

## Behavioral Economics Modeling Al Services

#### A Pathway to Year-Round Fundraising Optimization

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#### Michael Gorriarán

President & CEO, Arjuna Solutions

- > 5+ Years, Arjuna Solutions
- 30+ Years Microsoft, Xerox
  - Advanced Tech Solutions & Services Business Leadership
- USA, LATAM, Europe, Global Leadership Roles
- MBA, Kellogg School of Mgt, Northwestern U.
- Former Chairman, OCHA
  - Oregon Council Hispanic Advancement 501(c)(3)



#### Fundraising Decisions-as-a-Service Business for Nonprofits

Founded by a Professor of Decision Sciences, Johns Hopkins University

2013 Established in Business as an LLC

2013 Patents Awarded for Al Capabilities in Consumer Pricing. R&D for ~4 years.

2018 Available to all Nonprofits for Direct Response Fundraising \$5-\$10,000.

2023 5 Years Domain Expertise: Al Service Development and Delivery.

2023 10B+ Records Processed. \$125M+ in Donations Influence.



## Agenda

- Understanding Donor Sentiment
  - 1. Focus on growing net proceeds
  - 2. Optimize donor lifetime value
  - 3. Personalize relationship investment decisions at scale
  - 4. Find new value in lapsed donor campaigns
  - 5. Measuring fundraising performance



## Today's Fundraising Environment

Poll Question #1:



#### **Audience Poll**

Is Inflation Affecting Fundraising Performance?

- a. No what's inflation?
- b. No not yet, but we see it coming
- c. Yes it's becoming an increasing issue
- d. Yes it hurts!





#### Fundraising Environment

#### Post-COVID-19 Vaccinations: Q4 Spending +

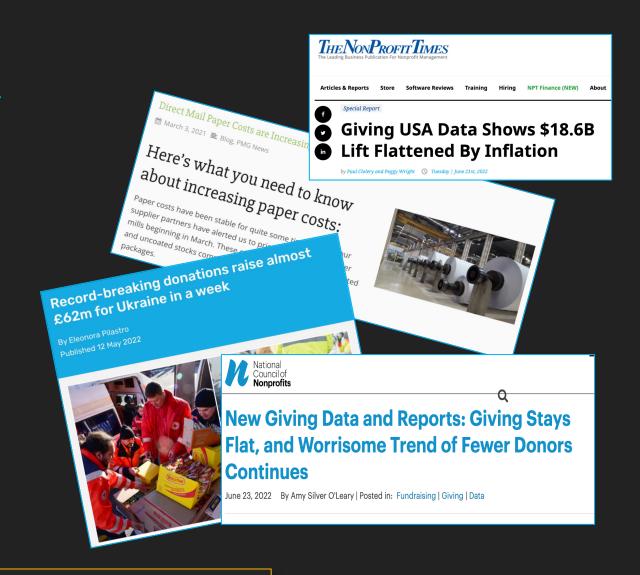
> \$\$\$+ entertainment, dining, clothes, travel, cars...

#### Inflation

- Less disposable income
  - Donor elasticity declining <\$75</li>
  - Donations < \$100 Annually (73% Pop.)</li>
- Fundraising cost increases
  - Direct mail: rising cost of paper, envelopes, postage, freight, labor (+15% to 20% YoY)
  - Digital: increasing cost of platform, apps, integration, ongoing management and labor

#### Episodic giving increasing +

> War, courts, laws, natural disasters, social



Fewer donors. Smaller gifts. Net-negative growth after Inflation



## 2 Optimize Donor Lifetime Value

- Retain Donors
- > Know Precisely How Much to Ask Now
- Advance Donors Across Donor Segments



#### Audience Poll

#### How Do You Determine Gift Array Values?

- a. MRC or HPC x Multiple (1.0, 1.5, 2.0)
- b. Wealth Screening / Capacity to Give
- c. "Segment of One" Personalization
- d. Other





## Improve Net Proceeds from Fundraising

Enhance Lift in Annual Giving +12% Avg.



