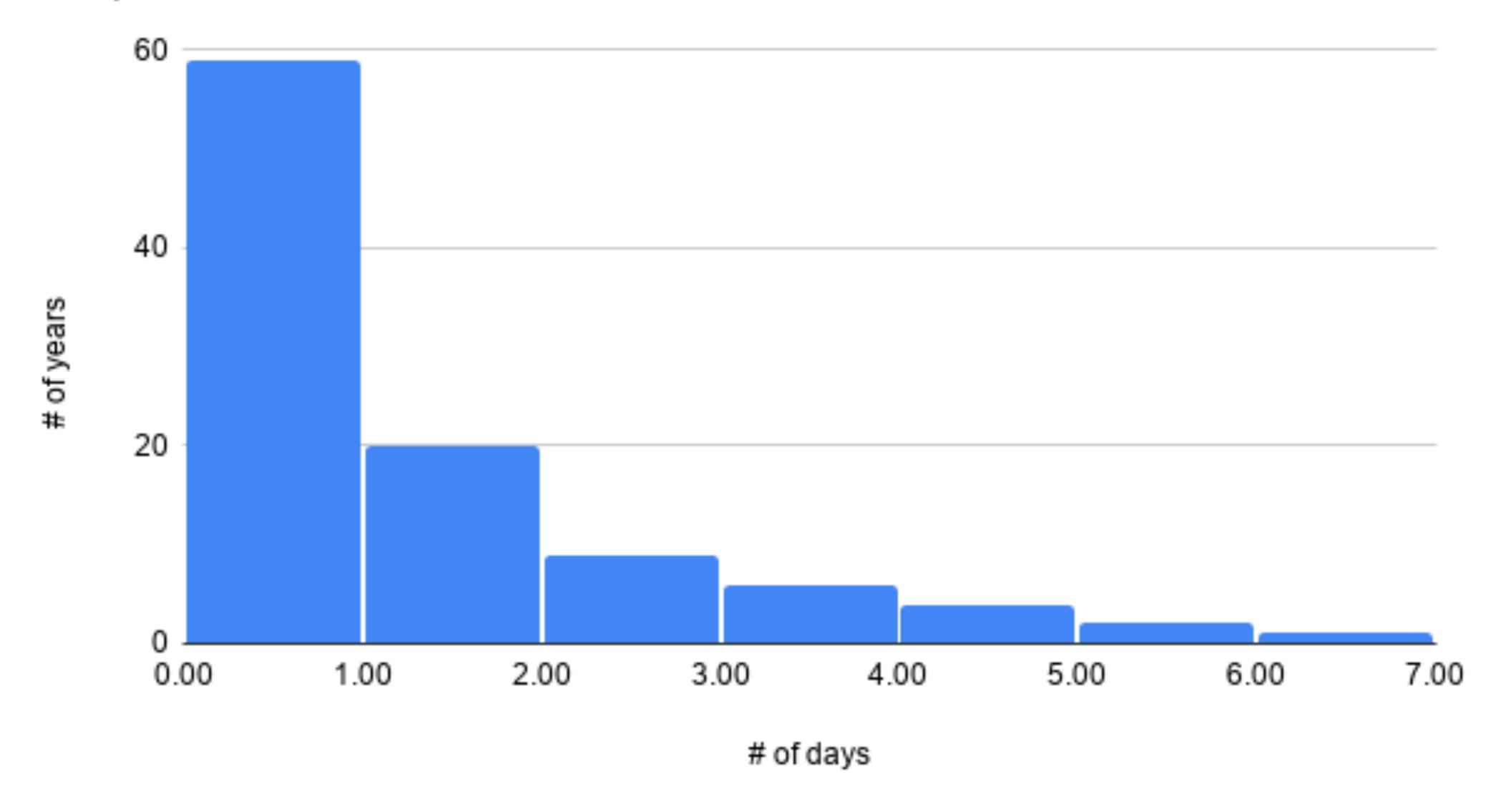
FOREIGN POLICY at BROOKINGS

# From Power Laws