EXHIBIT I
Volume 1

27th Chaos Communication Congress

Console Hacking 2010

PS3 Epic Fail

failOverflow

bushing, marcan, segher, sven

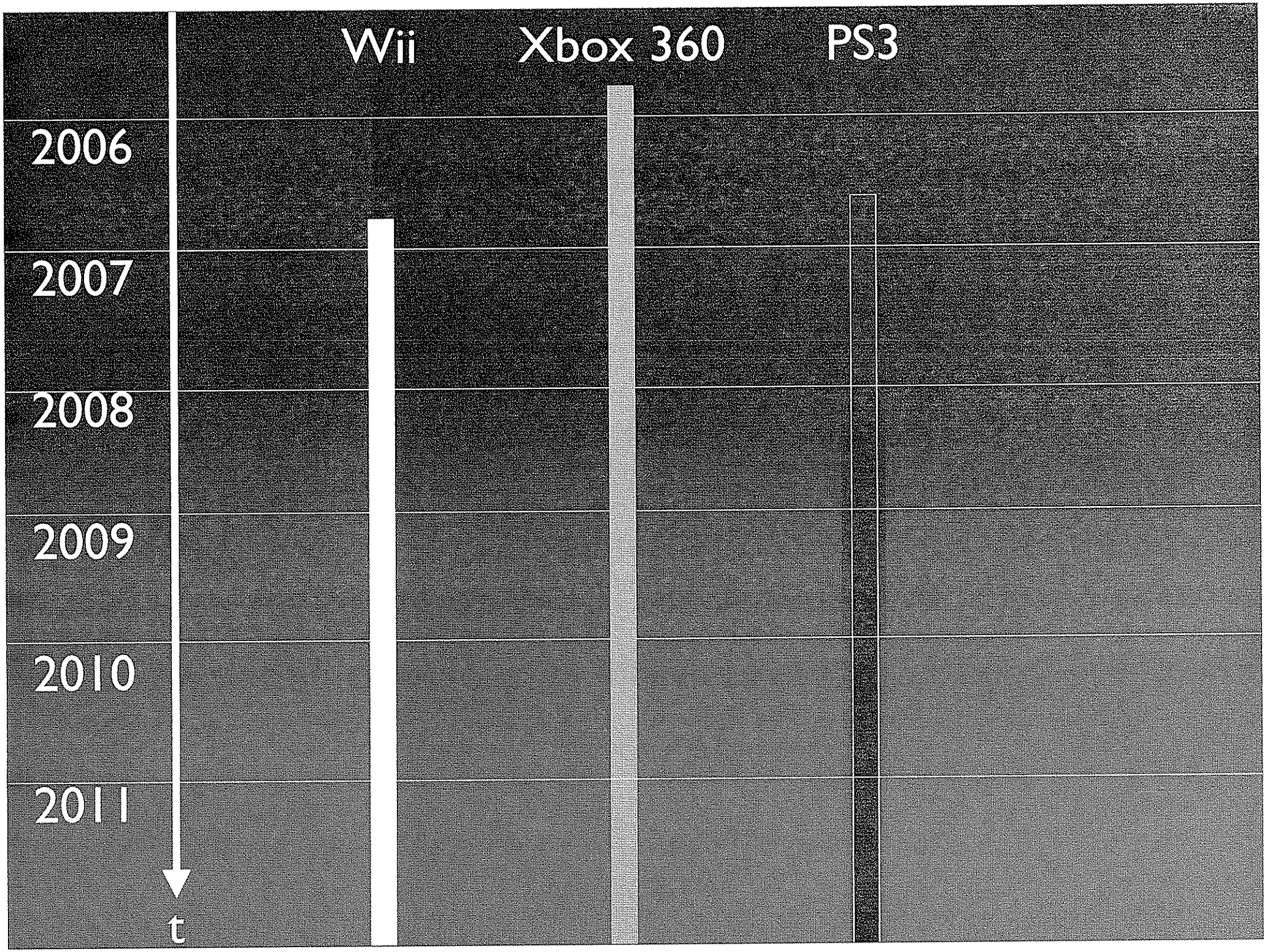
Who are we?