Optimize
Lifetime Giving

3X-5X of Year One Gain



Advance Donors Across Segments

11% Faster



Reduce Cost Per Dollar Raised

10%-30% Cost Reduction





## Fundraising Methods

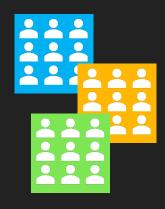




Requires a One-to-One "Ask"

Deep Relationship Cultivation

Useful for Substantial Giving



#### **Broad Giving Segments**

Standard Gift Arrays (RFM)

Transactional Relationship

Useful for Simplicity in Fundraising



#### Segment of 1 @ Scale

Individually Optimized Gift Arrays
Personalized Giving Insights at Scale
Useful in optimizing lifetime giving

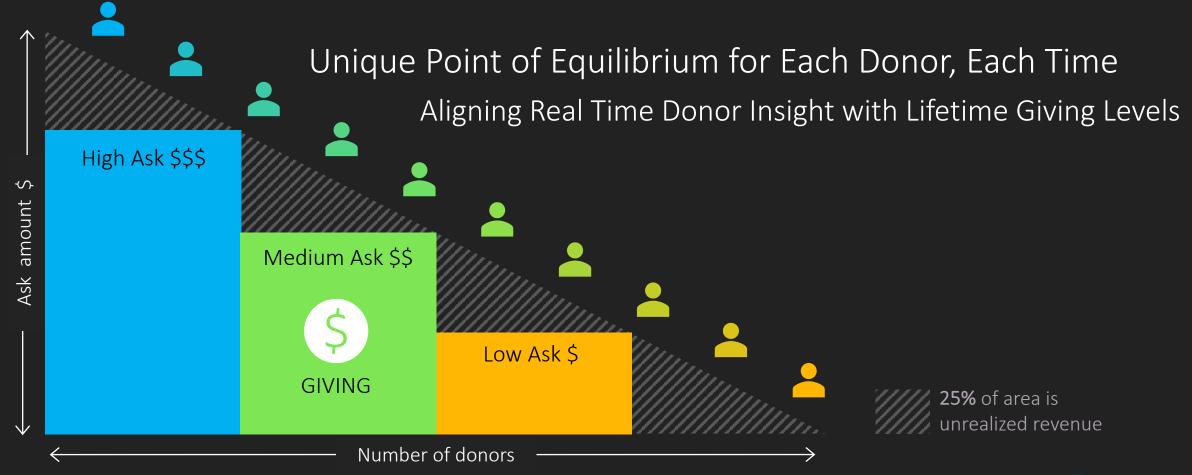
Dynamic Personalization and Optimization at Scale



#### Improve Giving Levels

**Problem:** Suboptimized Giving Performance

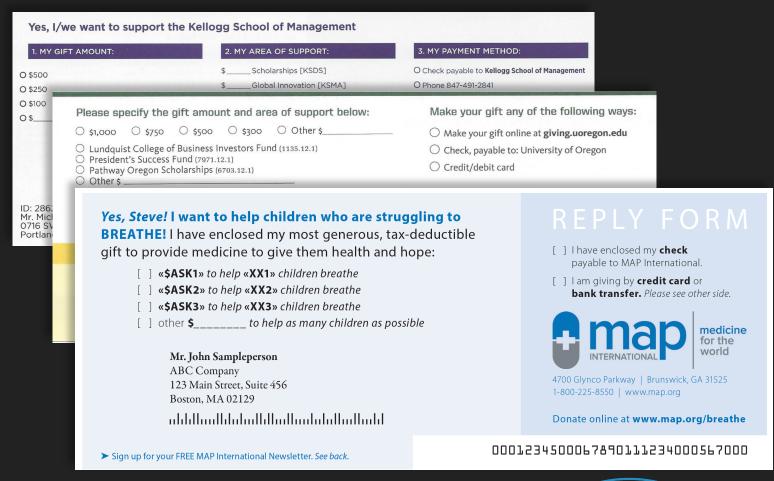
Solution: Personalized, Optimized, Time Sensitive, Gift Array Values