to Dragon Kings

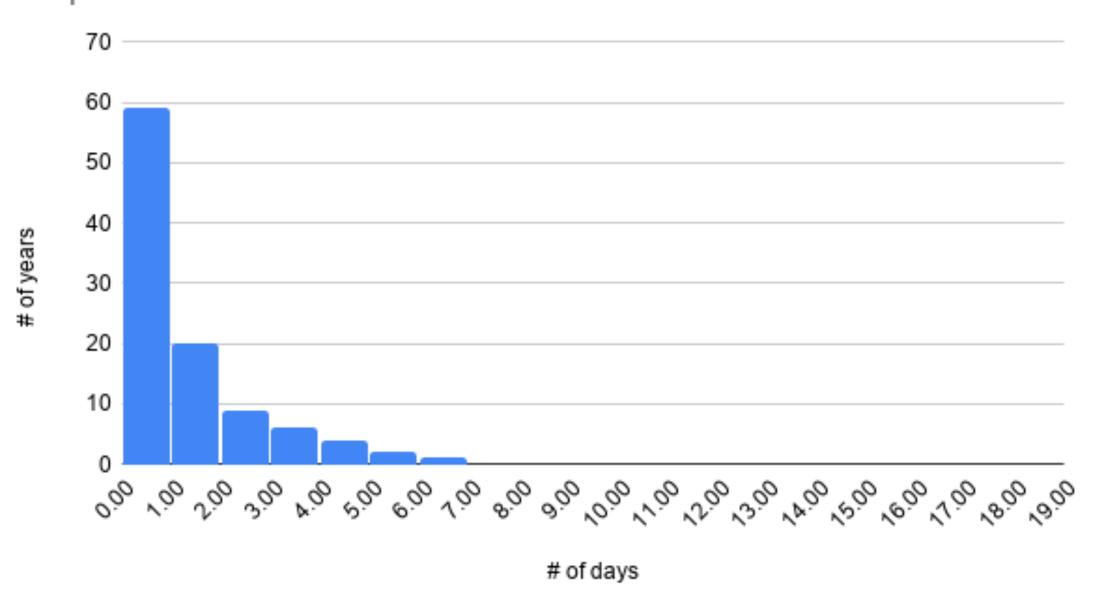




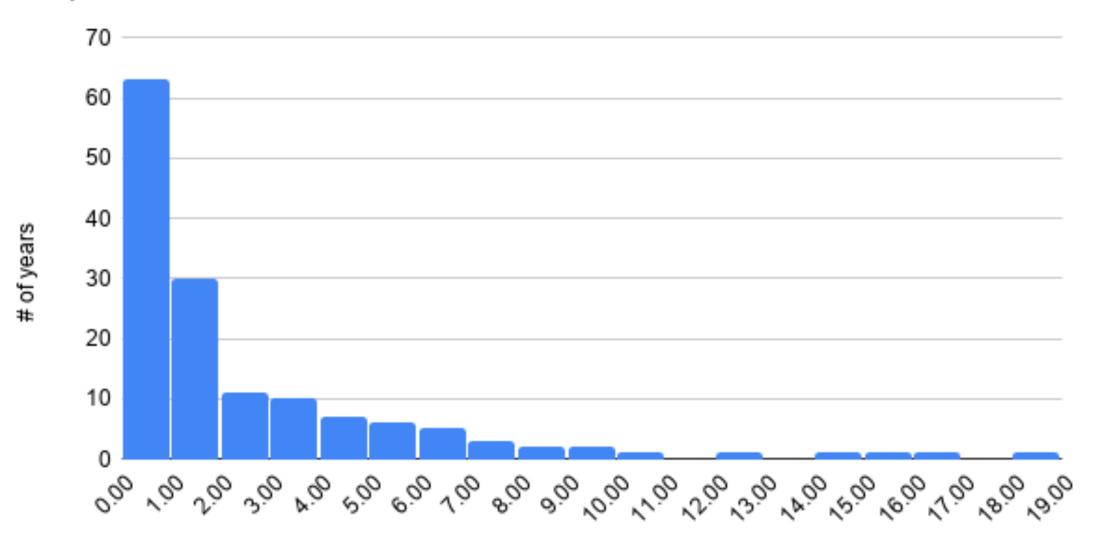
