

**High Performance Research Computing**

*A Resource for Research and Discovery*



**TEXAS A&M**  
UNIVERSITY.

# HPRC Short Course

## Introduction to Perl



**DIVISION OF RESEARCH**  
TEXAS A & M UNIVERSITY



# For Assistance...

Website: <https://hprc.tamu.edu>  
Email: [help@hprc.tamu.edu](mailto:help@hprc.tamu.edu)  
Telephone: (979) 845-0219  
Visit us: Henderson 114A , Blocker 217D  
(Mon-Fri) (Fri)

Help us, help you -- *we need more info*

- Which Cluster
- NetID
- Job ID(s) if any
- Location of your job files, input/output files
- Application used & module(s) loaded if any
- Error messages
- Steps you have taken, so we can reproduce the problem

# Course Material

[https://hprc.tamu.edu/training/intro\\_perl.html](https://hprc.tamu.edu/training/intro_perl.html)

# Open Grace Portal

- Go to <https://portal.hprc.tamu.edu/> and click on **Grace OnDemand Portal** (Those without HPRC accounts, skip to slide 7)
- You may be asked to login to the Central Authentication Service (CAS) with your NetID and password
- On the top menu bar, click **Clusters** and then **>\_grace Shell Access**
- Login using your NetID password and Duo authentication  
(these instructions will work on Terra as well)

# Clone Perl Files

- Enter the following commands, which will create the directory `/scratch/user/NetID/perl` :

```
cd $SCRATCH
git clone https://github.com/kjtamu/perl.git
cd perl
ls
```

# Open Jupyter Notebook

- Return back to the previous browser tab for the Grace Portal with the title “Dashboard”.
- On the top menu, choose **Interactive Apps** and then scroll all the way down to **Jupyter Notebook**
- Set **Number of hours** to **3** and click **Launch** at bottom of dialog
- Click **perl** and then click **Intro\_to\_Perl.ipynb**

# Using Google Colab

For users without HPRC accounts, do the following:

- Go to <https://colab.research.google.com>
- On the top navigation bar, click the **GitHub** tab.
- Type **kjtamu/perl** on the long search line under “Enter a GitHub URL or search by organization or user”
- On the line with **Intro\_to\_Perl.ipynb**, click open icon to the far right

# Upcoming Short Courses

<https://hprc.tamu.edu/training/>

<b>Introduction to Fortran</b>	Nov 12, 10:00 am - 12:30 pm
<b>Introduction to CUDA</b>	Nov 12, 1:30 pm - 4:00 pm
<b>Introduction to R</b>	Nov 19, 10:00 am - 12:30 pm
<b>Introduction to Julia</b>	Nov 19, 1:30 pm - 4:00 pm
<b>Code Parallelization using OpenMP</b>	Google Classroom
<b>Code Parallelization using MPI</b>	Google Classroom