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MacTech Conference 2010

Edward Marczak - The State of Mac IT



The State of Mac IT

► We're behind.

Invention of Unix
1969
"Simple" Systems

Unix Fourth Edition
1973
Rewritten in C

Apple II Introduced
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4BSD incorporates TCP/IP
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Introduction of the Macintosh
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"No System Administrator Required"

Personal Computers
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Specialization

Microsoft Introduces Windows
1985

Computers Accepted in Businesses
1987

Classified Ads looking for "Database Administrators"
1989

Fracture in full swing
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Network group, hardware group, database team, development and System Administrators largely adding accounts.

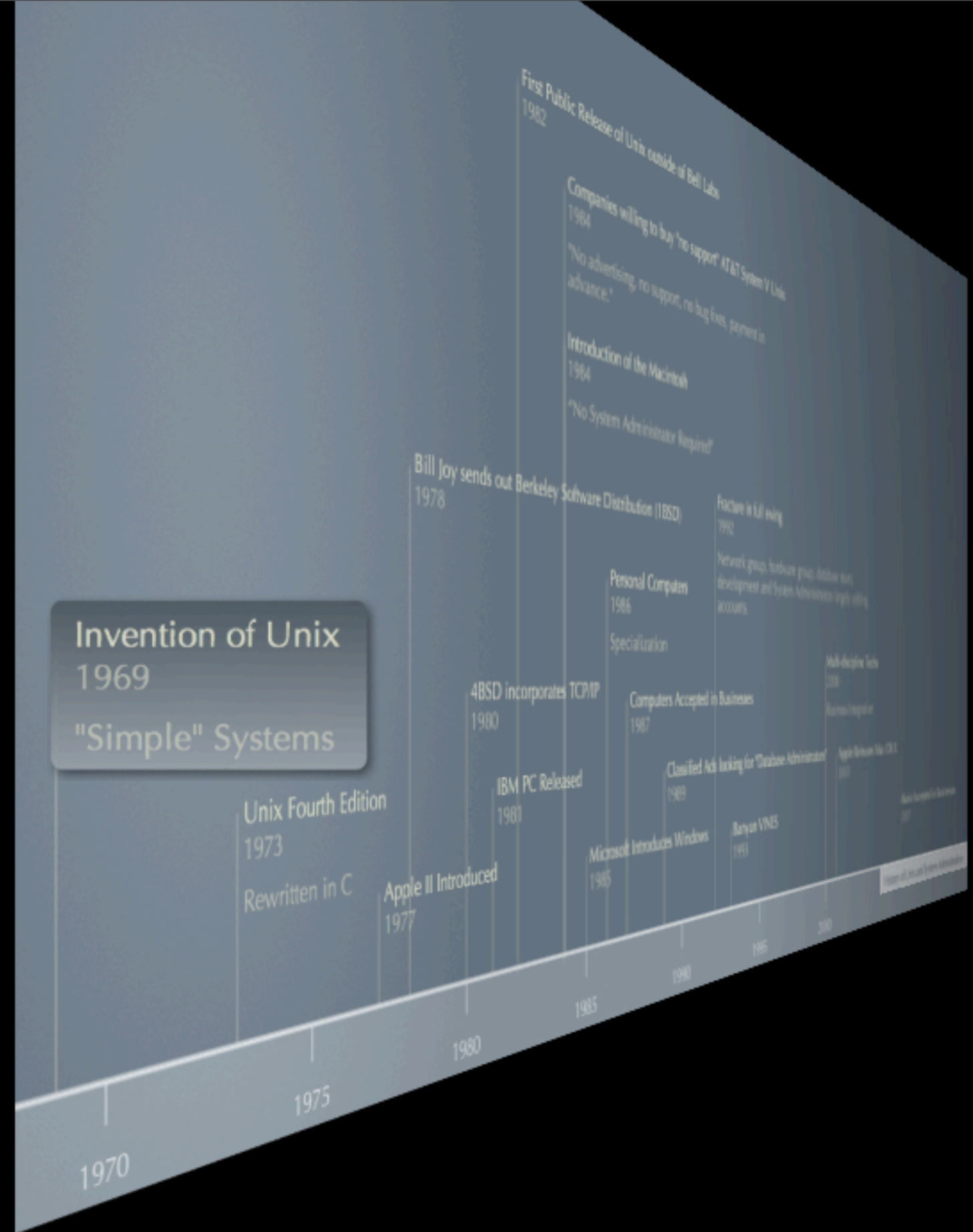
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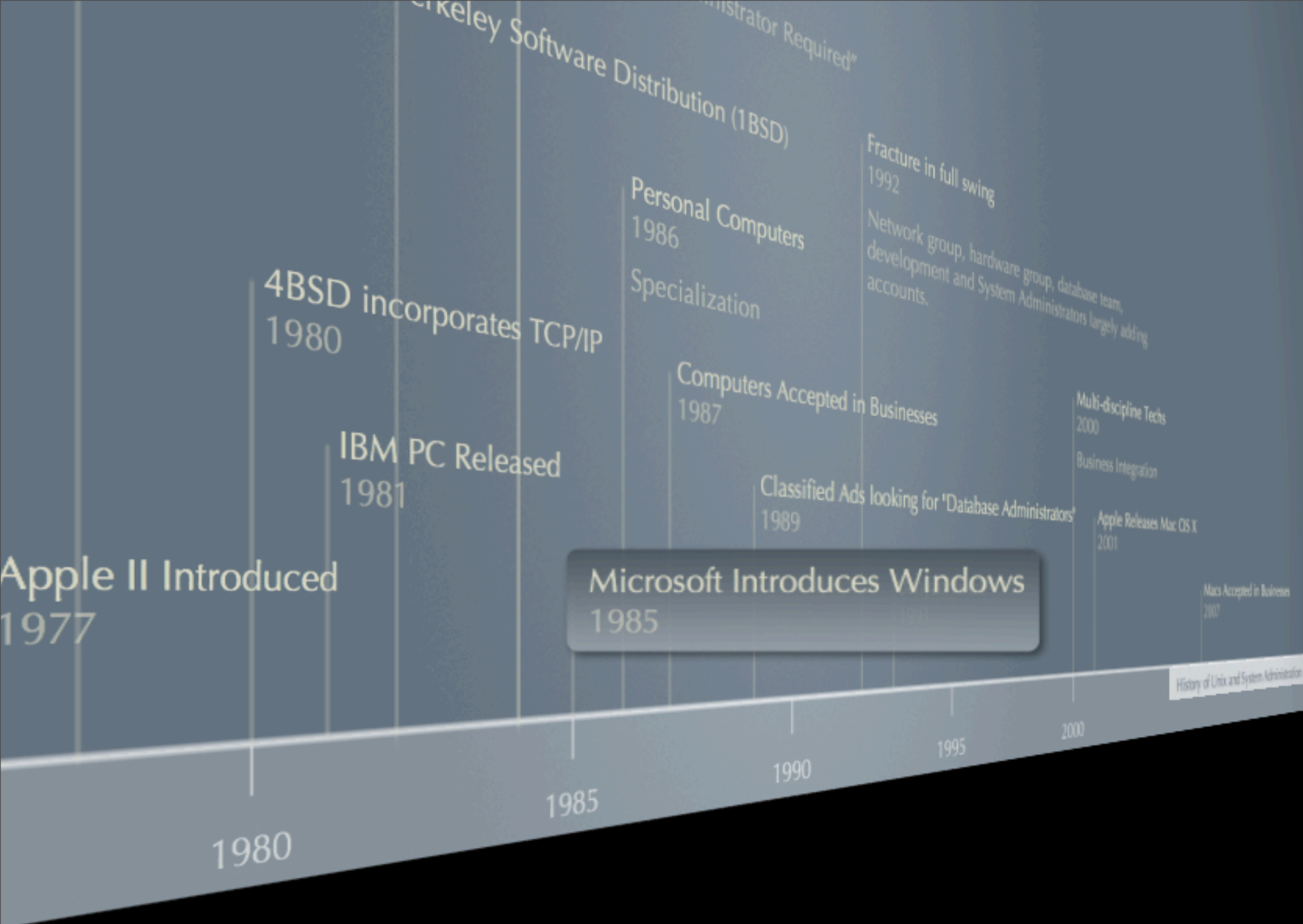
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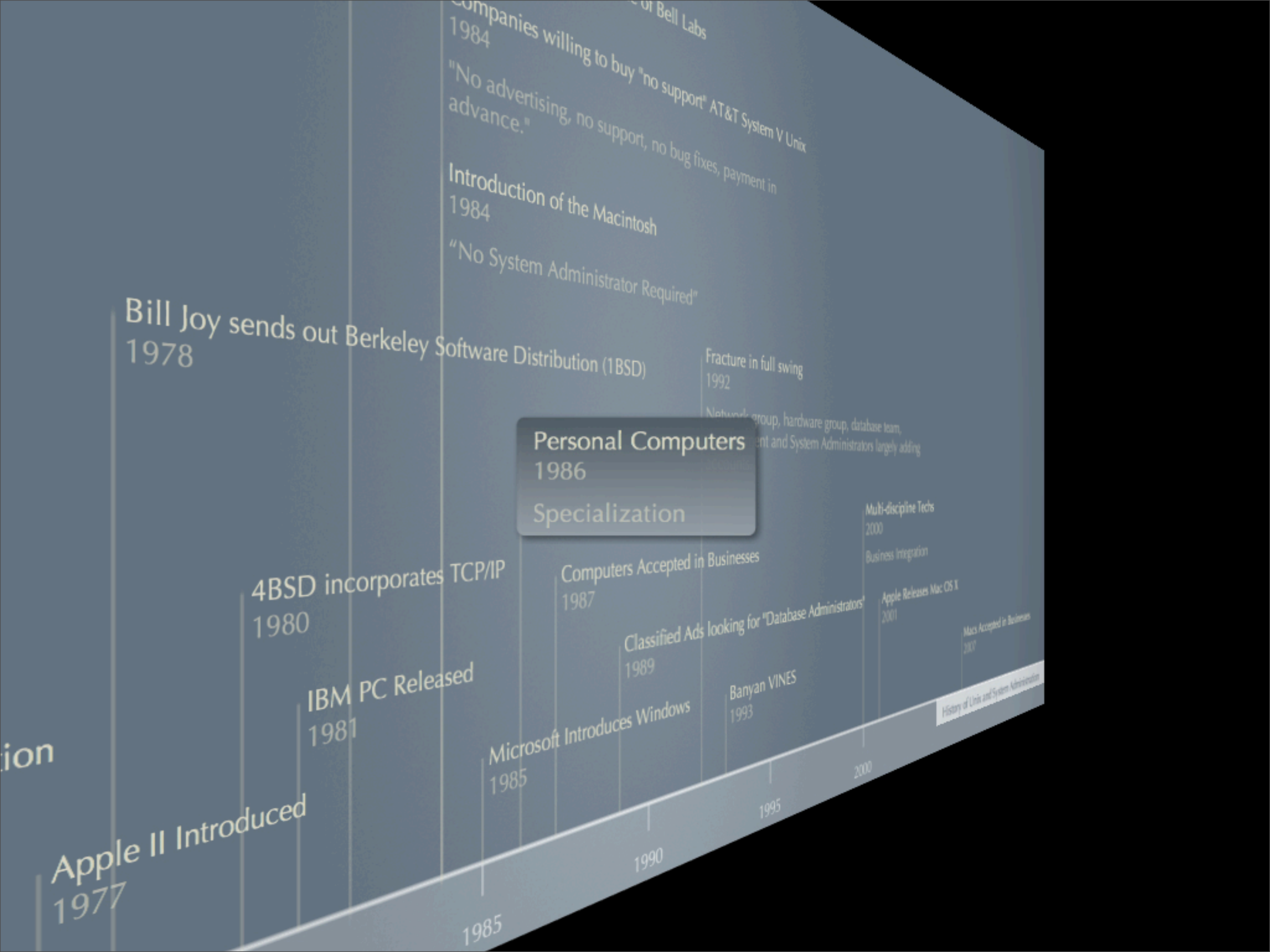
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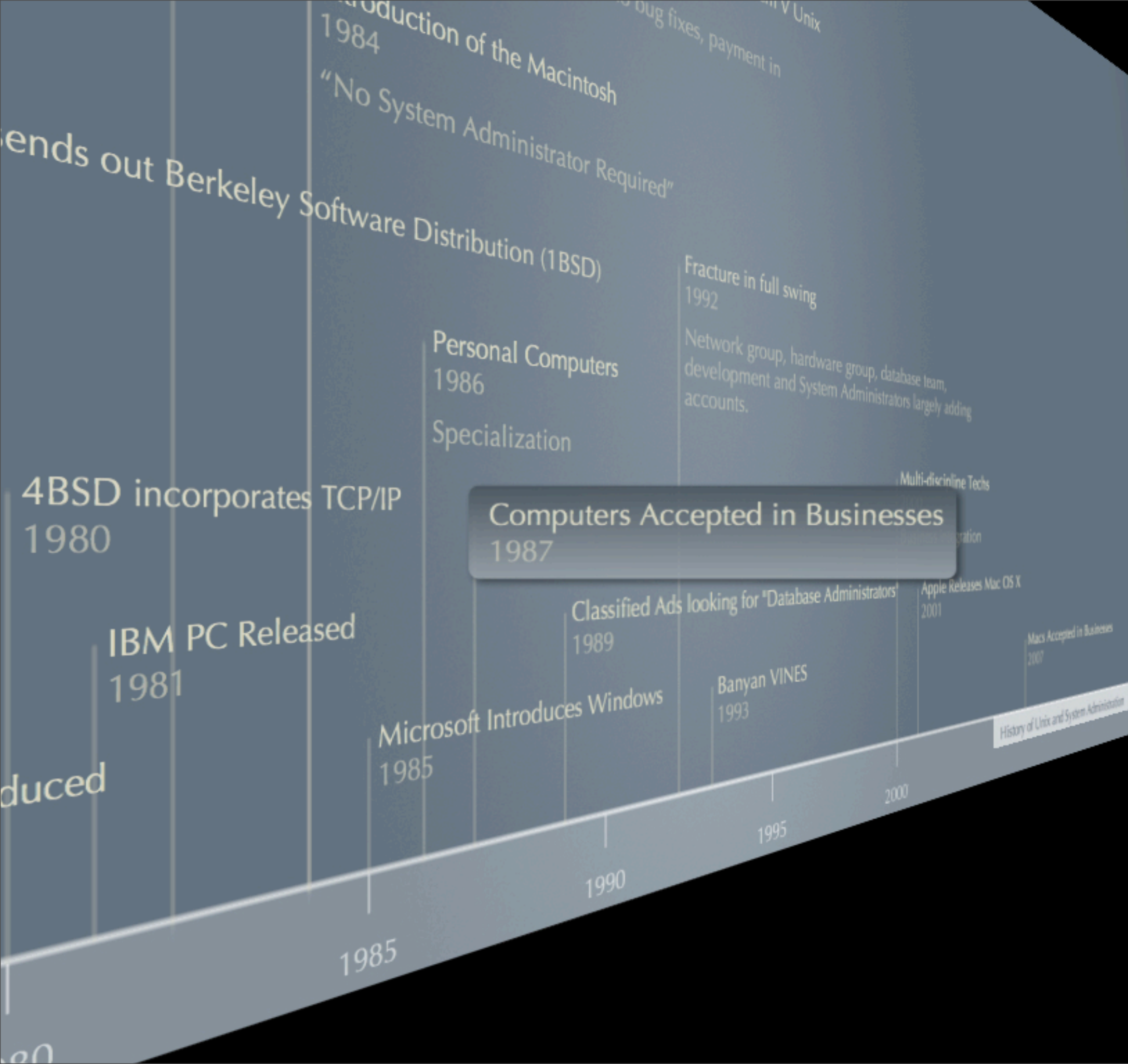
