

# configuring development environment

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# intro

- ▶ you need 3 GB of disk space in `boot` partition, to boot the kernel
- ▶ you can use Gpartition for that

# emails

- ▶ generate patch with `git format-patch` command
- ▶ send patch with `git send-email my_patch.patch`

Thats all you do

- ▶ configure your email client to be able send responses, to review comments, and other communication

## email conventions

- ▶ bottom post: post your reply at bottom, Top posting is writing a message above the original text while sending a response to an email. Add your response at the bottom of the original text.
- ▶ delete or strip parts of message you are not replying to
- ▶ *doc*

**Composition & Addressing**

**Composition**  
☐ Compose messages in HTML format  
☒ Automatically quote the original message when replying  
Then,   
and place my signature   
☐ Include signature for replies  
☐ Include signature for forwards

**Addressing**  
When looking up addresses:  
☒ Use my global LDAP server preferences for this account  
☐ Use a different LDAP server:

Figure 1: example configuration with thunderbird

## Cool stuff now

- ▶ be in /linux\_work
- ▶ clone the mainline

```
1 git clone git://git.kernel.org/pub/scm/linux/  
   kernel/git/torvalds/linux.git  
   linux_mainline
```

- ▶ note that changing the protocol makes clone much slower
- ▶ you can use *cregit* to view kernel sources

Subdirectories:


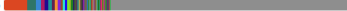






Name	Lines	Files	Authors	Tokens	change scale	Color Graph By Token Proportion
Documentation	228	2	2	788		
arch	2228614	9981	3296	8415088		
block	53544	96	344	206375		
certs	479	5	10	1599		
crypto	102487	159	244	433557		
drivers	15679156	22864	11614	68170486		
fs	1270156	1703	1817	6039508		
include	977948	5022	4829	2741166		
init	3974	11	243	15504		
ipc	9391	12	149	40357		
kernel	329286	382	1456	1224516		
lib	146466	332	599	650432		
mm	135467	116	865	506861		
net	1048490	1595	2286	4646374		
samples	34251	163	149	146232		
scripts	46809	94	282	203056		
security	93501	176	339	374301		
sound	1106514	1843	1325	4966687		
tools	465752	1822	729	2032275		
usr	624	1	14	2677		
virt	25189	36	205	98197		

Figure 2: *cregit*

- ▶ Take a look at the Makefile and MAINTAINERS files in the main directory and scripts/get\_maintainer.pl and scripts/checkpatch.pl. You will be using them in your everyday kernel development life.



```
# Get back to your root of the workspace  
cd /linux_work
```

```
git clone git://git.kernel.org/pub/scm/linux/kernel/git/shuah/linux-kseltest.git  
linux_kseltest
```

```
git branch -a  
devel  
* fixes  
master  
next  
remotes/linux/master  
remotes/origin/HEAD -> origin/master  
remotes/origin/devel  
remotes/origin/fixes  
remotes/origin/khdr_fix  
remotes/origin/ksft-tap-refactor  
remotes/origin/master  
remotes/origin/next
```

```
git checkout next  
Switched to branch 'next'  
Your branch is up to date with 'origin/next'.
```