



Python, Colab and Github for Astronomy

Learn the python software language. Use it for your STEM career.

Python has become the language of astronomy and astrophysics – as well as other sciences and engineering. Join our new Boyce-Astro seminar to get a start in python. As part of this curriculum, we will explore the lifetimes of stars using the Hertzsprung Russell diagram (HRD). We will then learn how to query large amounts of data from the Gaia, Kepler satellite databases using Python within Colab. We will then analyze and filter this data to plot HRDs for thousands of stars in our immediate solar neighborhood and distant globular clusters.

The seminar will introduce you to Python, Google Colab, Github, Markdown Syntax, Jupyter Notebook and much more during the 5 sessions planned. If Mother Nature cooperates, we might even do a live stream from [The Bush Telescope](#) located in Washington State!

Our instructor, Chandru Narayan, is a long time amateur astronomer and currently teaches Computer Science and Astronomy at The Bush School, Seattle, Washington [<https://www.bush.edu/>].

BOYCE-ASTRO ONLINE SEMINARS				
SPRING SEMESTER 2022				
Python, Colab, and Github for Astronomy Seminar -- for graduates of IntroSTARS™				
IntroSTARS is an online course in preparation for Boyce-Astro Seminars - Sign up at Boyce-Astro.org				
MOD.	TOPIC	WHEN	DATE	WHERE
1	Lifetime of Stars - Hertzsprung Russell Diagram review	Thursday, 8:00 - 9:00 PM PDT	17-Mar-22	Zoom
2	Python, Google Colab, and Github for Astronomy	Thursday, 8:00 - 9:00 PM PDT	24-Mar-22	Zoom
-- SPRING BREAK --				
3	Query/Filter Astro Databases, Analysis, Plotting	Thursday, 8:00 - 9:00 PM PDT	7-Apr-22	Zoom
4	Project: HRD of Globular Cluster or Solar Neighborhood	Thursday, 8:00 - 9:00 PM PDT	14-Apr-22	Zoom
5	Show and Tell: Present Your Results	Thursday, 8:00 - 9:00 PM PDT	21-Apr-22	Zoom

Successfully completing IntroSTARS™ is the prerequisite for the seminar.

If you have not taken our FREE IntroSTARS™, please sign up here before March 10th:

<https://boyce-astro.org/introstars-your-step-1/>

The IntroSTARS Quiz to qualify for this Python for Astronomy seminar will be sent to you on March 11th and will be due back by March 14th. Those who have already passed the Quiz need not take it again.

The course fee is \$29 and will be due on March 16.

The class size is limited to 20. High school and college students have preference.

[Click Here to Register](#)