# Using Header Bidding to Improve Yield and Audience Acquisition

Mather: symposium 2017

## A Bit About Me

- Stephen F. Johnston Jr.
- Founder/CTO PubWise
- PubWise provides real time data analytics for programmatic monetization and streamlines the ongoing management of header bidding deployments.
- > 20 years web development
- > 10 years in online publishing



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## Covering Today

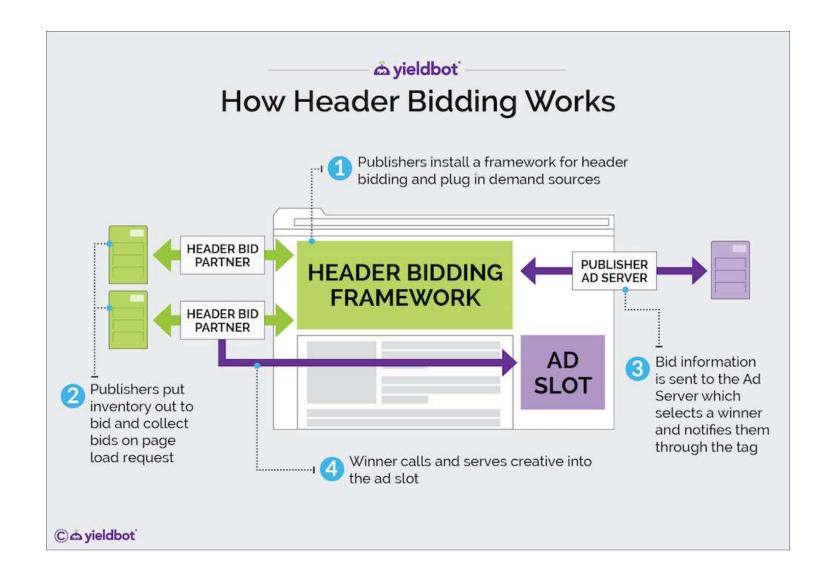
- What is Header Bidding
- Why is Header Bidding Different?
- What Data is Available?
- Yield Improvement
- Audience Acquisition
- Wrap up & Questions
- If you have questions, ask!

## What is Header Bidding?

Say Goodbye to the Waterfall

## Basics of Header Bidding

- I. Runs As Javascript in Browser
- 2. Manages Ad Loading While:
  - Captures multiple bids
  - 2. Organizes multiple bids to determine winner
  - 3. Modifies bids based on criteria
- Passes Winner to Ad Server
- Ad Server price priority logic runs with HB price in competition



## Wrappers

### Remove Integration Work

Provides code to interact with Demand Partners, RTBs, SSPs, Networks etc.

## All HB Requires Setup

- Ad Server Setup
- > 2,000+ Line Items

## Approximately 20 Available

- Only a Few Widely Used
- Prebid.js
- PubFood
- Header Tag
- Header Suite

## Other Aspects

### Latency

- Latency is tunable to revenue capture
- It's not new, passbacks, etc.

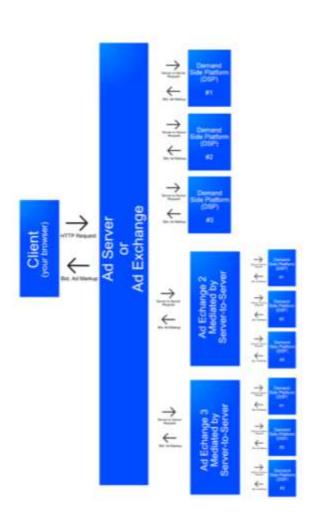
#### Server to Server - S2S

- It does reduce latency
- Cookie data is poor
- More interactions, complexity, less direct
- Introduces new form of discrepancy
- Not a counter to header bidding, S2S is complimentary

#### Header Bidding

#### Server to Server





# Is Header Bidding Really Different?

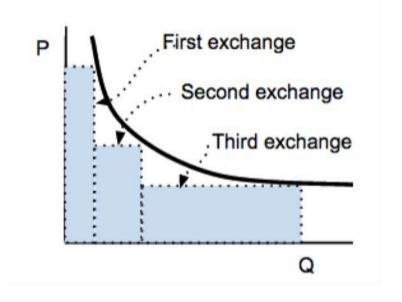
It's More Than Just Another Form of SSP!