#### Dynamic Personalization and Optimization at Scale

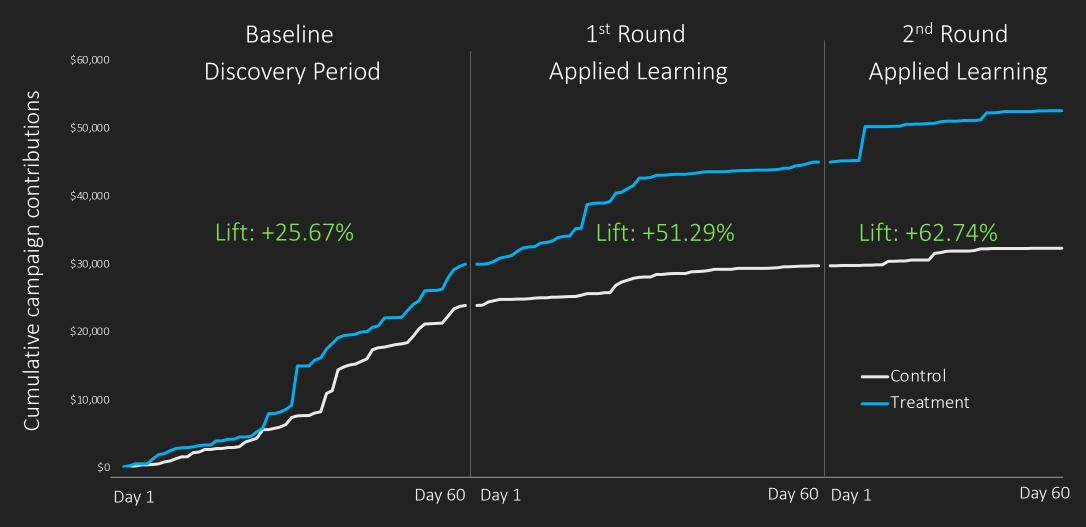
## Donor Experience Gift Solicitation Channels DIRECT MAIL ONLINE REGISTERED USER EXPERIENC **EMAIL TELEMARKETING** SMS/TEXT

#### Speculating vs. Knowing





## BEM-Al Learning Cycles



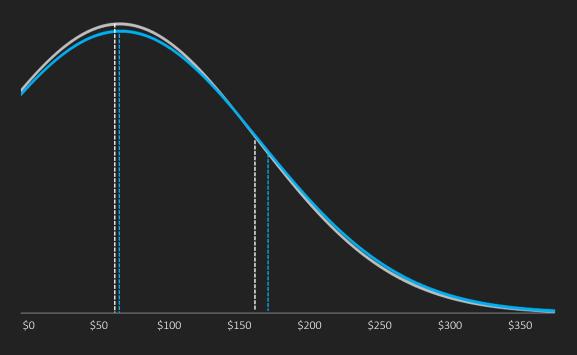
Total Investment of (\$5,936) Produced an Incremental \$22,919. ROI = 286%



## Influencing Behavior: A Statistically Material Shift

Three-year Avg. Donor Giving Behavior Distribution of Historic Control vs Treatment

Gifts After Al Treatment Distribution of Pilot Time Period Donation Amounts



Control Group Avg Single Gift Stdev \$68.38 \$94.49

Treatment Group Avg Single gift Stdev \$69.18 \$96.91



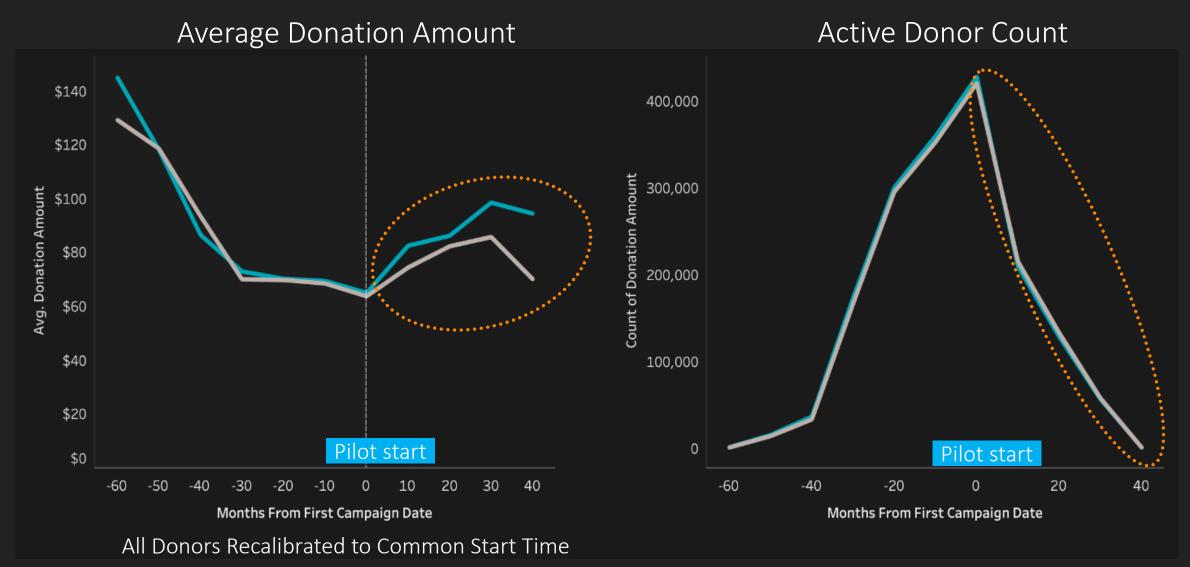
Control Group Avg single gift Stdev \$53.21 \$81.53

