#### UNIX

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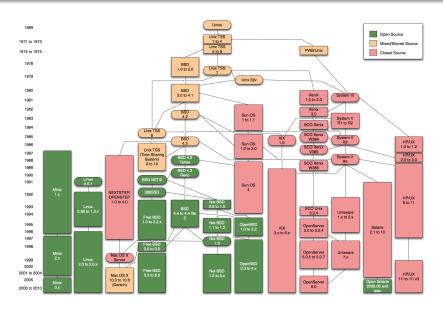
## Section 1

# UNIX

## Subsection 1

History

## Diagram



# Multics

#### 1960

## Companies

- MIT
- AT&T Bell labs
- General Electric

#### AT&T Bell Labs 1970

## Developers

- Ken Thompson
- Dennis Ritchie

# Berkeley Unix

1974

Licensed by AT&T

# Berkeley Software Distribution

1979

- vi
- csh

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June 1989

Basis for

- NetBSD
- FreeBSD

Under BSD License

# Minix

#### Andrew S. Tannenbaum

- For teaching
- Not BSD
- GPL

# Linux

## Linus Torvalds

- Inspired by Minix
- Not BSD
- GPL

## **NetBSD**

Computer Systems Research Group of the University of California, Berkeley

- Started in 1993 from Net/2 and 386BSD
- BSD License (two, three, and four-clause variants)
- Portable

#### Founders:

- Chris Demetriou
- Theo de Raadt
- Adam Glass
- Charles Hannum

## FreeBSD

- Started in 1993 also from 386BSD
- FreeBSD 2.0 in 1994, without code from AT&T
- $\bullet$   $\mbox{\bf Fast}$  jemalloc in base

## OpenBSD

#### Theo de Raadt

- forked from NetBSD in 1995
- Secure by default
- Home of CARP, cwm, httpd, LibreSSL, OpenBGPD, OpenIKED, OpenNTPD, OpenOSPFD, OpenRsync, OpenSMTPD, OpenSSH, PF, pfsync, sndio, spamd, Xenocara

## Darwin

- Forked from FreeBSD by Apple Inc. in 2000
- Includes code from NeXTSTEP and Mach
- Basis for MacOS X, iOS, iPadOS
- Apple Public Source License (APSL), with closed-source drivers