# Acqua Alta 1875-1975



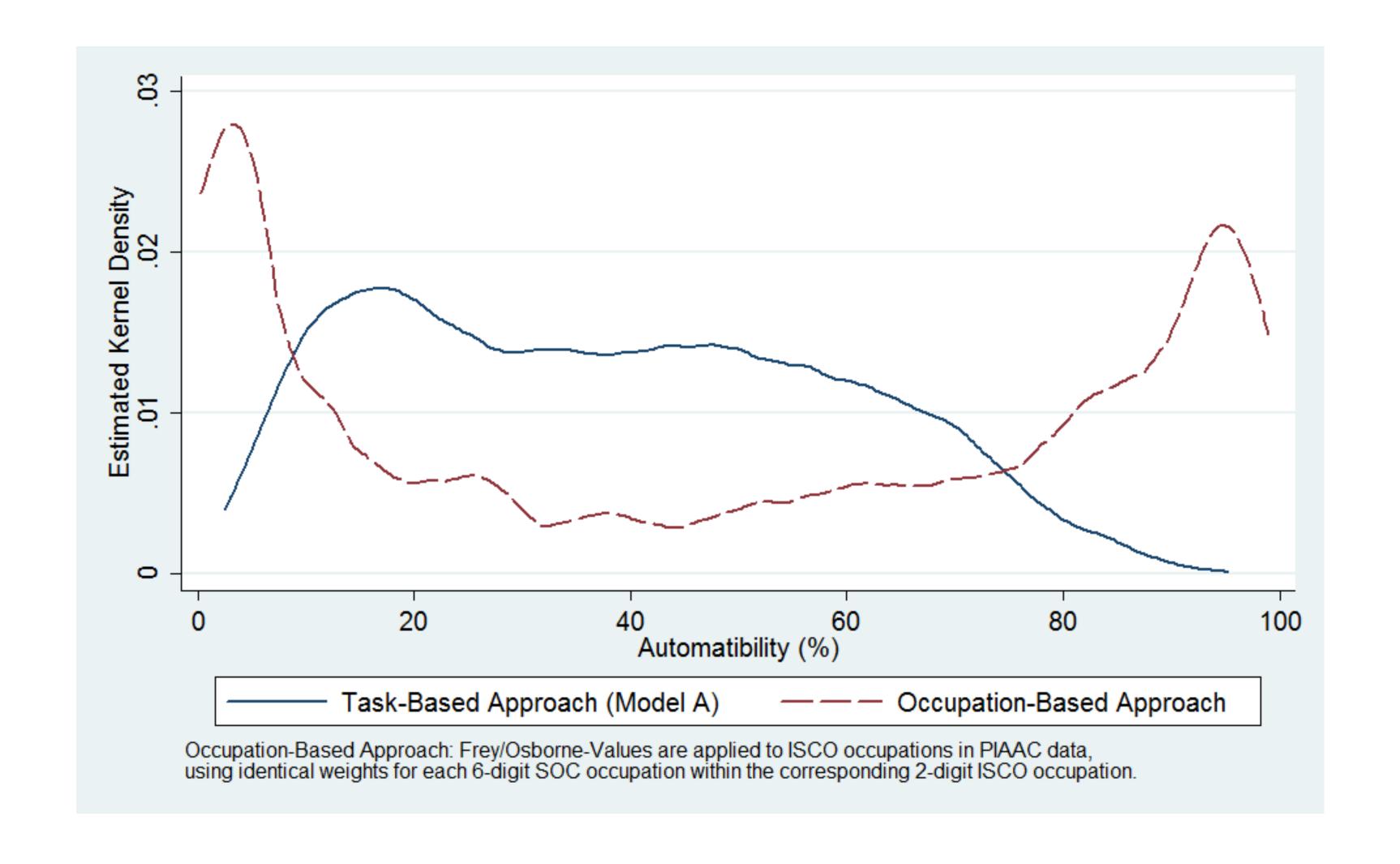
