



# mercurial erweitern

dsp (entropia)



# Distributed Version Control System





..in 5 minuten



\$ hg init



.hg/...

README

src/

src/Makefile

src/main.c

src/ubd.c

src/ubdnet.c



\$ hg add/rm



\$ hg status



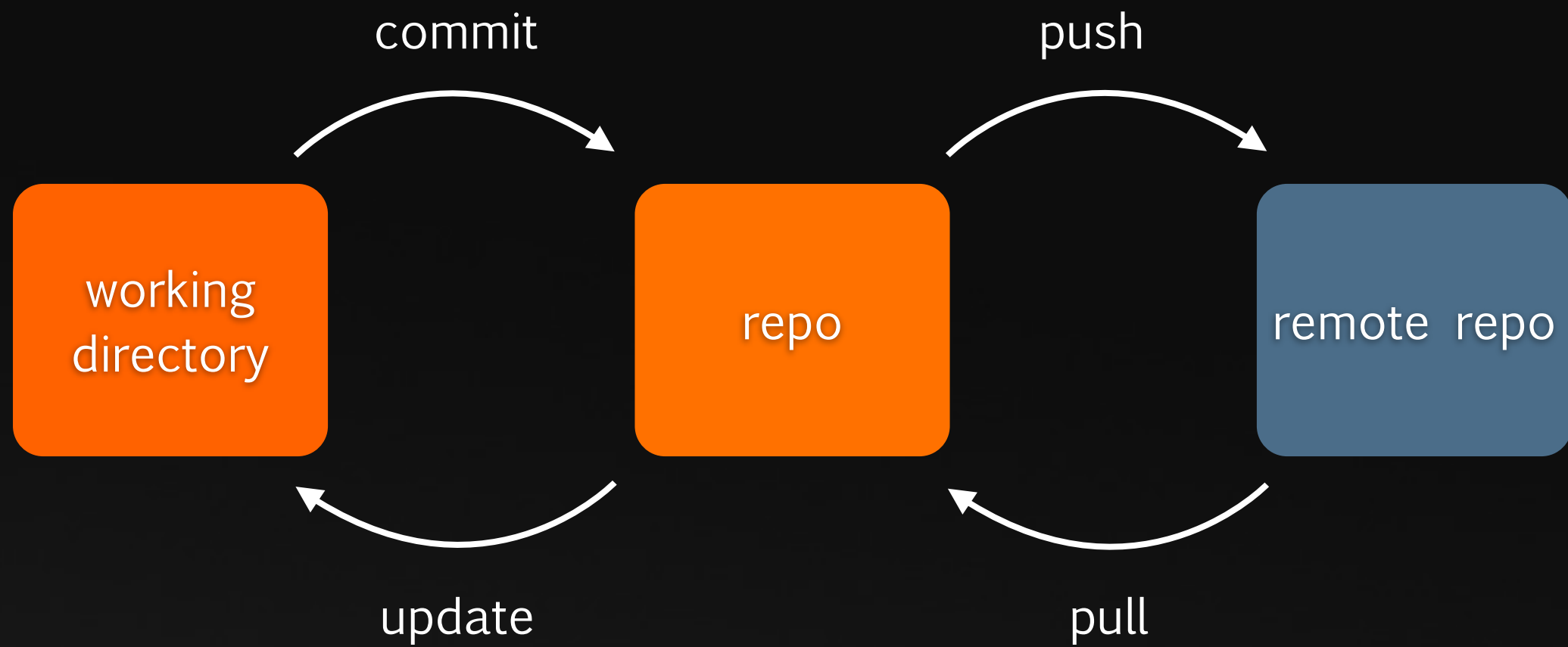


\$ hg commit



```
$ hg push ssh://example.com/repo.hg
```

```
$ hg clone . ssh://example.com/repo.hg
```





