

# USARRAY SHORTCOURSE

## UNIX, SCRIPTING, AWK, AND GMT



# Some Reflection on IRIS and USArray

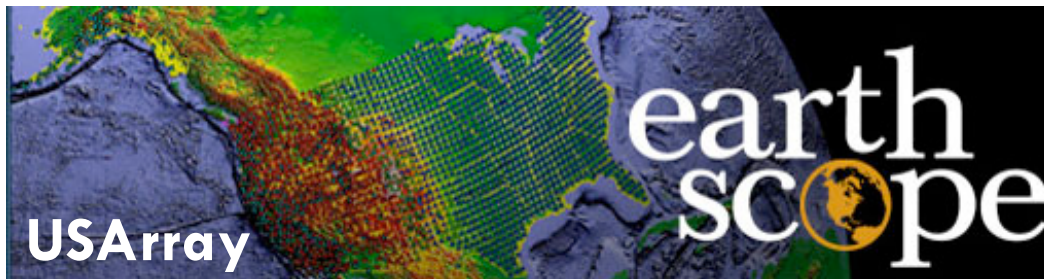
## IRIS is a Community of Practice

Slide based off of Kim  
Kastens from EER 2016

“Communities of Practice are groups of people who share a concern or a passion for something they do, and learn how to do it better as they interact regularly.”

- They **strengthen** the practice at both the **group and individual level**.
- They **energize their participants** and engender **deep loyalty**.
- They **accomplish amazing feats** relative to their available resources.

## USArray Short Course 2009



# My Programing Style and Philosophy

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Google &



# UNIX and Shell Scripting

## UNIX Operating System

### Kernel – Hub

Allocates time and memory

### Shell

Interface between user and the kernel  
Command Line Interpreter (CLI)

### Programs

For example – GMT, awk, SAC



In Jurassic Park – they had a GUI

## Shell Scripting

Create commands and series of  
commands to automate tasks

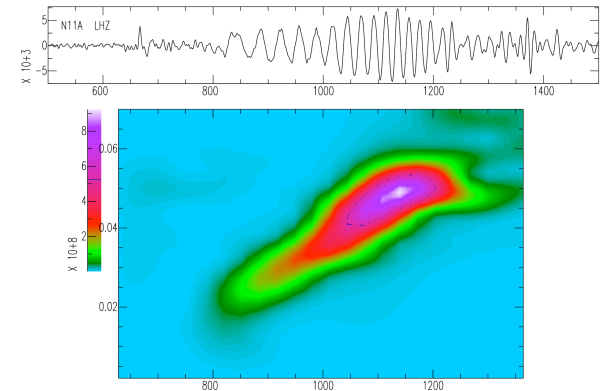
# Programs in UNIX



open source collection of about 80 command-line tools for manipulating geographic and Cartesian data sets



AWK is an interpreted programming language designed for text processing such as searching files for lines (or other units of text) that contain certain patterns.



## SEISMIC ANALYSIS CODE (SAC)

general-purpose interactive program designed for the study of sequential signals, especially time-series data.

# Tutorials on Virtual Box and Moodle

- TODAY - Scripting and GMT
- PreCourse – Tutorials 1-9
- Now – Tutorials
  - ▣ 10 – Travel Times and Ray Paths
  - ▣ 11 – Magnitude and Frequency Plots
  - ▣ 13 – Cross Sections
  - ▣ *Sorry No Tutorial 12*

- On Wed – work more on SAC

<http://bit.ly/USArray2016>

If you haven't logged in yet and installed your virtual machine – check your email “USArray Pre-Course Homework”

Mike Brudzinski was a main author on the tutorials, but couldn't be with us this week



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- [Home](#)
- [My home](#)
- [Site pages](#)
- [My profile](#)
- ▼ [Current course](#)
  - ▼ [2016USArrayShortCo](#)
    - [Participants](#)
    - [Badges](#)
    - [Get](#)
    - [UNI](#)
    - [Phil](#)

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