## Where the Magic Happens

- Eliminates Passbacks
  - Greater overall fill
- Flattens Waterfall
  - Greater overall eCPM
- Reduces Discrepancies
  - Greater fill, reduces loss

### Effect on the Waterfall

Each Waterfall Step is Lost Revenue



#### WATERFALL AUCTION

#### **HEADER AUCTION**



## HB Effect on Google

- How does Header Bidding provide lift?
  - HB lift effect not limited to HB Fill
- Google Sees Everything in the Ad Server
  - Header Bidding best bid enters ad server effectively as a reserve against other sources of demand
  - Header Bidding provides a real reserve that will actually fill at that price if Google passes
  - Programmatic stack/waterfalls provide only an approximate reserve which leads to inefficient monetization

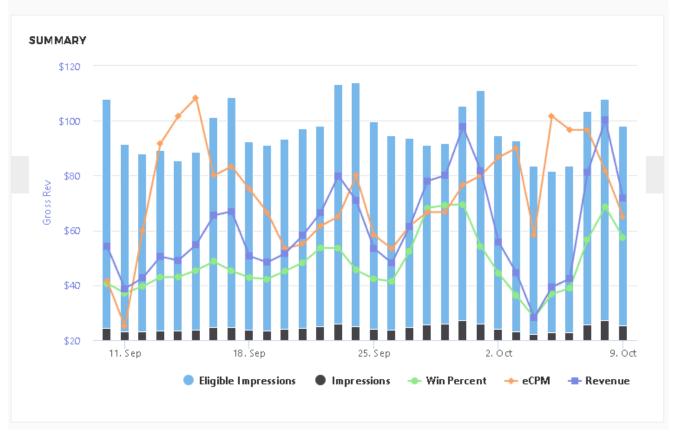
## What Data Is Available?

Lots of Advertising Value Data - In RealTime

## Data Available

- Bid Data
- Wins & Losses
- Position
- Size
- Response Time
- Any Data You Add
  - UTM
  - Custom Parameters
  - If supported in reporting

\$1,812.75 \$2.72 667,231 11,472,047 5.82% Win %



## **Analytics Events**

- Prebid.js
  - Most Robust Analytics
- 5 Relevant Events
  - Auction Start
  - Bid Requested
  - Bid Response
  - Win
  - Timeout