\$ hg log



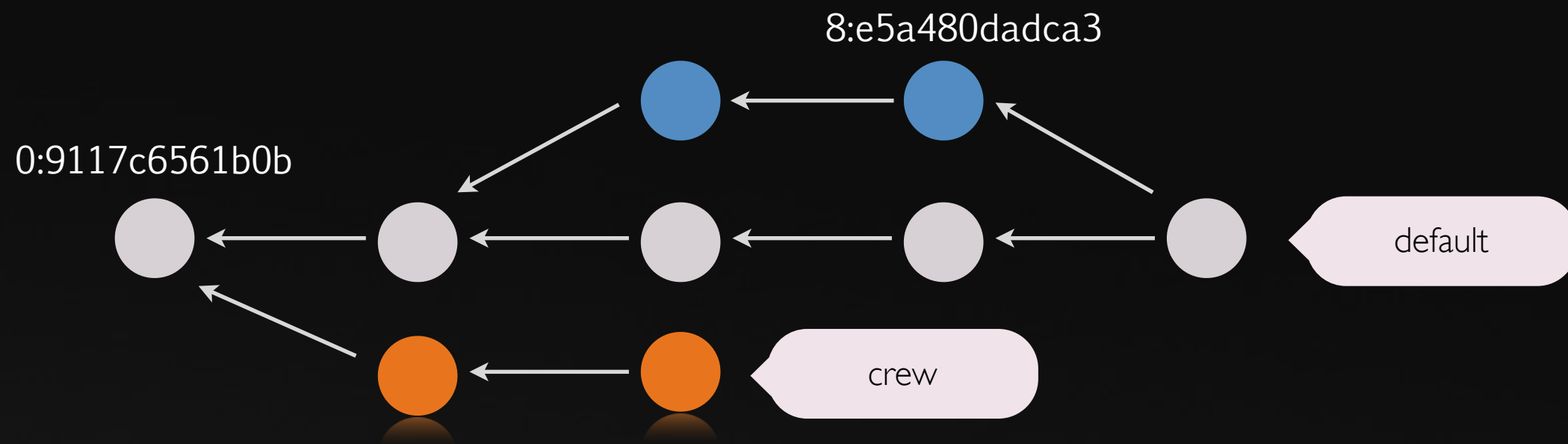
```
$ hg update -r 5
```



rev number	node id	pseude ids	revsets
5	6c1c2351c0	.	1::5
12	4fc4cdb3b90	-5	10::5 - 7 min( added(„foo.c“))



\$ hg help







# git

- `git init`
- `git commit -a`
- `git status`
- `git push git://...`
- `git pull http://..`

# mercurial

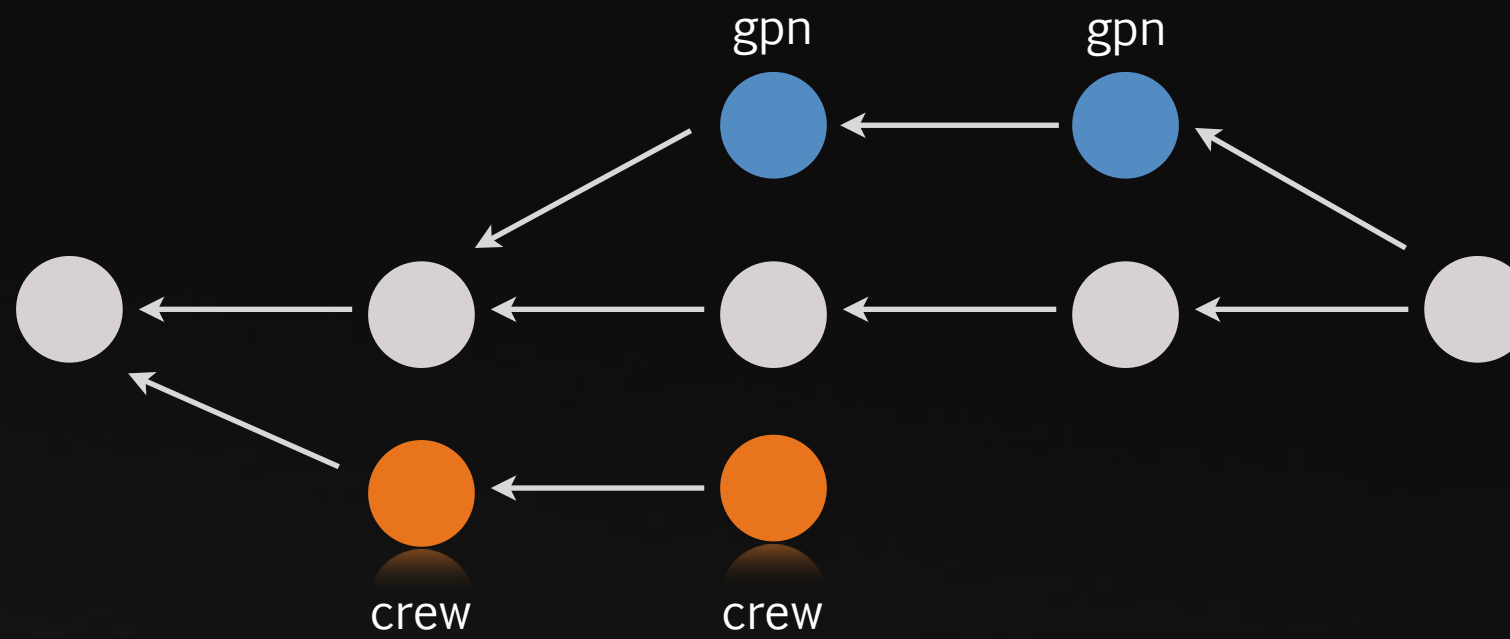
- `hg init`
- `hg commit`
- `hg st`
- `hg push http://...`
- `hg pull http://...`