- In 2008 at 25c3 these teams worked together as 'WiiPhonies'
- We won the 25c3 CTF
- We changed our name to 'Fail 0verflow'
  - Not trademark infringing
  - The domain was available
  - The ratio of fail to win is high.

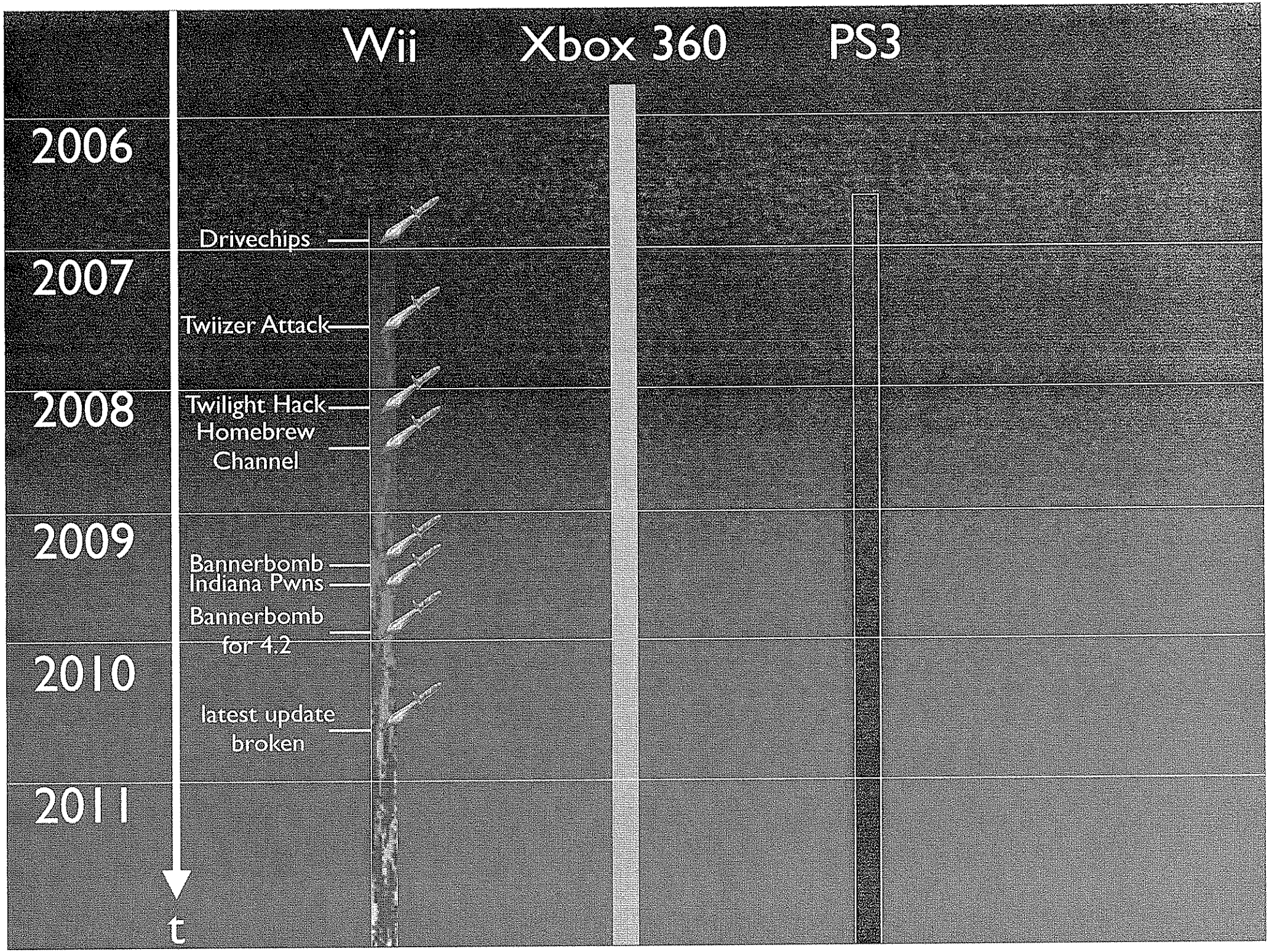
We've been collaborating on various embedded and thought expansive projects, the most famous of which that hit the press earlier this year was the full reconstruction of the $REDACTED allowing $REDACTED to be completely broken, that was a fun couple of weeks.