Avg Single gift \$56.75

Treatment Group Stdev \$112.33



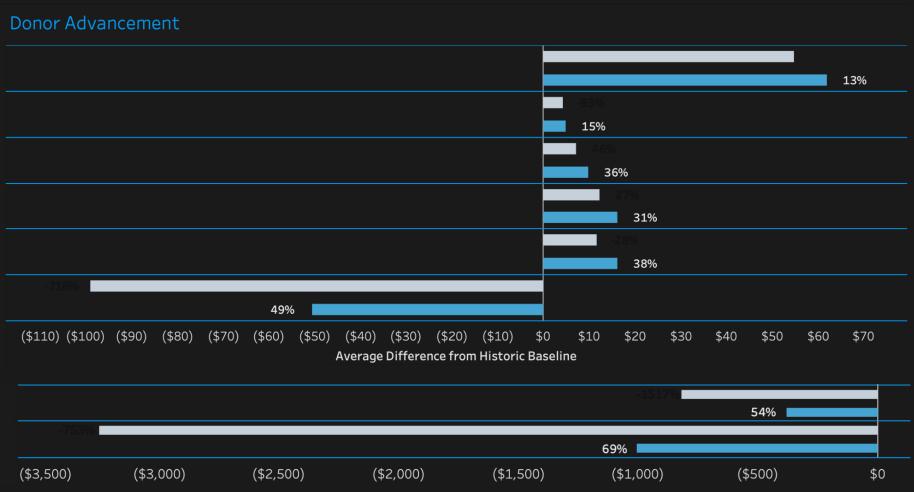
## Optimize Donor Value While Maintaining Retention





#### Donor Advancement Across Giving Segments







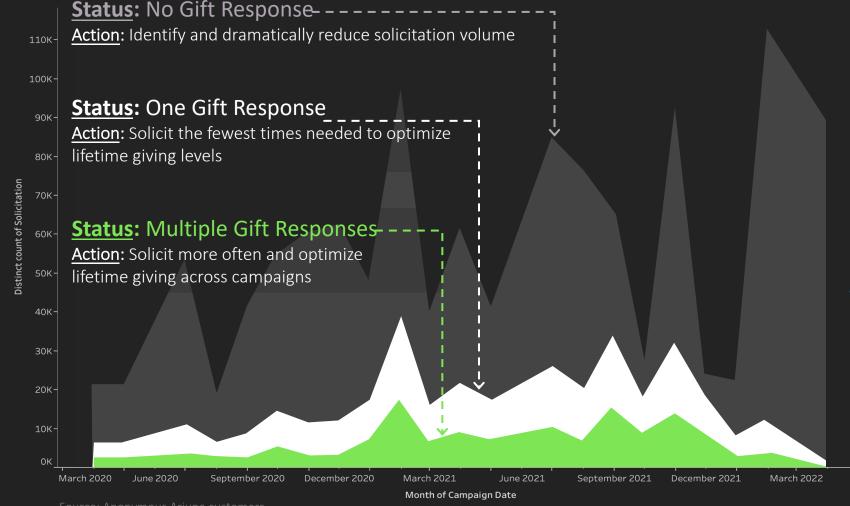
# 3 Personalize Relationship Investment Decisions at Scale

- Optimize Donor Solicitation Cadence
- Reduce the Cost-per-Dollar Raised
- > Enhance Brand Equity