small differences...

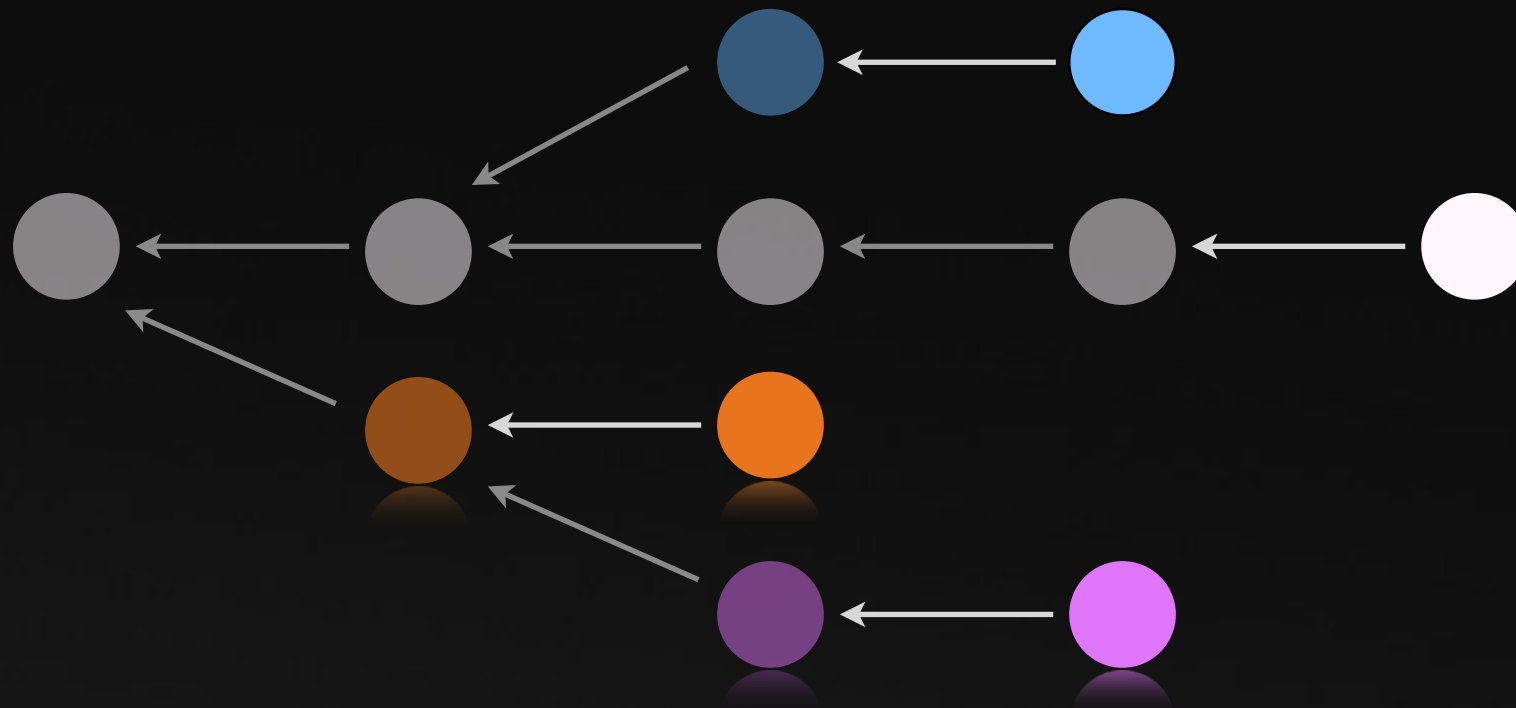


# branches





# heads





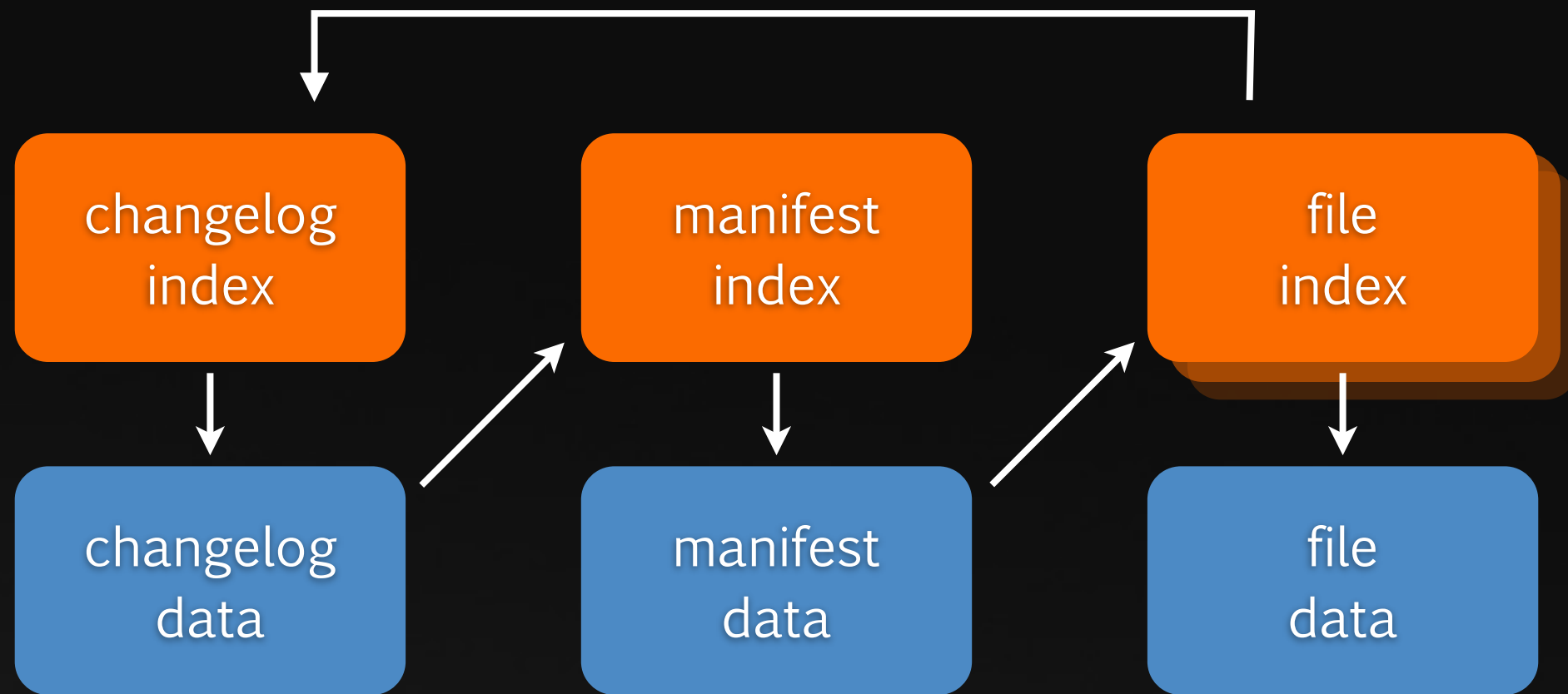
kein index



# extensions



# repository format





# revlogNG



6b offset

2b flags

4b compressed length

4b uncompressed length

4b base revision

4b link revision

4b parent 1

4b parent 2

32b nodeid



hg debugindex .hg/data/mercurial/bookmark.py.i

rev	offset	length	base	linkrev	nodeid	p1	p2
14	3373	269	0	14027	f86449ec3d60	e728b74a98ca	000000000000
15	3642	79	0	14039	6c603d1e885a	f86449ec3d60	000000000000
16	3721	43	0	14064	4136412562d9	6c603d1e885a	000000000000
17	3764	92	0	14170	6278ee0885bf	4136412562d9	000000000000
18	3856	384	0	14268	f1892c3d95ec	3d186aa4c329	000000000000
19	4240	697	0	14270	73e1d126cf09	6278ee0885bf	f1892c3d95ec
20	4937	57	0	14559	49774cdf37b6	73e1d126cf09	000000000000