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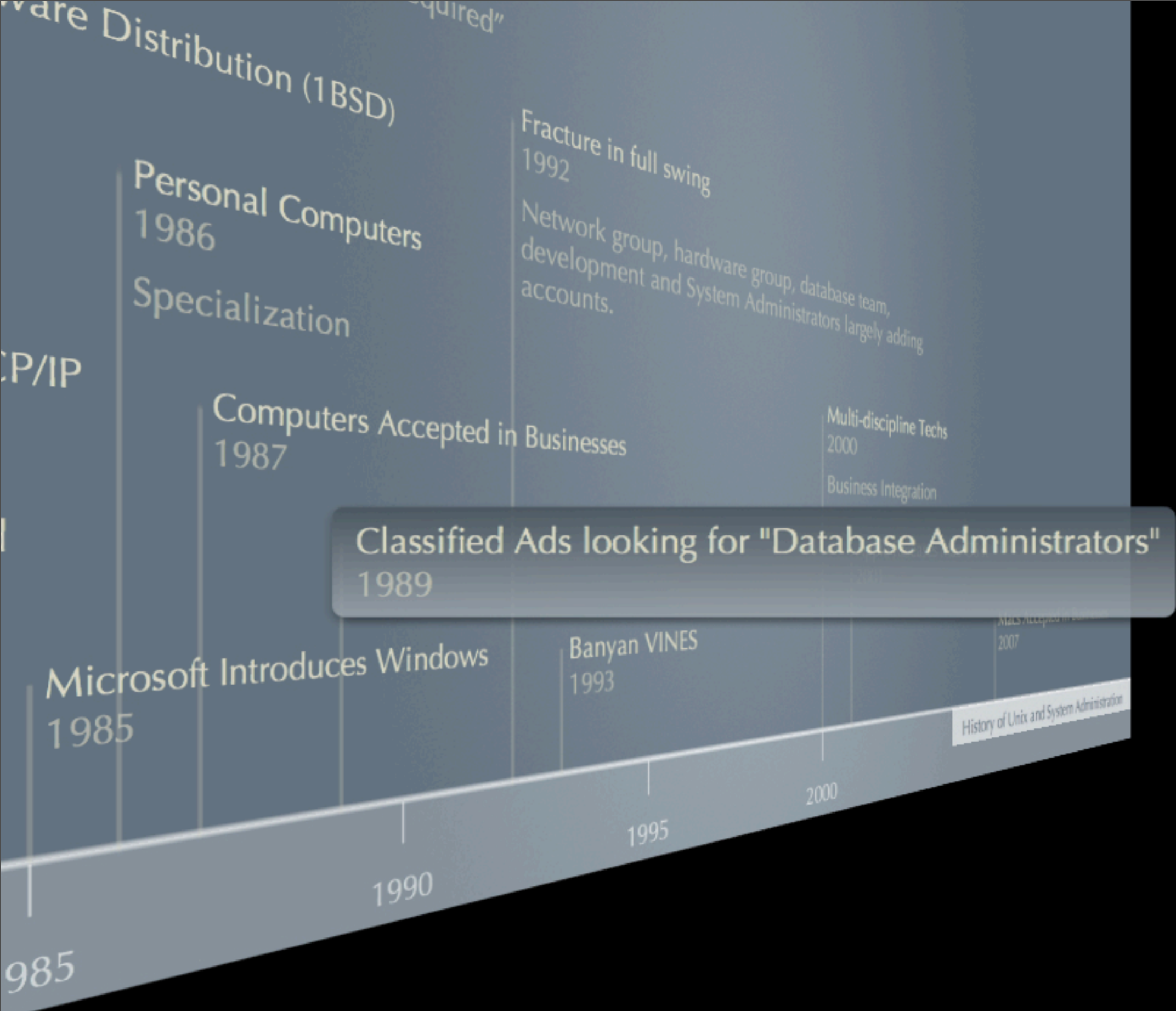
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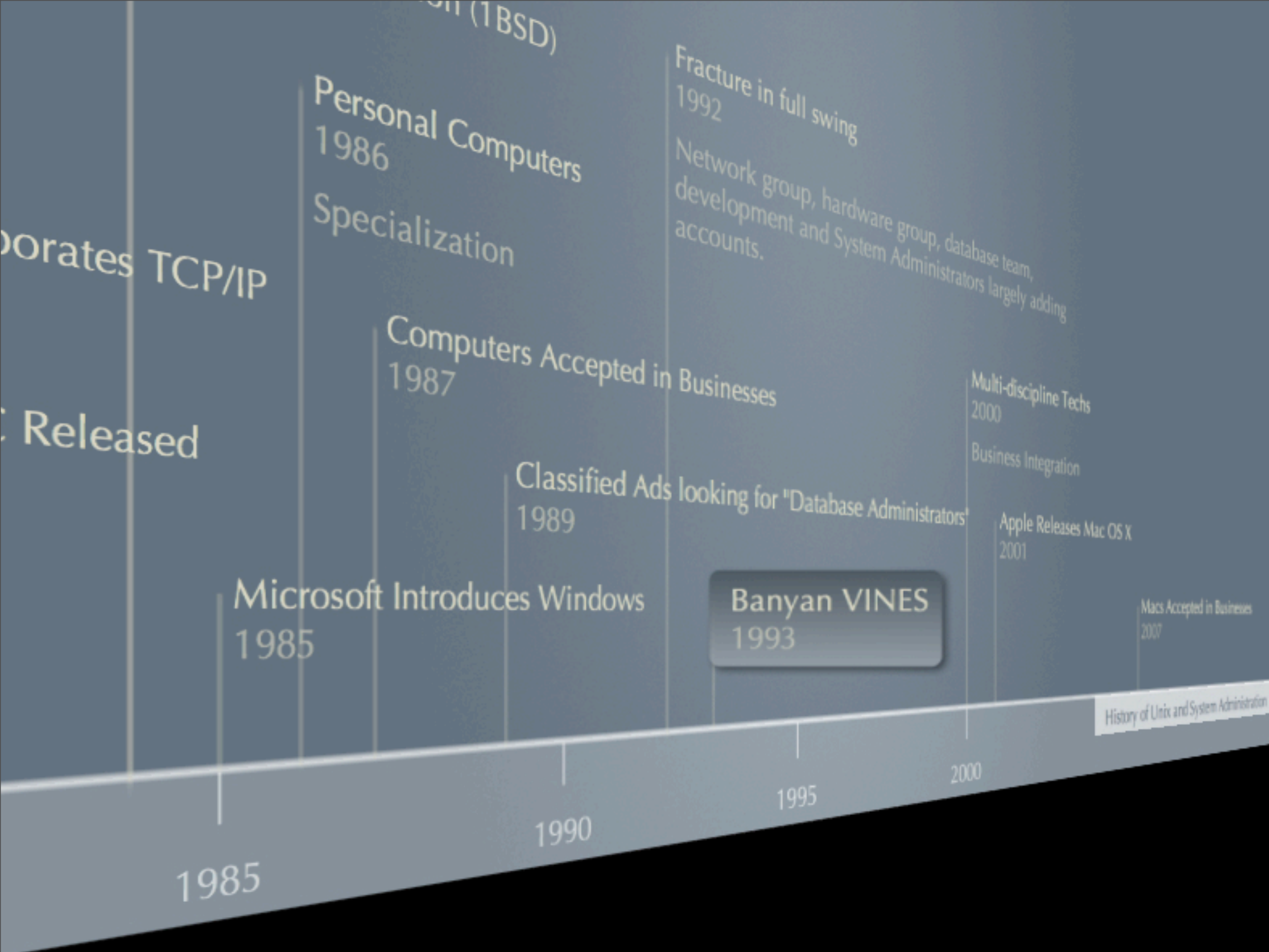
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Microsoft's Advantage