#### Personalize, Optimize Individual Solicitation Investments

Improve net proceeds available to invest in mission



#### **Response Statistics**

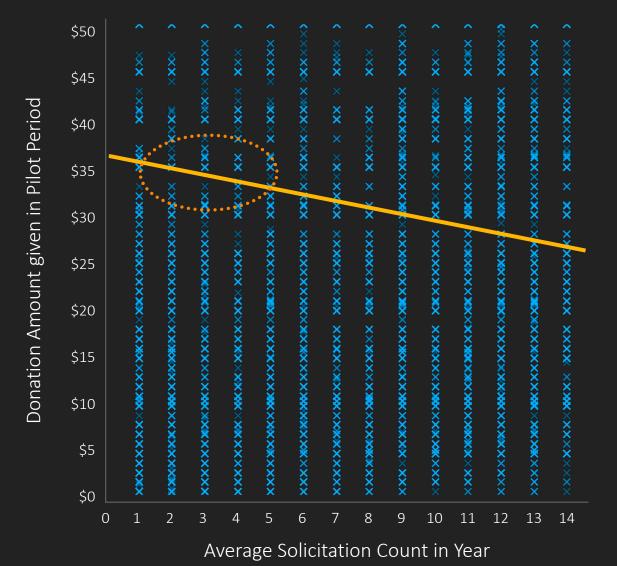
- > 93.9% of solicitations produce \$0
- 69.8% of solicitations sent to individuals who did not provide donation

## Reduce Solicitation Volume (10%-30%)

- Keep donors engaged
- Sustain brand equity
- Reduce cost per dollar raised
- Minimize carbon footprint

ource: Anonymous Arjuna customers

## Dynamically Personalize Individual Solicitation Cadence



More Solicitations
Produce Less Money

Personalize Solicitation Decisions

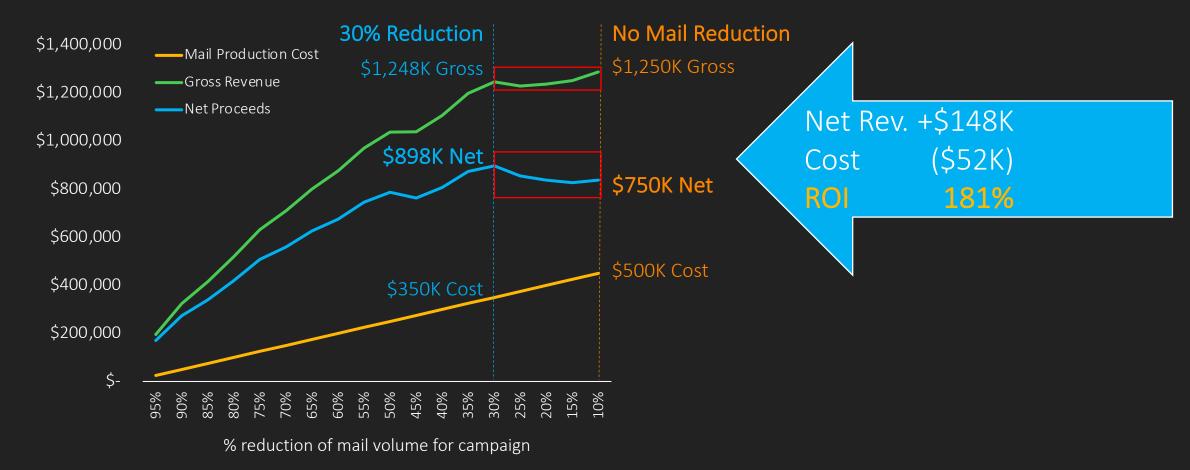
Improve Fundraising Performance

Preserve Brand Equity



## Implementing Monthly Solicitation Volume Optimization

#### Sustain Gross Revenues While Reducing Costs





4
Find New Value In Lapsed
Donor Campaigns

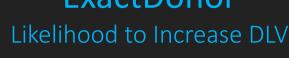


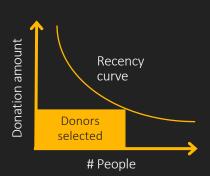
## Lapsed Reactivation Optimization

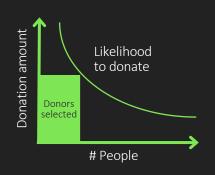
#### Recency Latest Gift

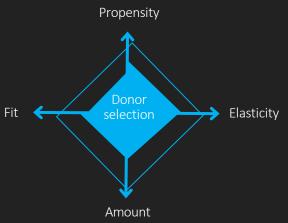
#### **Propensity** Likelihood to Donate

