Module 1: Introductions

IT Exploration Training

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Welcome!

- This course is a survey of several topics in Information Technology (IT).

- Some of you have internships working with IT this summer – so let's learn (or review) some of the essentials.

- Lots of hands-on activities to do: some history, understanding the Internet, web browsers and servers, free software, and Linux.

Schedule

- We start at 8:30 AM:

    - Morning: 8:30 AM – noon
    - Lunch: Noon – 12:45 PM
    - Afternoon: Field trips to area IT businesses

- Each morning has two Modules, each lasting an hour and introducing some topic in IT.

    - 15 minute breaks in-between…

- At 11 AM, a presentation by an outside speaker who works in IT.

- Lunch is at noon.

Information Technology (IT)

- We'll explain how things work: technical IT knowledge.

- But technical knowledge is not enough!

- You also need **other** skills to be successful in IT work: "soft skills"

Useful Skills for IT

- **Technical Knowledge**: Understanding computing technology and how it works

- **Presentations**: Explaining things to others
  - Written presentation: writing specifications, reports, problem tickets
  - Oral presentation: standing up and talking, often using slides

- **Teamwork**: Working with others

- **Problem Solving:** Diagnosing and fixing problems

- **Learning**: How to get better, in doing all the above

Activities

- During most of the Modules, we'll do "hands-on" computer work together on "Activities"

- Slides for each Module will describe each Activity's topics, but specific instructions will be given in class.

- Each Activity involves hands-on work with relevant tools and documents.

- Work by yourself or with a partner.

16 GB USB Flash Drive

- Each student receives a 16 GB USB Flash Drive loaded with free software.

- **Don't lose it!**

- We will use it throughout the Camp.

- Leave it in the classroom at the end of each day – except for the last.

    - Then take it home.

- It contains lots of free software:

    - "Portable Apps" => Run these on any computer, without needing installation.
    - Live USB Linux: a bootable version of the free Linux operating system

Security Warning

- It's easy to mess up a computer's software.

- Thus, most public computers (schools, libraries) won't allow regular user accounts to install new software.

- The Portable Apps software was designed to allow you to run software on a computer *without* installing it.

- So after this class is over, you can take the USB with Portable Apps home with you – but **don't** install them on any computer <u>without</u> approval.

Activity: Download Module Resources

- Slides for each Module (including this one) are available for download.

- Other relevant documents and links will also be made available.

- The following slides describe how to download a folder containing these resources.

- We'll do this together in class.

Download Instructions

- Start a Windows Command Prompt window, and enter the following commands:

```
cd Desktop
git config --global user.name "John Doe"
$ git config --global user.email johndoe@example.com
git clone https://github.com/moxie47/module_1.git
```

- The first command changes your current folder to the **Desktop**.

- The second and third commands set up your identity and email for remote Git communication (any email is fine).

- The fourth and final command downloads the **module_1** folder from GitHub, placing it on your **Desktop**.

Module Folders on your Desktop

- You can open this folder and see all of the Module resources inside.

- You can copy this folder to your own USB.

- You can also do the above on PCs outside the classroom.

- But they need to have Git installed (classroom computers already have it installed).

- You can download and install Git on your own PCs, and here's how:
  https://youtu.be/cEGIFZDyszA