#### Acqua Alta 1875-1975



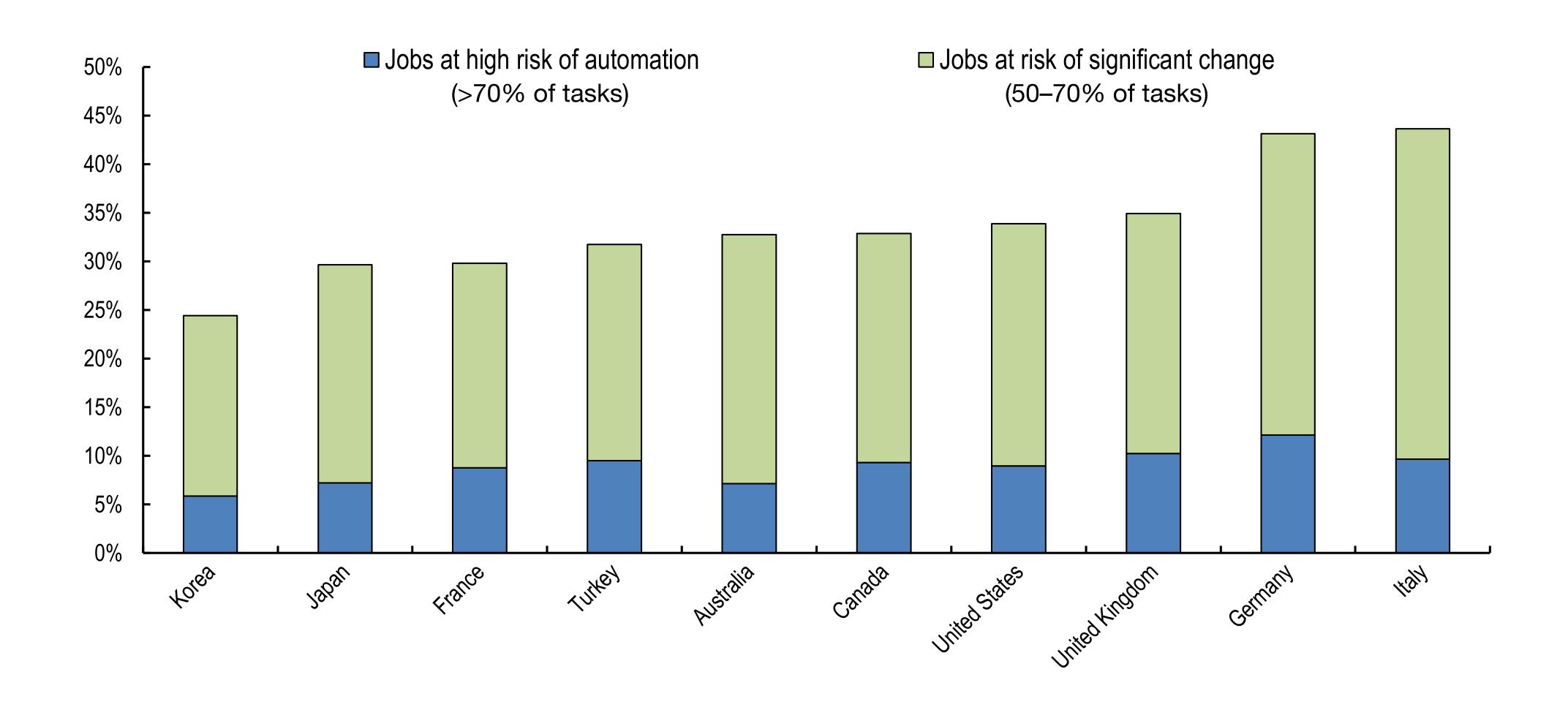
#### Acqua Alta 1875-2019