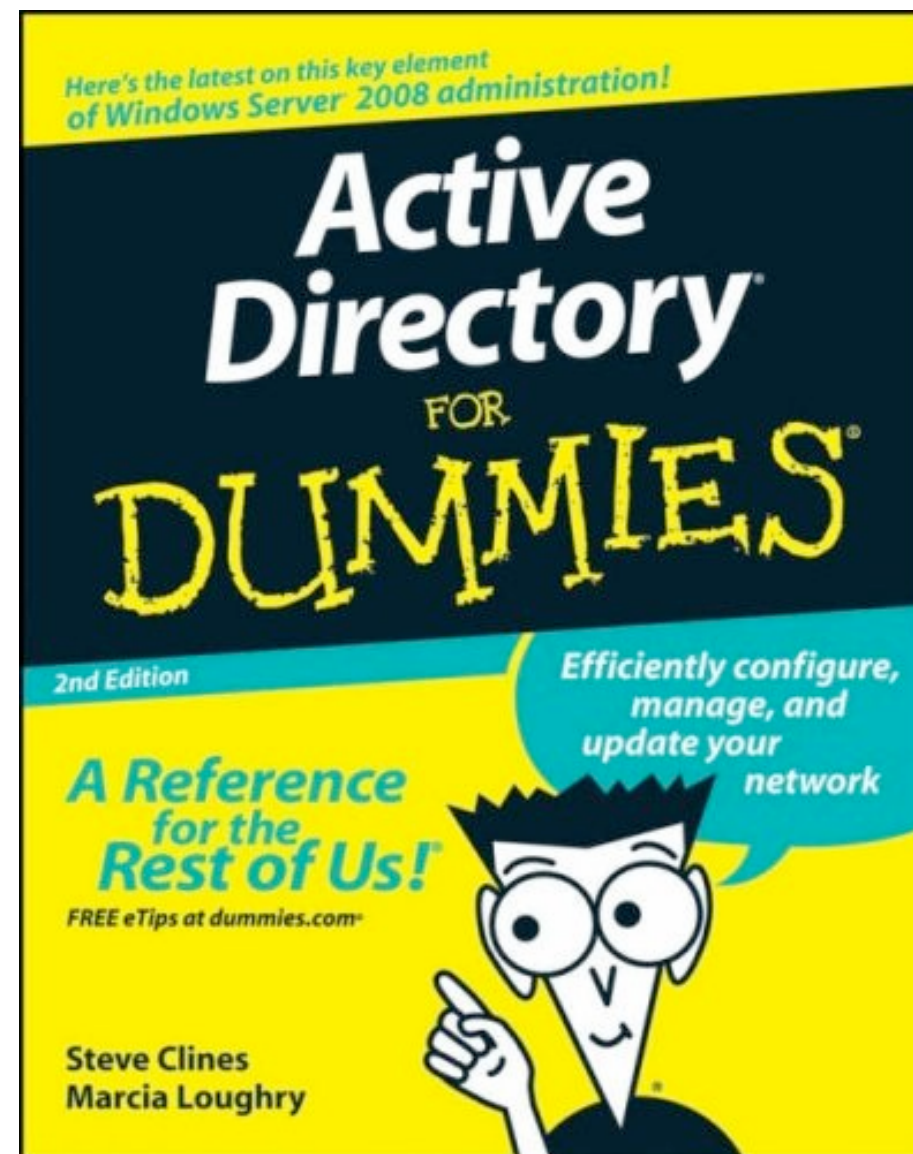
Microsoft's Advantage



Sometimes I just popup for no particular reason, like now.



Microsoft's Advantage



Microsoft's Advantage



Apple's Advantage



```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\Administrator>dir
Volume in drive C has no label.
Volume Serial Number is B0A5-5DF8

Directory of C:\Documents and Settings\Administrator

08/11/2004  09:05 AM    <DIR>          .
08/11/2004  09:05 AM    <DIR>          ..
08/11/2004  08:16 AM    <DIR>          Start Menu
07/28/2005  12:15 PM    <DIR>          My Documents
07/28/2005  12:15 PM    <DIR>          Favorites
08/11/2004  08:16 AM    <DIR>          Desktop
               0 File(s)                0 bytes
               6 Dir(s)  13,418,954,752 bytes free

C:\Documents and Settings\Administrator>
```



```

arch.bugs 24 03.05.2007 01:50 Chris Bannister [ |> ]
list.9fans 69
list.arch 10343
list.arch-dev 1073
list.arch-projects 134
list.archie 46
list.boost-users 11961
list.klibc 680
list.linux-hotplug-devel 1678
list.luni 3180
list.monotone-devel 468
list.mutt-users 3543(3506)
list.pacman-dev 1215
list.ratpoison-devel 382
list.rxvt-unicode 235
list.screen-users 776
list.tur-users 2745
list.vim 18879
list.vim-dev 6290
comp.lang.c++ 0
comp.os.linux 0
comp.std.c++ 0
comp.std.unix 0

```

03.05.2007 01:50 Chris Bannister [|>]