## ExactDonor



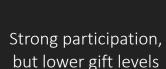


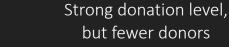


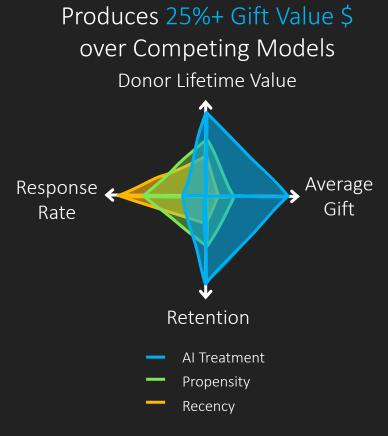


Multi-Dimensional Behavioral Modeling

Calibrated through High Volume **Learning Cycles** 







Lapsed Campaign: Donor inactive for 25 - 59 months



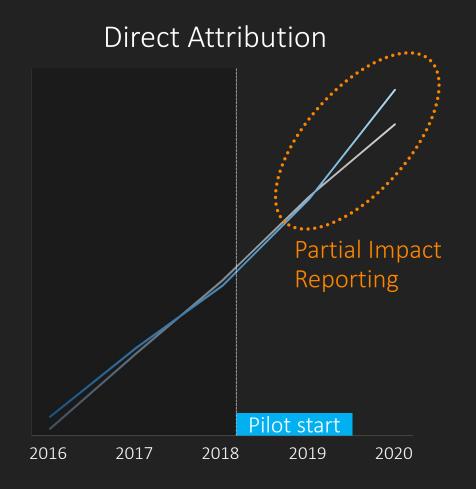
## 5 Measure Performance

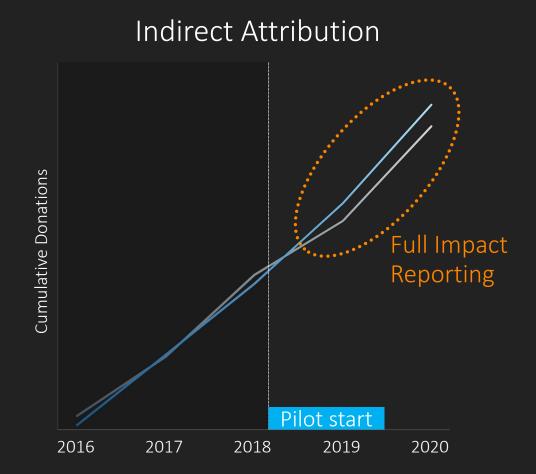
- Holistically
- Objectively
- Transparently



#### Measure and Win as an Enterprise

Direct and Indirect Influence Optimize Donor Behavior





Source: Anonymous Arjuna customer in Multipurpose Human Services sector

#### Re-evaluate Budget Setting

#### Zero-Based Budgeting

> Brought Forward by Today's Environment

#### Apply Zero-based Budgeting Methods/Philosophy

- > Start with zero every year, and justify each dollar:
  - Strategic Value scoring: Project Impact, Risk, Viability, ROI / IRR% Stack
  - Build Project Business Cases: Approved and Evaluated in Annual Review
  - Quarterly Reevaluation & Reallocation of \$\$\$

#### Be Transparent and Consistent with Budget Criteria

- Measure upside in revenue and cost elimination uniformly
- Apply consistent up/downside risk rates factors
- Define mandatory compliance and discretionary spending



## Summary

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Teşekkürler Hvala Tack متشكرم Cám ơn Obrigado Ďakujem благодаря Salamat Po நன்றி Grazie ध यवाद ευχαριστώ дякую 谢谢 감사합니다 Thank You! شكراً Dziękuję Gracias Danke ขอบคุณครับ Dank u Wel תודה ありがとうございます Terima Kasih Mulţumesc Köszönöm Tak Kiitos 多謝晒 Děkuji спасибо





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