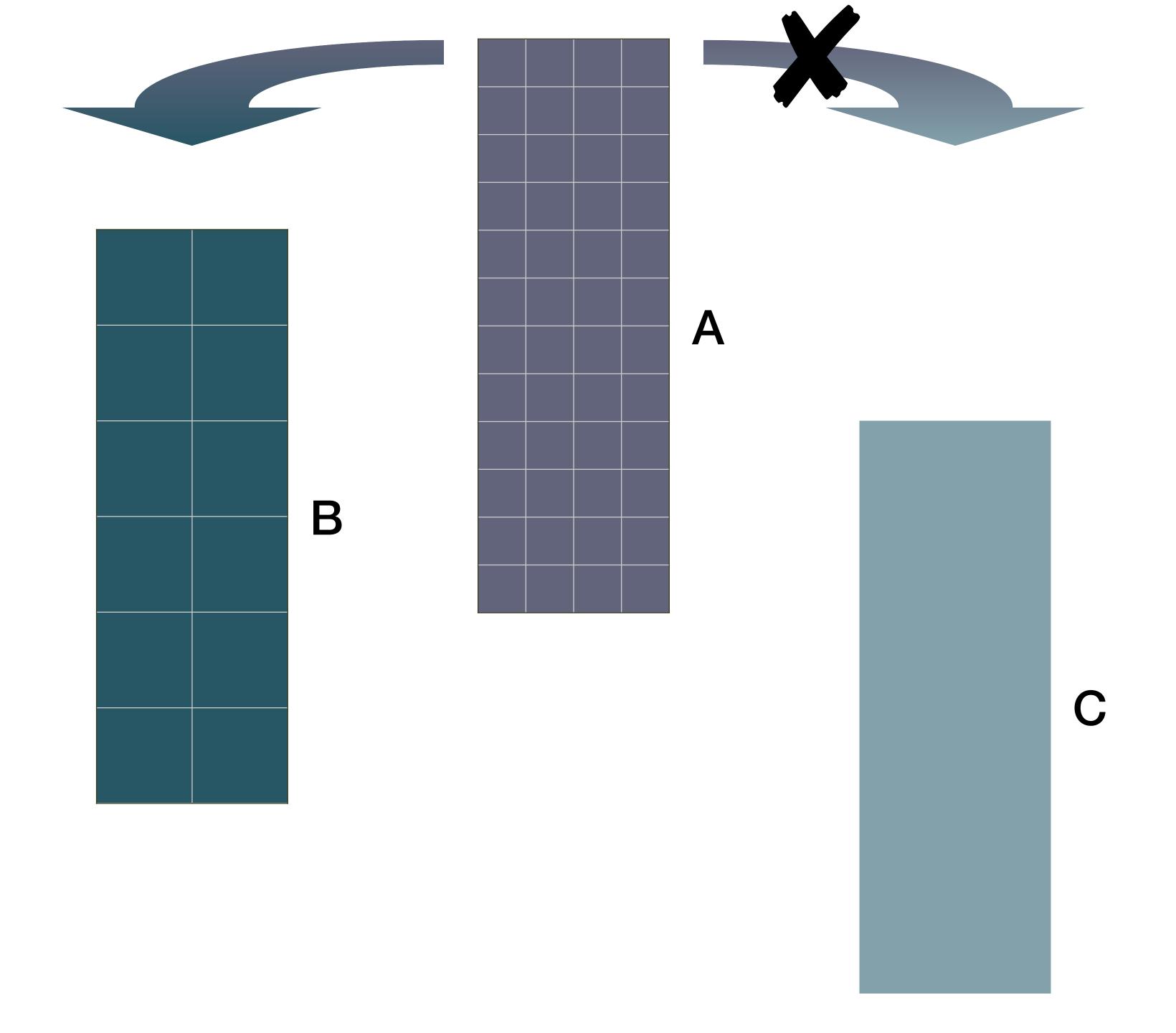


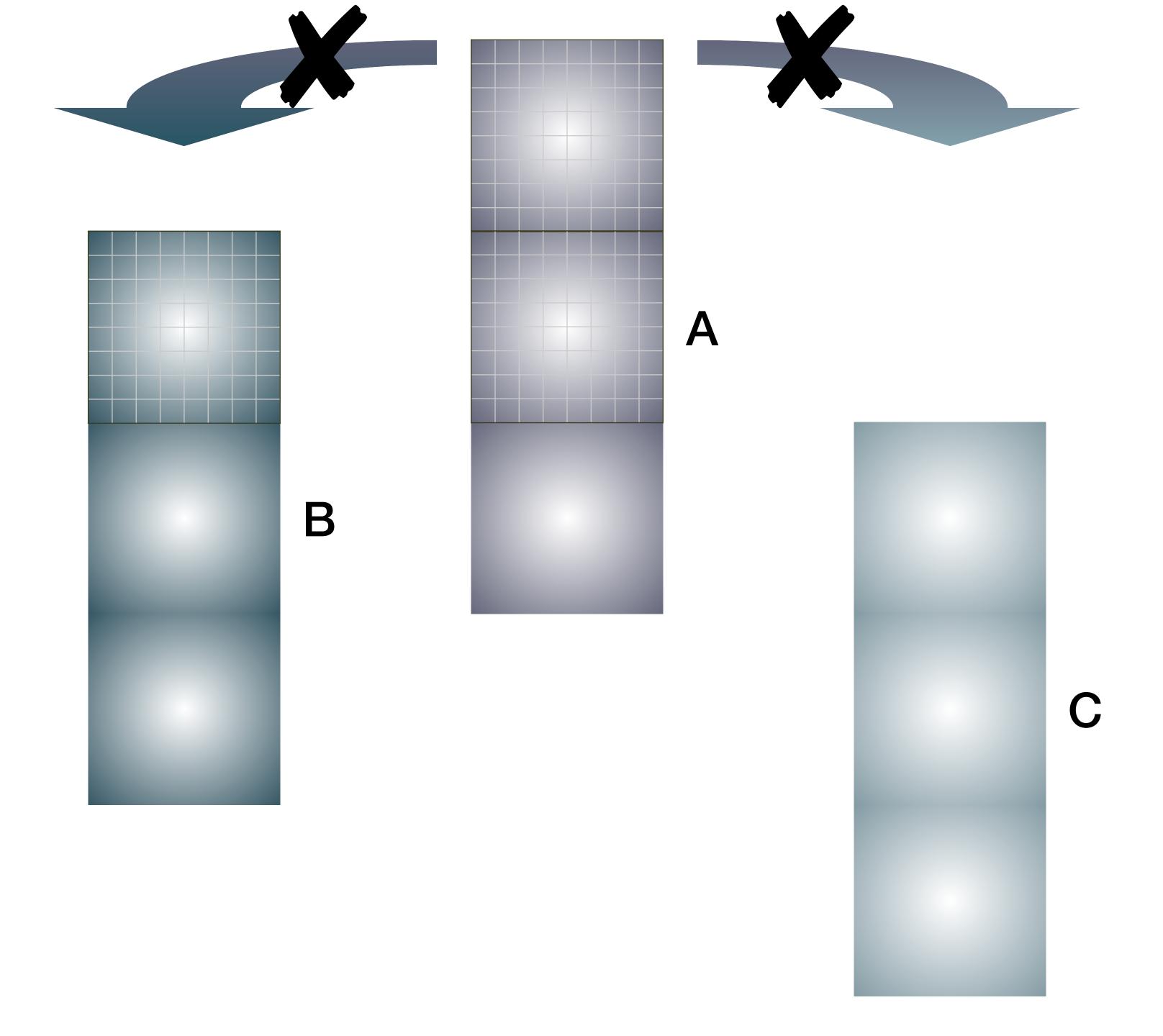
# Distribution of Automatibility in the US (Task-Based vs. Occupation-Based Approach)