## Bid Data is High Volume

## Typical Event Volume for 4 Ad Units

## 18-24 Events/Pageview

#### **Typical Page Load**

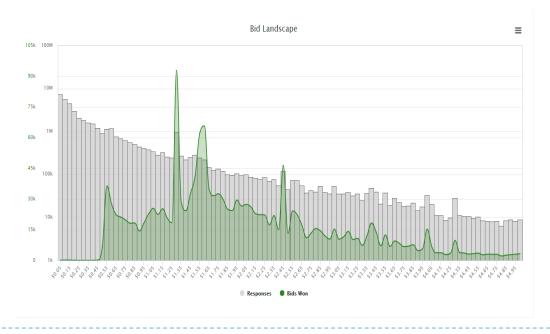
- 4 Ad Units
- 6 Bidders

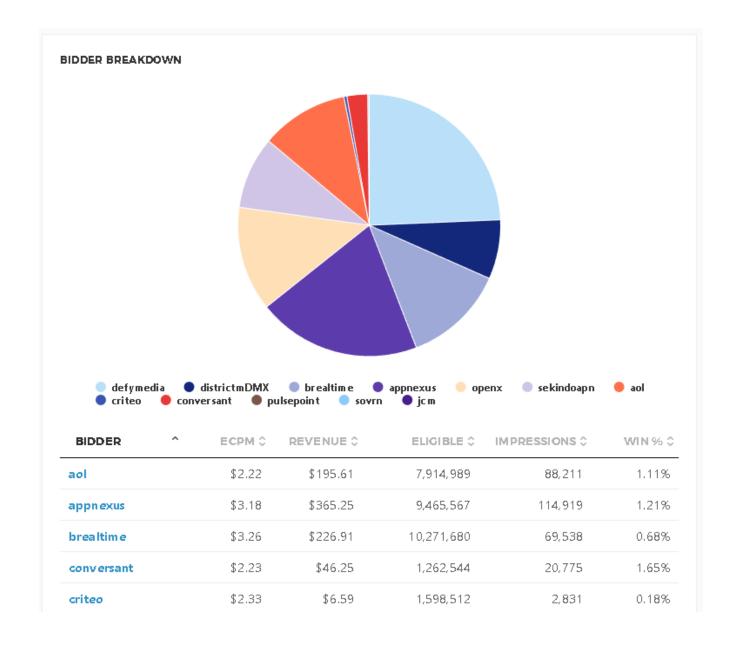
#### **Event Volume**

- I Auction Start
- ▶ 6-24 Bid Requests
- ▶ 6-24 Bid Response
- ▶ 0-4 Win
- ▶ 0-24 Timeouts

## Bid Data Covers Critical Information

- Bid Landscape
- Win/Loss Rates
- Participation
- In Your Hands, Not the SSPs





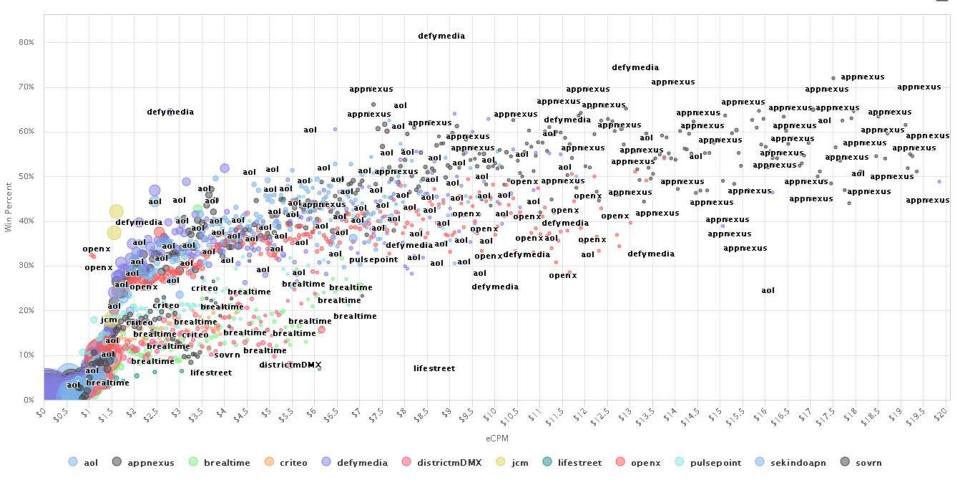
## Increasing Yield

Revenue is Fundamental, Increasing Revenue is Key

## Initial Setup is Key

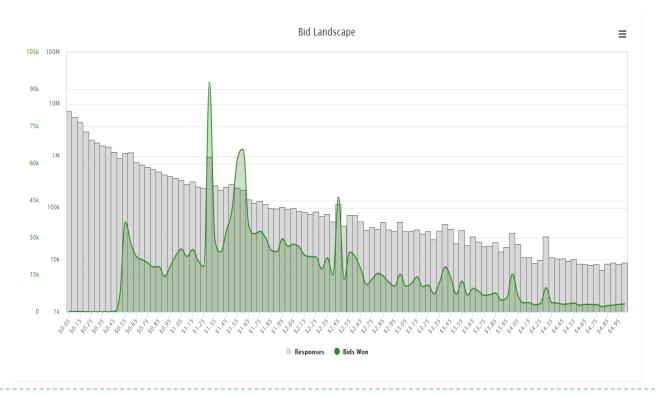
- 5-6 bidders
- Different demand curves
  - each demand partner bids differently
- Existing DFP price priority line items provide floor
- Start small, measure, increase