filelog

file  
index

.hg/store/mercurial/bookmarks.py.i



# manifest

manifest  
index

.hg/store/00manifest.i



# \$ hg --debug manifest

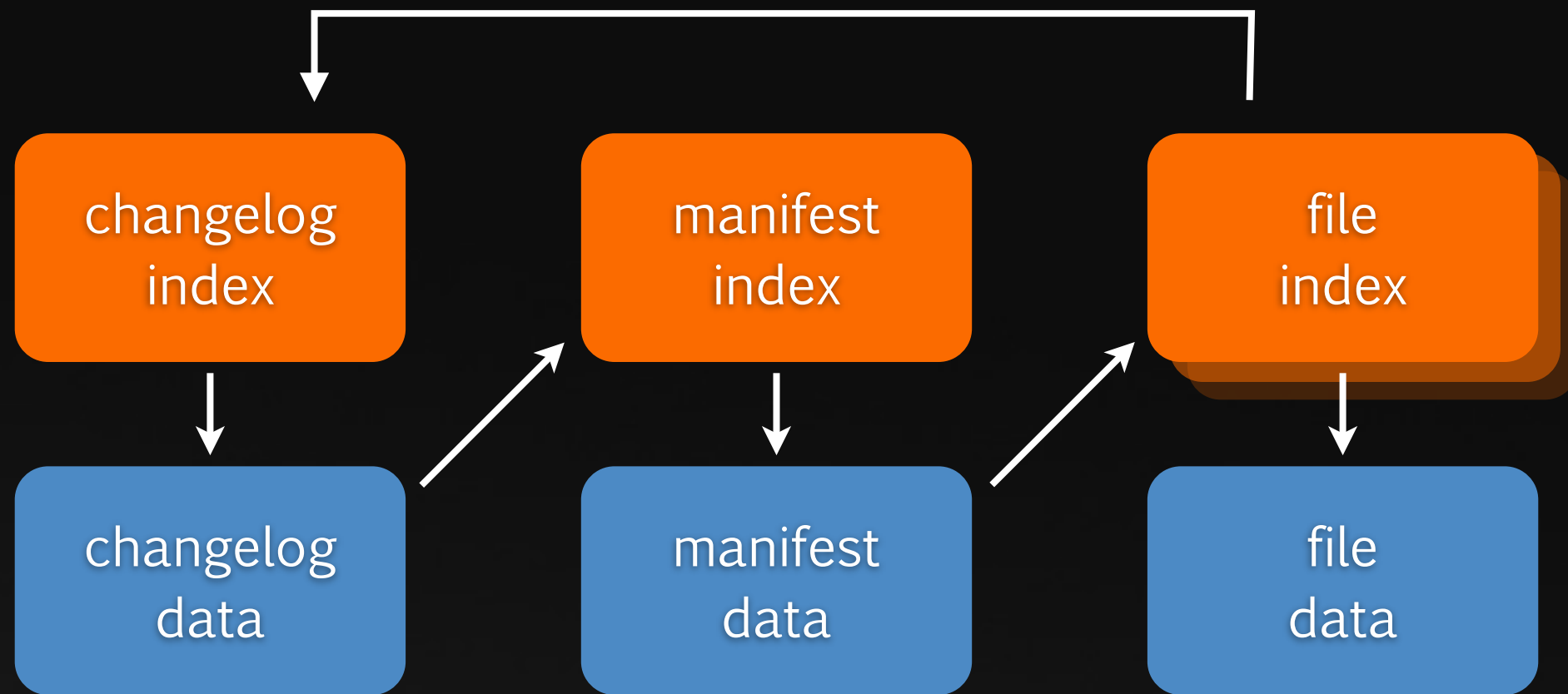
```
44754b8b0fc10af6beb2e369e1ab9049f45367ba 644 .hgignore
16eb79a9f9f03fb89bcc4dc33446f11d43091674 644 .hgsigs
b76e3114c5fecfa319d62a3aaef06eeab82e193b 644 .hgtags
7c8afb9501740a450c549b4b1f002c803c45193a 644 CONTRIBUTORS
5ac863e17c7035f1d11828d848fb2ca450d89794 644 COPYING
1c2110687d65b7448b73c4a4c7c4b28f957eaf21 644 Makefile
e4907aefc8dd5710417fb9887099a83fc14f7749 644 README
```