# Advanced G20 Countries: Jobs at High Risk of Automation

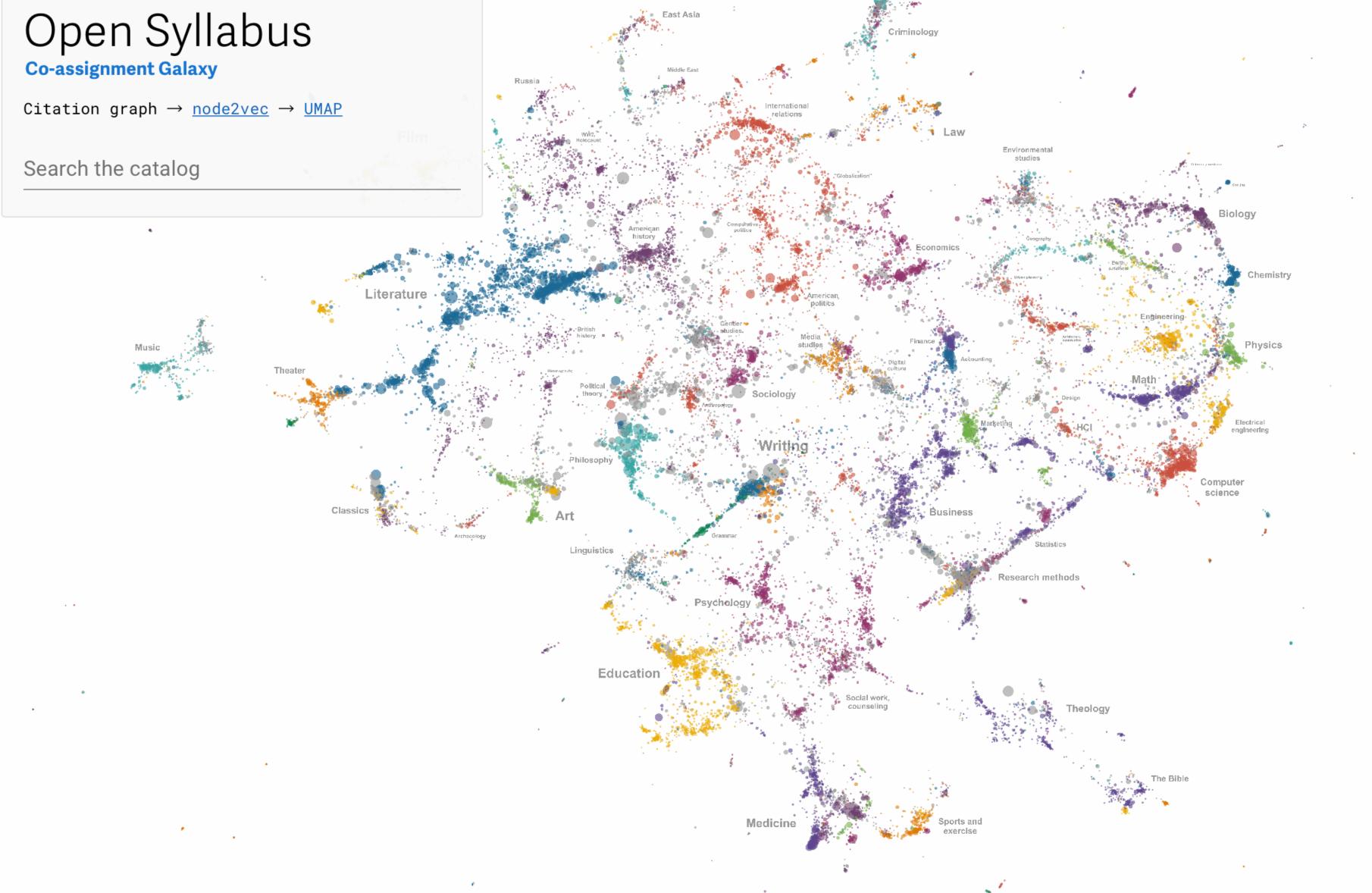






"Gakushiryoku - ability required for university graduates for an unpredictable era including the education, knowledge and experience to make correct decisions in the face of unexpected difficulties."

MEXT - Summary of Report: Towards a Qualitative Transformation of University Education for Building a New Future - Universities Fostering Lifelong Learning and the Ability to Think Independently (2012)

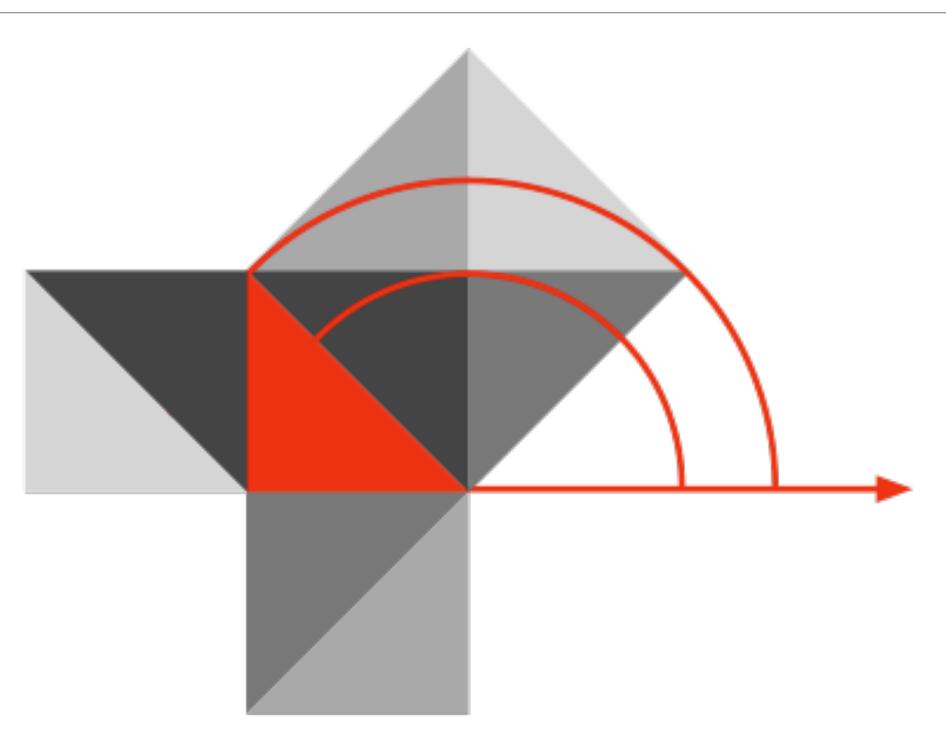


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You are Maxwell's (Silver Hammered) Demons. Your attempts to overturn the Second Law of Thermodynamics having been repeatedly foiled by the academic community, you resolve to bring the whole edifice of academe crashing down, by creating conditions propitious to a Black Swan or Dragon King event. You decide to begin by destabilizing the network of scholarship that is embodied in the co-assignment of texts in college courses. Which texts do you delete/ add/separate/bring together - and why? A map to help you in your task can be found at http://galaxy.opensyllabus.org

# Hippasus



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