eCPM vs. Winrate



## Waterfall Improvements are First

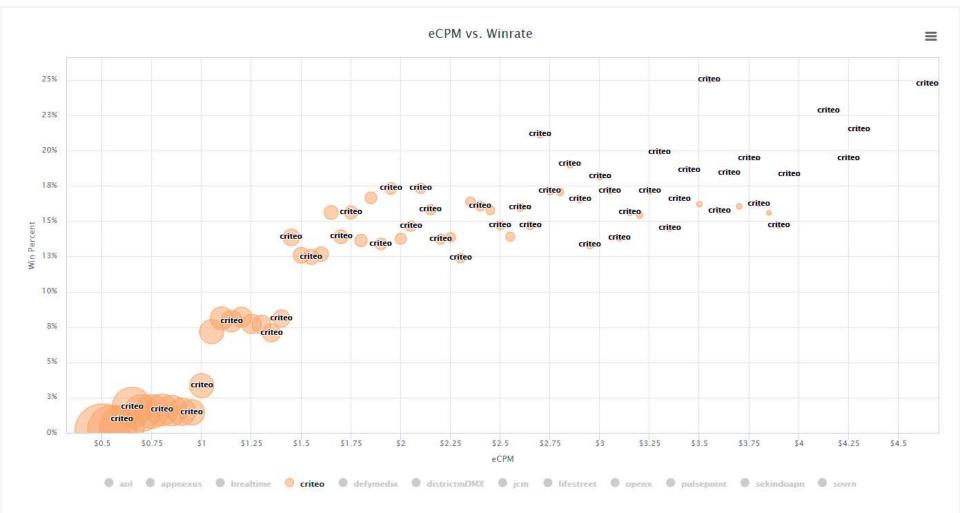
- Top of Waterfall Provides Floor for Header Bidding
- Push Waterfall Down in Price to Open up Demand
- Reporting Can Help Verify Setup



## Partner Performance

- Understand how each partner is performing
- Is there high degrees of bid overlap? Could you remove a bidder with no effect on revenue?
- Do you have a "hole" in demand? No bids over X, no bids under Y.
  - Unlikely to be completely missing, but worth evaluating.

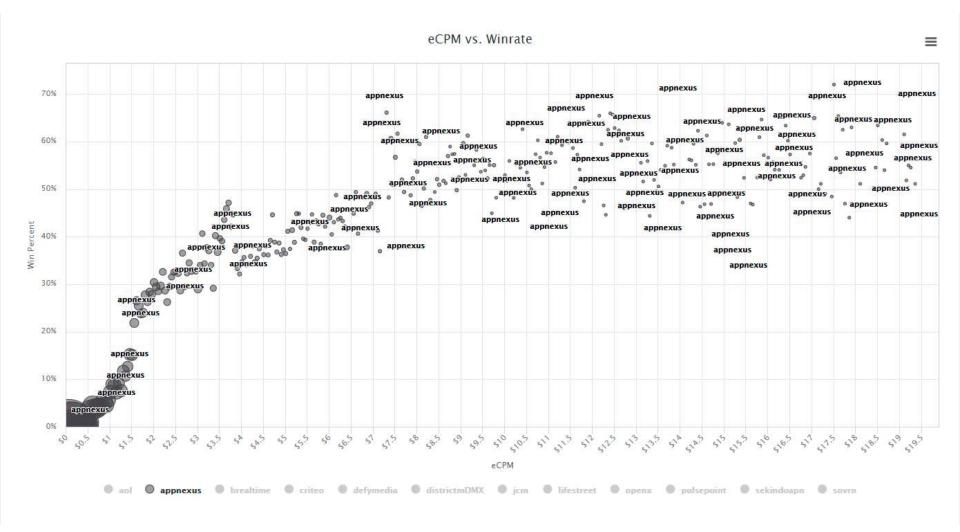
#### A solid all around bidder primarily in the under < \$5.00 range.