* Mutt: ~/mail/list.mutt-users [Msgs:3543 New:2 Old:3504 11M]---(threads/reverse-date)----- (1%)---

> I also have

> set realname="Matthew R. Dempsey"

> set from="mrd@alkemio.org"

> set use_from

> set envelope_from

> set reverse_name=yes

> (and a bunch of alternatives) in my .muttrc to use mrd@alkemio.org by default. I only want to use matthew.dempsky@student.utdallas.edu when sending email to school faculty/staff.

> I tried using

> send-hook ... 'set from=matthew.dempsky@student.utdallas.edu'

> but that sets the from address for all future emails and not the current one. Is there a different way you had in mind?

The "canonical" way, I believe, is:

```

set from="mrd@alkemio.org"
set use_from
# unset overriding header in default hook
send-hook ~A 'un_myhdr From:'
# set overriding header

```

L- 36/3543: Christian Ebert Re: Adding a Bcc in a send-hook -- (88%)

```
(( 0$ phrik 1-$ irc )2 mutt( 3$ jabber 4$ ~/d/pacman-lib 5$ ~ ))
```

```
< [:0 remote:] 1 ~ 2- vim >
```

```

=(S0GJT=
GTDJHGGFCVS)
,GTDJGGDTDFBGX0
JDJDJHRRORVFSBSVL-+=,
IJFDUFHJNXIXCDXDSV, "DEBL
|LKDSJTDU=OUSCSBFLD. 'ZWX,
LMSDSWH=' ?DCBOSI DRDS], Arch Linux 0.8 (Voodoo)
SDDDFDH' 'OYEW, )HROD GNU/Linux 2.6.20-ARCH i686
!KMDOCG &GSU|_GFHRGO'
HKLSP' TKMOGHRBV)'
JSNRVW' +MNAECIOI,BN'
HELK[' ,=OFFXCBGHCFD)
JKGHEH_-#DA5DFSLSV=' 'EF
!EHTI !H
'OF' !

