New Features

This page highlights some of the new features that are available in the updated Hubble Search.

On this page...

Autocomplete Suggestions

For text fields, we have implemented 'typeahead': in essence, an autocomplete feature which suggests the available values as you type. In the New HST Search, this is available for 'Dataset ID', 'Principal Investigator', and 'Names of Filters'. See the **Figure 1** below for some examples.
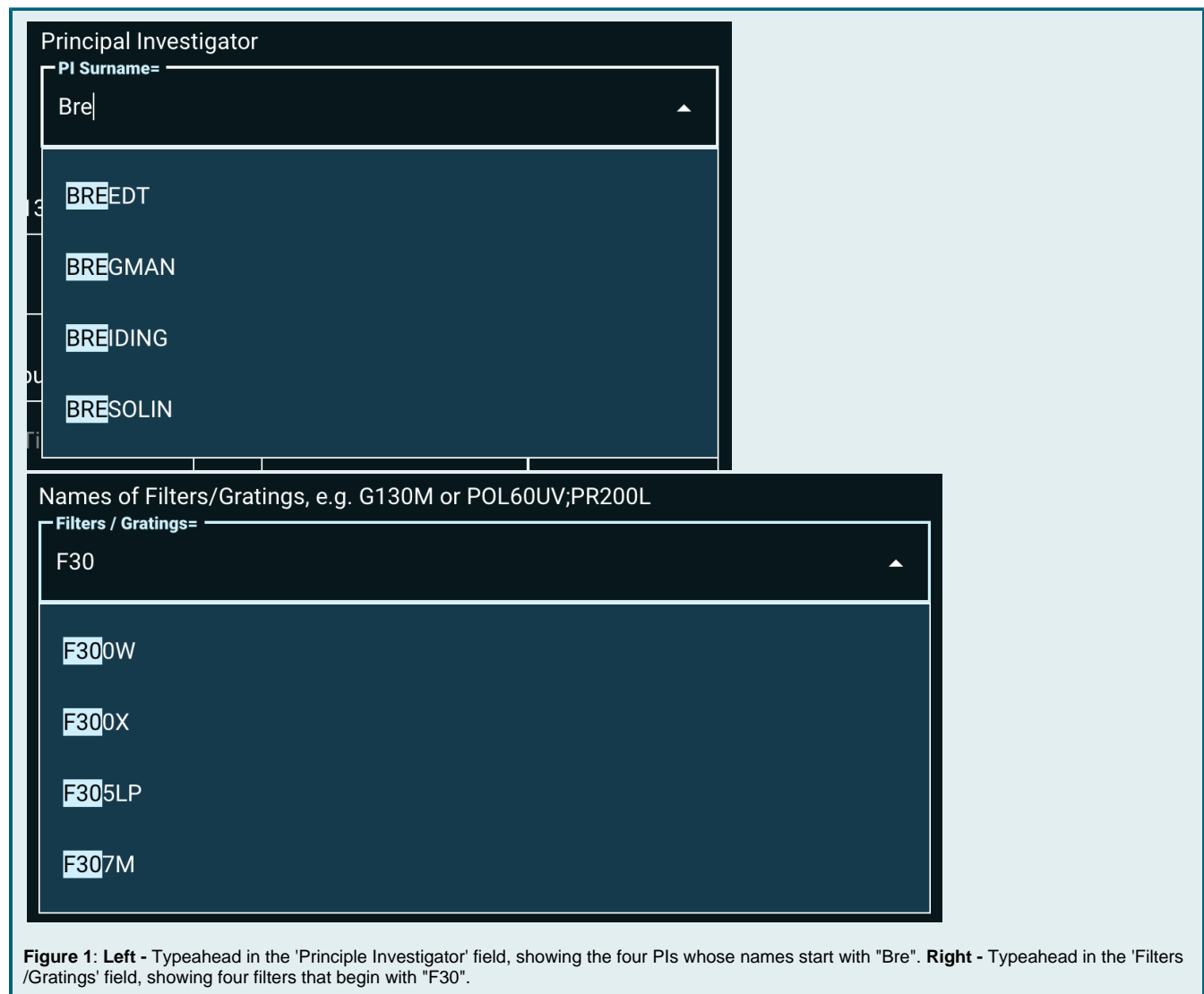

Figure 1: **Left -** Typeahead in the 'Principle Investigator' field, showing the four PIs whose names start with "Bre". **Right -** Typeahead in the 'Filters /Gratings' field, showing four filters that begin with "F30".

Show API Query

Although using an API is often the most powerful and versatile way to search, programmatic access can be unintuitive for those who are new to it. Fortunately, the new search form includes a 'Show API Query' button, to the right of the 'Search' Button.

Clicking the button generates a query based on the current values in the search form. You can choose either a Python script that uses the astroquery.mast package, or a Curl script, as shown in **Figure 2** below.

API Query

This code was generated from the query you built in the form. You can use it to search MAST programmatically. See **API docs** for more information.

☐ PYTHON ☑ CURL

📋 COPY

```
curl -d '{"target":["M102,M104"],"radius":3,"radius_units":"arcminutes","conditions":
[{"sci_pi_last_name":"Bre"},{"sci_actual_duration":"> 1000"},
{"sci_spec_1234":"F300W,F300W;*,*;F300W,*;F300W;*"},{"sci_obs_type":"all"},{"sci_aec":"S"},
{"sci_instrume":"wfc3"},{"sci_central_wavelength":"< 4000"}],"select_cols":
["ang_sep","sci_aper_1234","sci_central_wavelength","sci_data_set_name","sci_dec","sci_actual_duratio
n","sci_spec_1234","sci_hlsp","sci_instrume","sci_pi_last_name","sci_preview_name","sci_pep_id","sci_ra
","sci_refnum","sci_release_date","scp_scan_type","sci_start_time","sci_stop_time","sci_targname","sci_s
```

Figure 2: An API query, specifically a curl script, which was generated using the example found on the Basic Search page.

For Further Reading...

- Mission Search Guide