#### This bidder is not very strong, but do they have unique demand possibly?



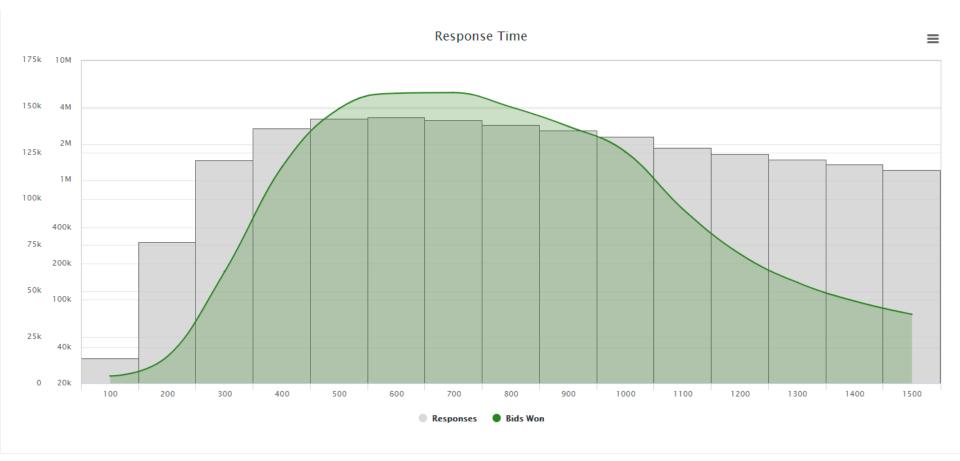
#### A robust bid profile. Solid bidder up to \$20.00.



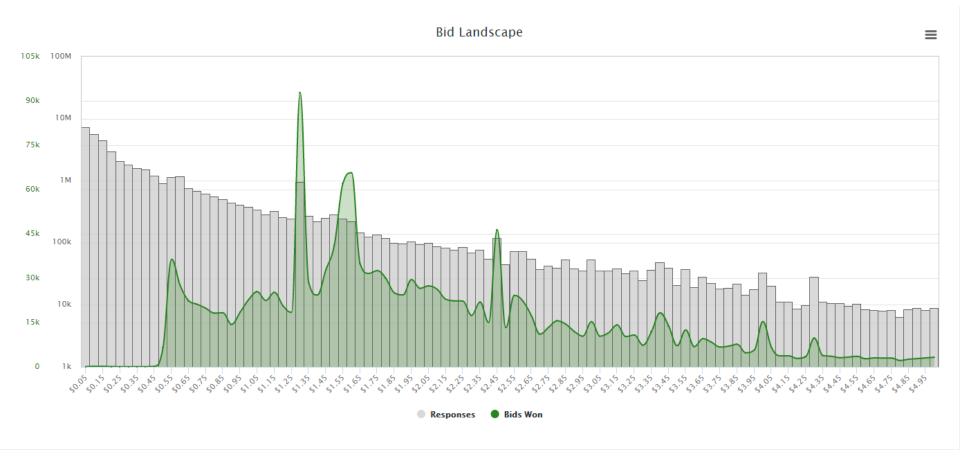
## Health and Hygiene

- Response time
- Bid Landscape

## Can latency be reduced while maintaining revenue? What percentage of revenue is Captured at various timeouts?



Are there misconfigurations? Very low HB wins indicate HB "falling through" the Stack and/or Google/AdX/AdSense.



## Audience Acquisition

Finding Audience, and More Of It

## Top Content

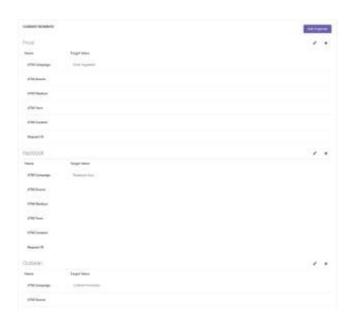
- Some content attracts more valuable traffic.
- Track it, then feed other channels the top content:
  - Recirculation
  - ▶ FB Promotion
  - Twitter Promotions
  - Highlight on Site
- Active Monitoring, not 30 days and wait!