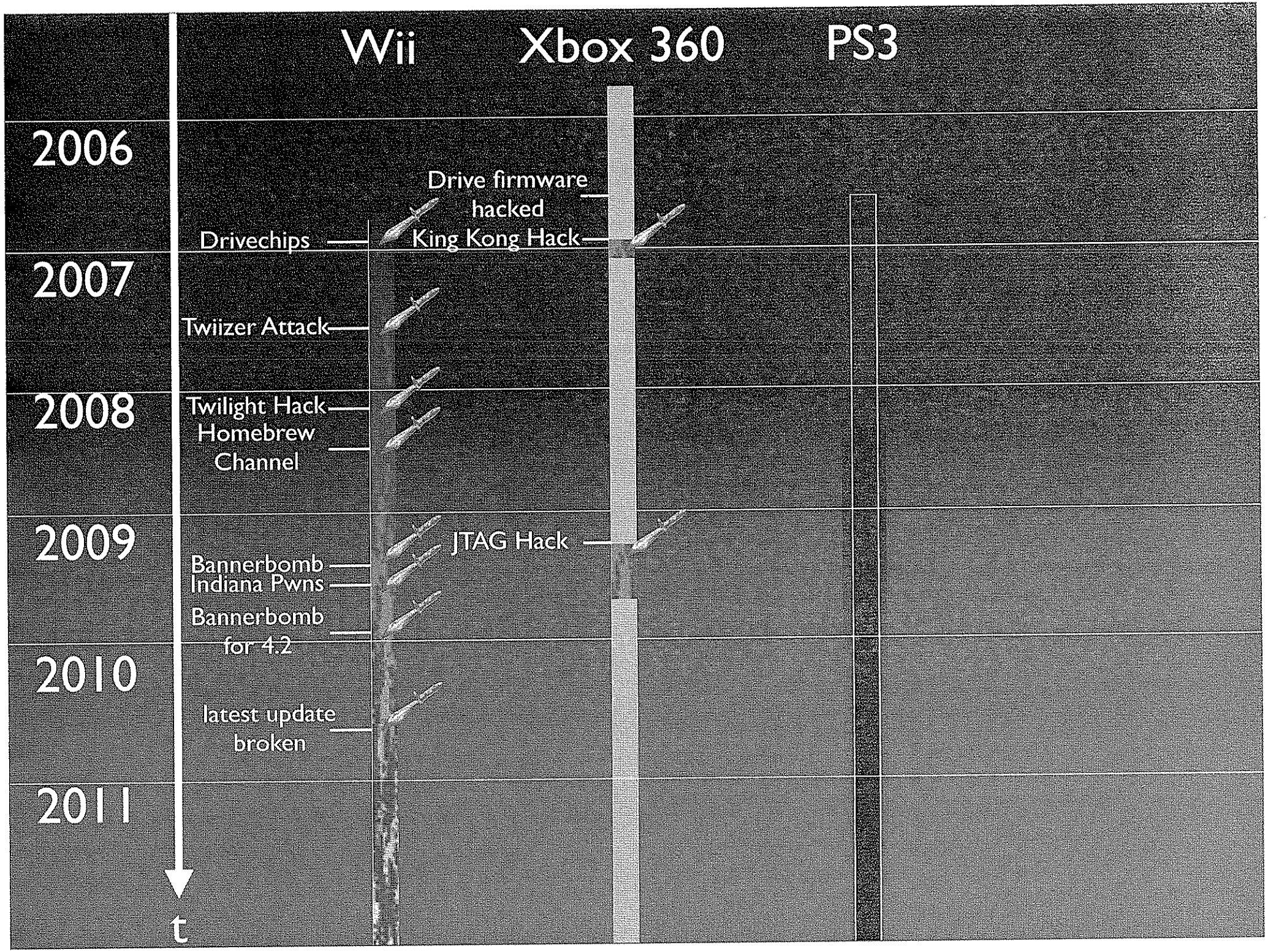
Wii had a good run

- 3 years, 9 firmware updates, 1 real feature
- 73 mil. consoles, 30 mil. vuln. bootloaders
- 1 million users of Homebrew Channel



