Editable Mintstick

Following are instructions to partition, format and prepare a USB stick to be able to boot and contain adjustments like additional drivers/packages or configuration files.

Partition USB Device

Gparted GUI method:

```
gparted
```

- delete partitions
- create msdos partition table
- add fat32 partition
- add boot flag

Parted command line method:

```
umount /dev/sdX1

parted /dev/sdb print

#delete existing partitions
parted /dev/sdb rm 1
parted /dev/sdb rm 2
parted /dev/sdb rm 3

#create new partition
parted /dev/sdb mklabel msdos
parted /dev/sdb mkpart primary fat32 0% 100%
parted /dev/sdb align-check opt 1

parted /dev/sdb set 1 boot on
parted /dev/sdb set 1 lba on

#Format as fat32
mkfs.vfat -F 32 -n 'MINTSTICK' /dev/sdX1
```

Syslinux Bootloader (MBR)

Syslinux is FAT filesystem based.

initialise using:

```
syslinux --install /dev/sdX1
```

This will alter the boot sector on the disk and copy a file named ldlinux.sys into its root directory. On boot time, by default, the kernel will be loaded from the image named LINUX in the root of the boot media. This default can be changed, see the section on the syslinux configuration file.

#Manual MBR installation and re-enabling partition boot flag

```
dd conv=notrunc bs=440 count=1 if=/usr/lib/syslinux/mbr.bin of=/dev/sdX
parted /dev/sdX set 1 boot on
```

This will write the Syslinux mbr code (mbr.bin) into the master boot record of the drive, and mark first partition as active (bootable).

Copy a Linux kernel image (like vmlinuz) to the root (/dev/sdX1) of your media.

Lastly, create a 'syslinux.cfg' file in the root of your media (/dev/sdX1) and enter any configuration options you need/want.

OR

Grub Bootloader (MBR)

```
sudo mount /dev/sdX1 /mnt/usb
sudo grub-install --target=i386-pc --boot-directory="/mnt/usb/boot" /dev/sdX
```

Copy data

```
sudo mkdir -p /mnt/usb
sudo mount /dev/sdX1 /mnt/usb
sudo grub-install --target=i386-pc --boot-directory="/mnt/usb/boot" /dev/sdX

sudo mkdir -p /mnt/iso
sudo mount -o loop /tmp/LinuxMint.iso /mnt/iso

sudo cp -av /mnt/iso/* /mnt/usb/
```

Other notes

```
ubnkern
```

From:
http://wuff.dyndns.org/ - **Wulf's Various Things**

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