Easing The User and API Transition

Steve McDonald & the ADS Team

ADS Users Group Meeting - 11/2/2017

Goals

- Send users/queries from ADS Classic to Bumblebee
- Avoid breaking Classic links by redirecting to Bumblebee
- Provide upgrade path for Classic API to our new API
    - User application changes required
- Possible because Bumblebee search is (mostly) a superset of Classic

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The SAO/NASA Astrophysics Data System

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Welcome to the Digital Library for Physics and Astronomy

This site is hosted by the
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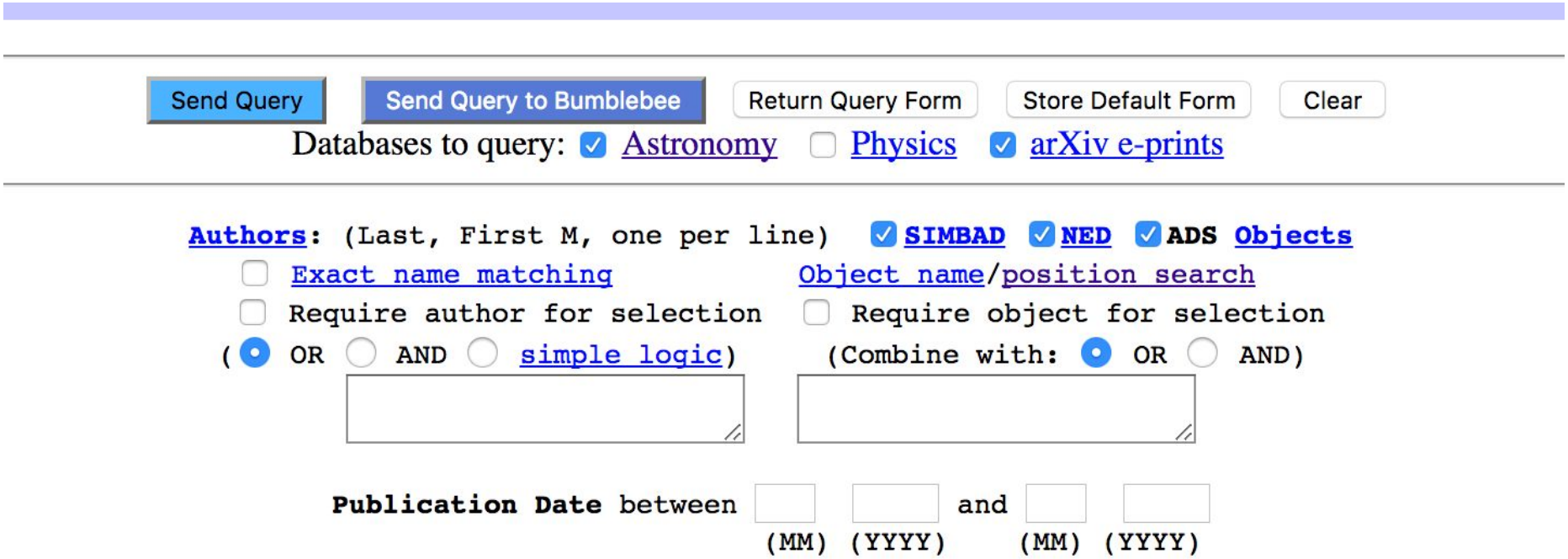
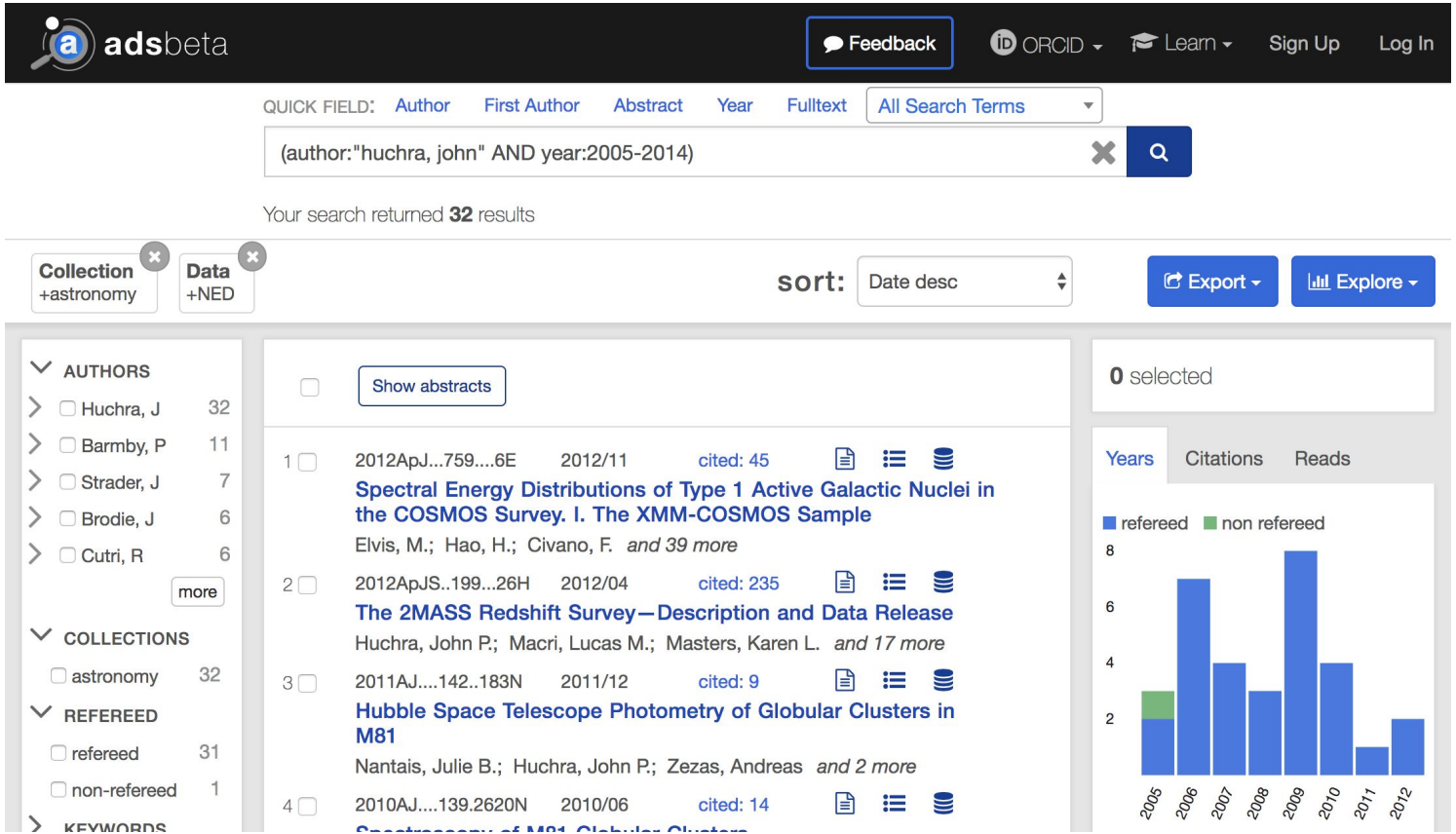
From The Familiar To The New