```

```

griff@lenovo:~$ import -window root screenshot-20070305122500.png
griff@lenovo:~$ rm sc
scheme.py screenshot-20070227212700.png
screen-test screenshot-20070305122500.png
griff@lenovo:~$ rm scree
screen-test screenshot-20070305122500.png
screenshot-20070227212700.png
griff@lenovo:~$ rm screens
screenshot-20070227212700.png screenshot-20070305122500.png
griff@lenovo:~$ rm screenshot-20070*
griff@lenovo:~$ import -window root screenshot-20070305122500.png

```

```

106 _alpm_log(PM_LOG_DEBUG, _("checkconflicts: target '%s' vs db"), pkgname);
107
108 for(j = _alpm_db_get_pkgcache(db); j; j = j->next) {
109     pmpkg_t *dbpkg = j->data;
110
111     if(strcmp(alpm_pkg_get_name(dbpkg), pkgname) == 0) {
112         /* skip the package we're currently processing */
113         continue;
114     }
115
116     miss = does_conflict(pkgname, alpm_pkg_get_name(dbpkg), dbpkg, conflict);
117     if(miss && !_alpm_depmiss_isin(miss, baddeps)) {
118         baddeps = alpm_list_add(baddeps, miss);
119     } else {
120         FREE(miss);
121     }
122 }
123 }
124 return(baddeps);
125 }
126
127 static alpm_list_t *chk_pkg_vs_targets(alpm_list_t *baddeps,
128     pmpkg_t *pkg, pmdb_t *db,
129     alpm_list_t *targets)
130 {
131     pmdepmissing_t *miss = NULL;
132     const char *pkgname;
133     alpm_list_t *i, *j;
134
135     pkgname = alpm_pkg_get_name(pkg);
136
137     for(i = alpm_pkg_get_conflicts(pkg); i; i = i->next) {
138         const char *conflict = i->data;
139
140         if(strcmp(pkgname, conflict) == 0) {

```

How can we do better?

- IT people need to become developers.
- Development tools
 - Revision control
 - diff
 - hex dumps
- Develop!
 - Find an itch and scratch it.

```
section .text
    global _start
```

```
_start:
```

```
    mov     edx, len
    mov     ecx, msg
    mov     ebx, 1
    mov     eax, 4
    int     0x80
```

```
    mov     eax, 1
    int     0x80
```

```
section .data
```

```
msg     db 'Hello, world!', 0xa
len     equ $ - msg
```




```
#include<stdio.h>
```

```
main()
```

```
{
```

```
    printf("Hello World");
```

```
}
```

```
print "Hello World"
```





“

I've recently been given the task to write a script to delete anything older than 3 days in a given directory... any suggestions?

”





“

Is there any way that I can write a script that mounts a disk, copies files to it, then unmounts it?

”





“

I'd like to bind all new Macs to our LDAP server. Is there a terminal command (or script) that can do this?

”





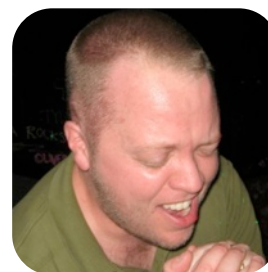
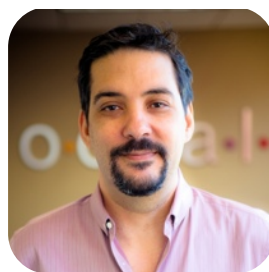
“

pyMacAdmin

A collection of Python utilities for Mac OS X
system administration.

”

<http://code.google.com/p/pymacadmin/>



pyMacAdmin

- Create network locations.
- Manage directory services.
- Manage proxy settings.
- Update AirPort passwords.



😊 marczak / MTCBot

🔧 Admin

👁️ Unwatch

🔗 Pull Request

👁️ 1

🔗 1

Source

Commits

Network

Pull Requests (0)

Fork Queue

Issues (0)

Wiki (0)

Graphs

Branch: master

Switch Branches (1) ▾

Switch Tags (0)

Branch List

The Twitter reflector-bot being used for MacTech Conference — [Read more](#)

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📄 Downloads

SSH

HTTP

Git Read-Only

git@github.com:marczak/MTCBot.git



This URL has **Read+Write** access

Don't attempt logic while hepped up on goofballs.



marczak (author)

October 19, 2010

commit 44c7de5adc215f3caa6d

tree 84826a4e24e18d8a98c9

parent fad20f03a354e1e962ae

<http://github.com/marczak/MTCBot>

The State of Mac IT

- We're behind.
- We can do better.
- We do better by doing.
- Find something that needs solving and solve it.



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