# changelog

changelog  
index

[.hg/store/00changelog.i](#)





extension api





# extension anschalten

```
$ cat ~/.hgrc  
[extensions]  
prompt =  
subversion = /home/dsp/svn/hgsvn.py
```



# extension auswahl

- mq
- color
- graphlog
- pager
- zeroconf



# extensions

```
from mercurial.i18n import _
from mercurial import extensions, util, config

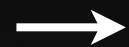
def extsetup(ui):
    pass

def reposetup(ui, repo):
    pass

cmdtable = {
    „gpn11”: (gpn11, [], _ („hg gpn11`"))
}
```



extsetup



uisetup



reposetup

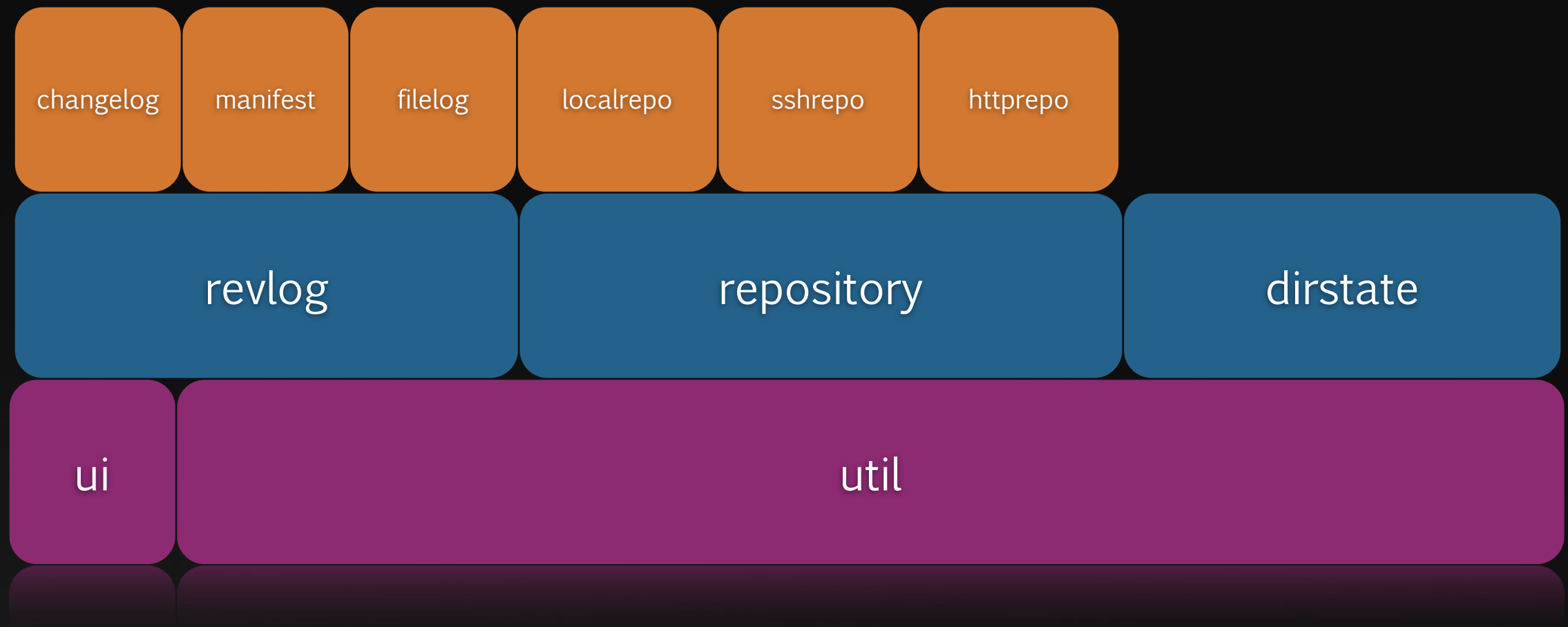


# demo teil 1



# ui

- ui.write
- ui.warn
- ui.notice
- ui.status
- ui.debug
- util.Abort





# localrepo





# lookups

- `repo[id]` oder `repo.lookup(id)`
  - `id = rev, nodeid,`
  - `repo[id].description()` - commit message
  - `repo[id].branch()`



rev walk





# wrapping



# wrapping existing funcs

```
def mycommit(origfunc, ui, repo, *pats, **opts):  
    return origfunc(ui, repo pats, opts)  
  
entry = extensions.wrapcommand(commands.table,  
    'commit', mycommit)  
  
entry[1].append(('t', 'test', False,  
    _("our commit test switch")))
```



stability



fragen?