Mittwoch, 29. Dezember 2010


Wii
Xbox 360
PS3
2006
2007
2008
2009
2010
2011
t
Drivechips
Twiizer Attack
Twilight Hack
Homebrew
Channel
Bannerbomb
Indiana Pwns
Bannerbomb
for 4.2
latest update
broken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Drive firmware hacked
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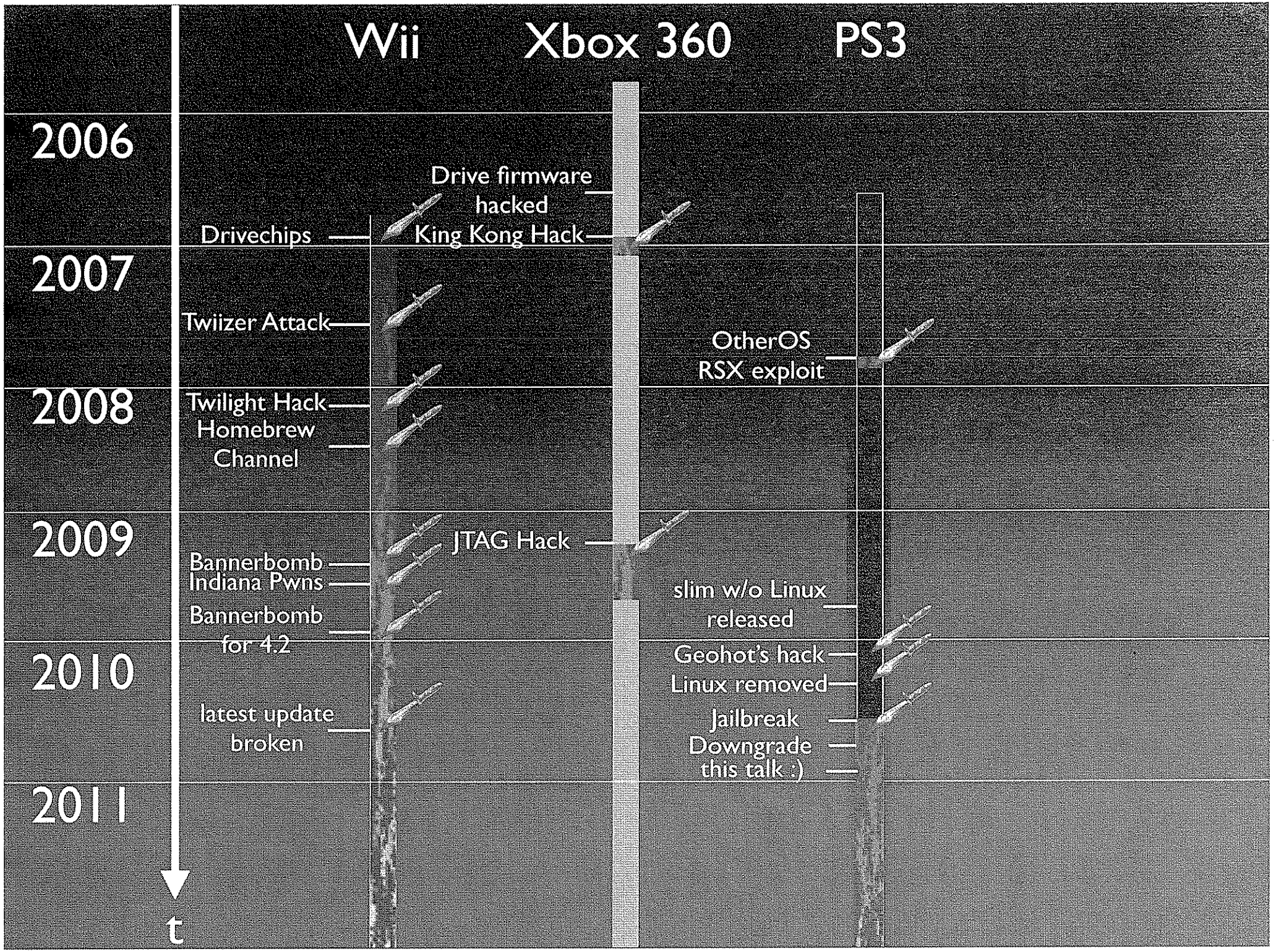
Wii
Xbox 360
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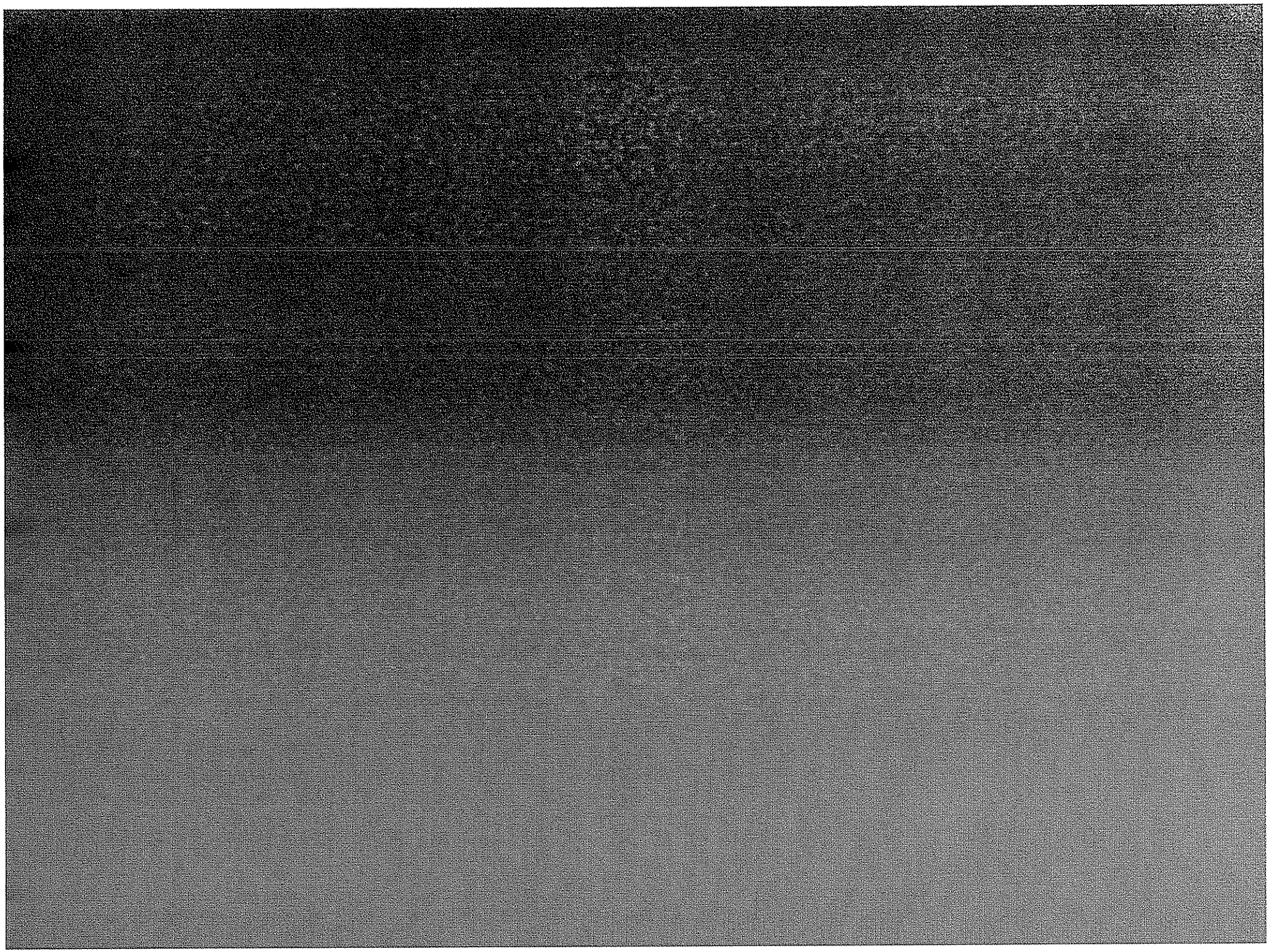
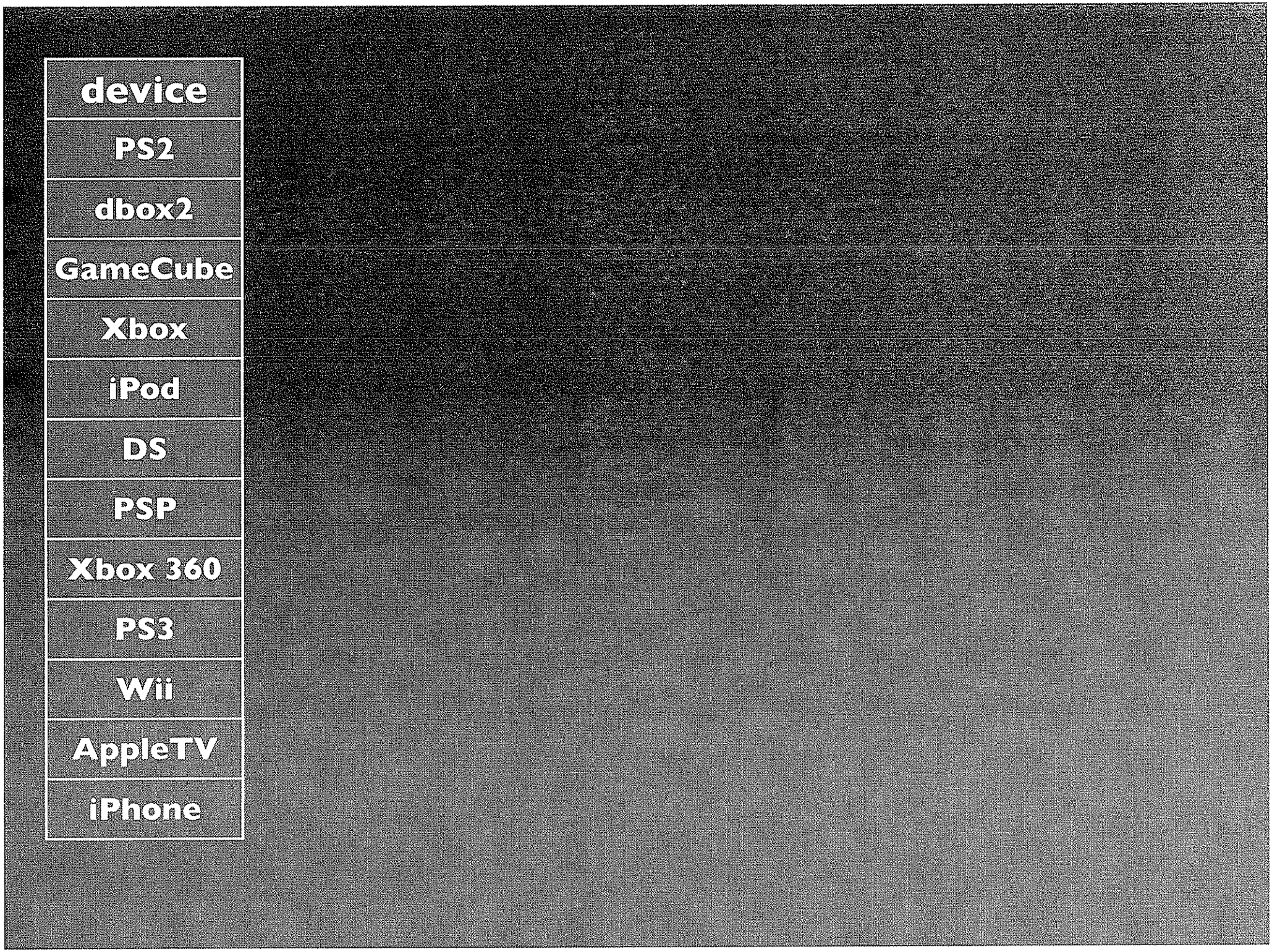
2006
2007
2008
2009
2010
2011
t
Drive firmware hacked
Drivechips
King Kong Hack
Twiizer Attack
OtherOS
RSX exploit
Twilight Hack
Homebrew Channel
JTAG Hack
Bannerbomb
Indiana Pwns
Bannerbomb for 4.2
slim w/o Linux released
Geohot's hack
Linux removed
latest update broken
Jailbreak
Downgrade this talk :)




