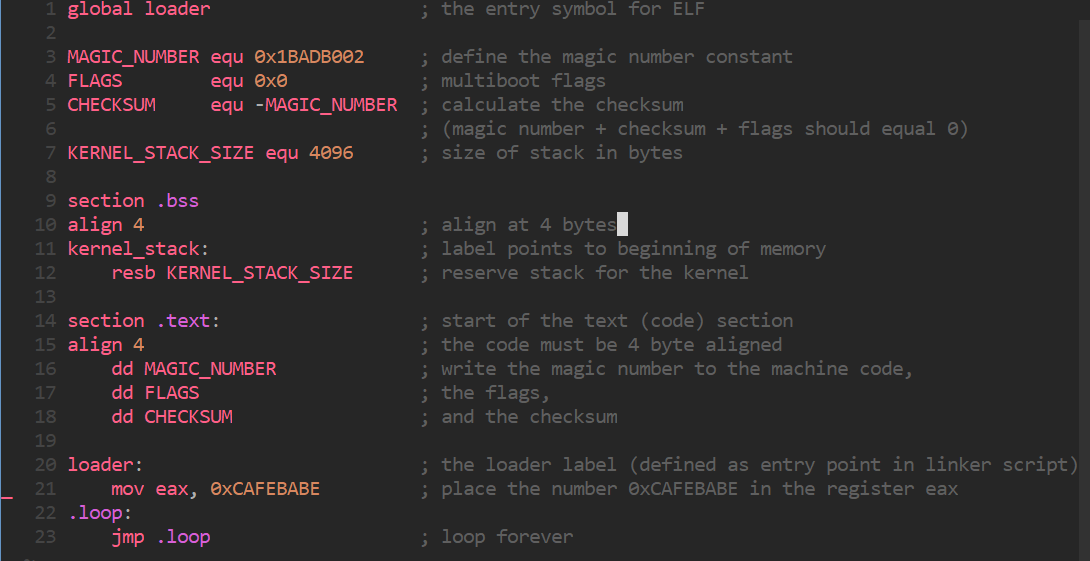
Robert Kats - James Anderson - Patrick Star

We decide to run the little Os using the windows linux subsystem with ubuntu 16 (Rob) and 18 (James) and 18(Pat). We then used an xServer forwarding application( [xMing](https://sourceforge.net/projects/xming/) ) to allows forwarding of the gui applications to run on windows.

We then installed all the packages required running the command

**sudo** apt-get install build-essential nasm genisoimage bochs bochs-sdl

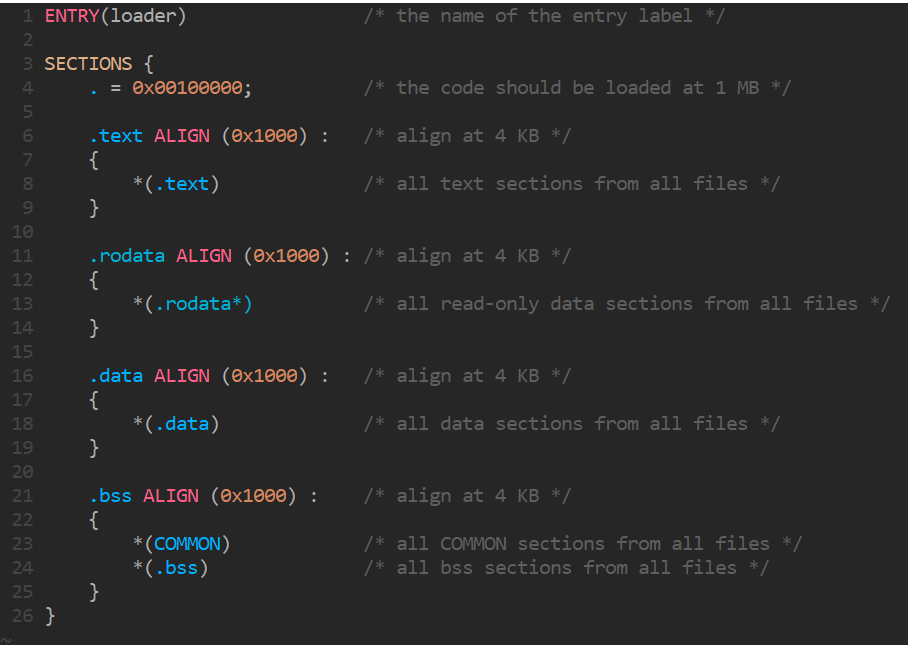
Then we created a loader.s file and added the following code:



Then we ran the command nasm -f elf32 loader.s

Section 2.3.2 :

How we have to link to the kernel. Adding the following code to the file link.ld:



Now to link this and make the kernel we run the command: ld -T link.ld -melf\_i386 loader.o -o kernel.elf

Then we downloaded Grub to help us boot the kernel <ftp://alpha.gnu.org/gnu/grub/grub-0.97.tar.gz> Or

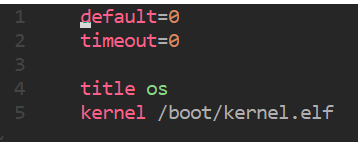
<http://littleosbook.github.com/files/stage2_eltorito>.

How we have to build the iso file by running the following commands:

mkdir -p iso/boot/grub && cp stage2\_eltorito iso/boot/grub/ && cp stage2\_eltorito iso/boot/grub/

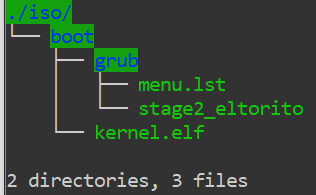
The first command creates a new directory and the other two commands copy the files into that new folder.

Then we made a menu for grub the file called menu.lst has the following code:



This is how grub will know to start our os.

This is the tree view of the iso folder:



After Running we will have an iso to run!

genisoimage -R \

-b boot/grub/stage2\_eltorito \

-no-emul-boot \

-boot-load-size 4 \

-A os \

-input-charset utf8 \

-quiet \

-boot-info-table \

-o os.iso \

iso

---2.3.5 time to run the iso