New Buttons Go To Bumblebee



Just Translate Query

- Send 302 HTTP Redirect
- Generate URL with parameters
- Bumblebee fills in web form
    - Puts search terms in text box
    - Checks selected facets
    - Helps users learn new UI

Translation Examples

Classic Field	Bumblebee Field
author	author
title	title
aut_xct	=author
db_key (AST, PHY, GEN, PRE)	database (filter query facet)
jou_pick	property:refereed, property:notrefereed

Build Out A Spreadsheet

	Classic field	Bumblebee fiel	Match	Search	Notes	query vs. facet vs. para	Classic Explanation
2	**Abstract Search form - BBB equivalent is "Classic Form"**						
3	author	author	exact	abstract		query	list of semicolon or newline separated authornames as last, f
4	aut_xct		n/a	abstract	BBB: use "=" before author field	query	exact author search. aut_xct="YES" turns it on
5	object	object	exact	abstract		query	list of semicolon or newline separated object names
6	title	title	exact	abstract		query	title words, any non-alpha-numeric character separates
7	text	abs	exact	abstract	BBB: virtual field	query	abstract words, any non-alpha-numeric character separates
8	start_mon	pubdate	partial	abstract	BBB: range, Classic: lower bound	query	starting month as integer (Jan == 1, Dec == 12)
9	start_year	pubdate	partial	abstract	BBB: range, Classic: lower bound	query	starting year as integer (4 digits)
10	end_mon	pubdate	partial	abstract	BBB: range, Classic: upper bound	query	ending month as integer (Jan == 1, Dec == 12)
11	end_year	pubdate	partial	abstract	BBB: range, Classic: upper bound	query	ending year as integer (4 digits)
12	start_entry_day	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	start entry day of day as integer
13	start_entry_mon	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	start entry day of month as integer
14	start_entry_year	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	start entry day of year as integer
15	end_entry_day	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	end entry day of day as integer
16	end_entry_mon	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	end entry day of month as integer
17	end_entry_year	entry_date	partial	abstract	BBB: range, Classic: lower bound	query	end entry day of year as integer
18	db_key	database	exact	abstract	BBB: astronomy, ...; Classic: AST, ...; ignore PRE?	facet preferred	Database to query (AST, PHY, PRE, GEN) - ignore PRE
19	nr_to_return		IGNORE	abstract			how many abstracts to return (default is 200, max 3000)
20	start_nr		IGNORE	abstract			where to start returning in list of retrieved abstracts (default is 1)
21	return_req		IGNORE	abstract			requested return: return_req="result" : return results (default); return
22	jou_pick		partial	abstract	BBB: property:refereed, property:notrefereed	facet preferred	specify which journals to select: jou_pick="ALL" : return all records (default) jou_pick="NO" : return only refereed records jou_pick="EXCL" : return only non-refereed records
23	ref_stems	bibstem	partial	abstract	BBB: bibstem:(ApJ.. OR AJ..); classic: ref_stems="A	facet preferred	list of comma-separated ADS bibstems to return, e.g. ref_stems="A
24	min_score		IGNORE	abstract			minimum score of returned abstracts; (floating point, default 0.0)
25	article_sel	property:article	partial	abstract	BBB: property:article	facet preferred	select only articles (not catalogs, abstracts, etc)
26	data_link	property:data	partial	abstract	BBB: verify	facet preferred	return only entries with data.

How Bad Does This Get?

- ~100 separate parameters from UI in Classic
  - So, non-trivial amount of code required
- API parameters too!
  - ~100 more
  - Fulltext, Affiliation, Library
  - API requests must redirect to microservice, not Bumblebee

Some Good News

- Existing “Tugboat” redirect in place
  - No new component needed
- List is prioritized
- Partial UI solution is useful
  - Deploy with most important fields
  - For non-supported fields just display warning or error
- API support can follow
  - Again, piecemeal with important fields first

Status

- Translate 20% of most common UI fields
- Warning message not yet implemented
- No API support yet
- Need to deploy dev Classic system

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