device
PS2
dbox2
GameCube
Xbox
iPod
DS
PSP
Xbox 360
PS3
Wii
AppleTV
iPhone

device	y
PS2	1999
dbox2	2000
GameCube	2001
Xbox	2001
iPod	2001
DS	2004
PSP	2004
Xbox 360	2005
PS3	2006
Wii	2006
AppleTV	2007
iPhone	2007

device	y	security
PS2	1999	?
dbox2	2000	signed kernel
GameCube	2001	encrypted boot
Xbox	2001	encrypted/signed bootup, signed executables
iPod	2001	checksum
DS	2004	signed/encrypted executables
PSP	2004	signed bootup/executables
Xbox 360	2005	encrypted/signed bootup,encrypted/signed executables, encrypted RAM, hypervisor, eFuses
PS3	2006	encrypted/signed bootup,encrypted/signed executables, hypervisor, eFuses, isolated SPU
Wii	2006	encrypted bootup
AppleTV	2007	signed bootloader
iPhone	2007	signed/encrypted bootup/executables

device	y	security	hacked
PS2	1999	?	?
dbox2	2000	signed kernel	3 months
GameCube	2001	encrypted boot	12 months
Xbox	2001	encrypted/signed bootup, signed executables	4 months
iPod	2001	checksum	<12 months
DS	2004	signed/encrypted executables	6 months
PSP	2004	signed bootup/executables	2 months
Xbox 360	2005	encrypted/signed bootup,encrypted/signed executables, encrypted RAM, hypervisor, eFuses	12 months
PS3	2006	encrypted/signed bootup,encrypted/signed executables, hypervisor, eFuses, isolated SPU	not yet
Wii	2006	encrypted bootup	1 month
AppleTV	2007	signed bootloader	2 weeks
iPhone	2007	signed/encrypted bootup/executables	11 days