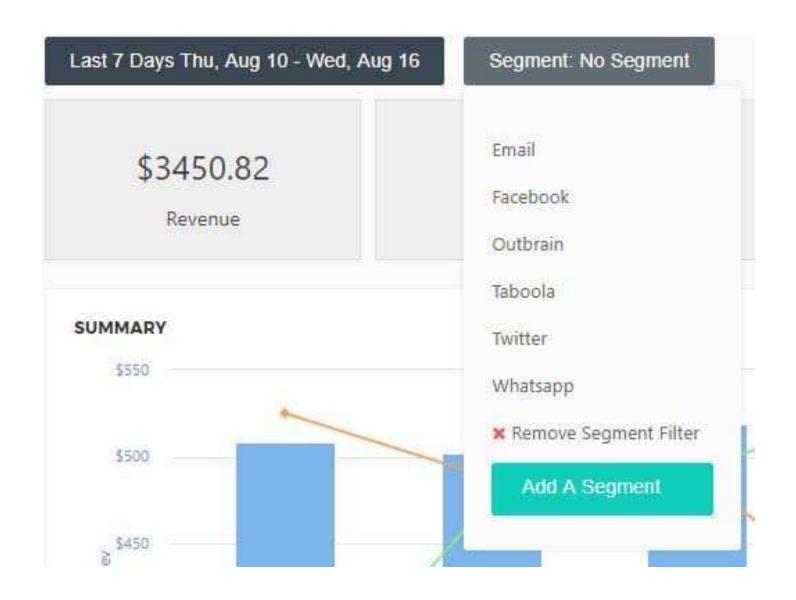
#### Top Monetized Content

0	# PAGES	• # WON		♦ UNIT CPM	
!-ultimate-build-guide	12,926	761	\$0.45	\$7.72	\$5.88
es-guide-all-egg-patte	12,238	791	\$0.48	\$7.38	\$5.84
-complete-crafting-reci	10,335	631	\$0.48	\$7.84	\$4.95
ading-fix 🗾	6,445	426	\$0.40	\$6.07	\$2.59
te-allocation-guide 🔼	5,994	352	\$0.26	\$4.37	\$1.54
:he-ins-and-outs-of-ch	5,702	296	\$0.23	\$4.40	\$1.30
ds-for-the-112-update	5,648	327	\$0.37	\$6.39	\$2.09
rival-faq-base-alfa-vaul	5,167	372	\$0.41	\$5.66	\$2.11
vith-pubg 🔼	5,161	245	\$0.28	\$5.90	\$1.45
-skill-crafting-combina	5,155	329	\$0.38	\$5.98	\$1.97
ıild-for-divinity-original	5,062	296	\$0.41	\$7.03	\$2.08
-set-in-black-desert-o	3,627	263	\$0.54	\$7.50	\$1.97

## Traffic Sources Vary in Quality!

- Do you wait 30? 7? 10 days?
- Header bidding is near real time
- Track a campaign, measure traffic quality
  - Reallocate for time of day
  - Quality traffic sources
  - Test more campaigns faster instead of waiting for high latency reporting!





## Wrapping it Up

#### Run a Wrapper!

- Prebid is the leader, 60 demand partners integrated and active dev community
- Wrappers don't provide analytics and deployment management, managed wrappers do

#### 4-6 Bidders to Start – Tempting to go big, don't!

- Talk to current partners
- Think about demand positioning, demand partners will be strong at different price points

#### Measure, measure, measure!

- Use a tool like PubWise
- Validate bidder positioning

#### Put pressure on the stack!

- Ok to lower stack top end
- If HB is only above stack then results will be good, not great
- Focus on net revenue, eCPM is not a touchstone since it's not used to set position in waterfall

#### Look beyond Demand Partner performance, including:

- ▶ Content recirculation, promotion, etc.
- Traffic source value

## Questions?

I love to talk about Header Bidding and publisher monetization. You can find me online at:



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