John Buckman <John@magnatune.com>

from Magnatune, BookMooch & Creative Commons.

April 26, 2007.
Antwerp.

"The future is already here.
It's just not very evenly distributed."

- William Gibson

Ray Kurzweil
vs
Bruce Sterling

or...

The Singularity
vs
Blobjects
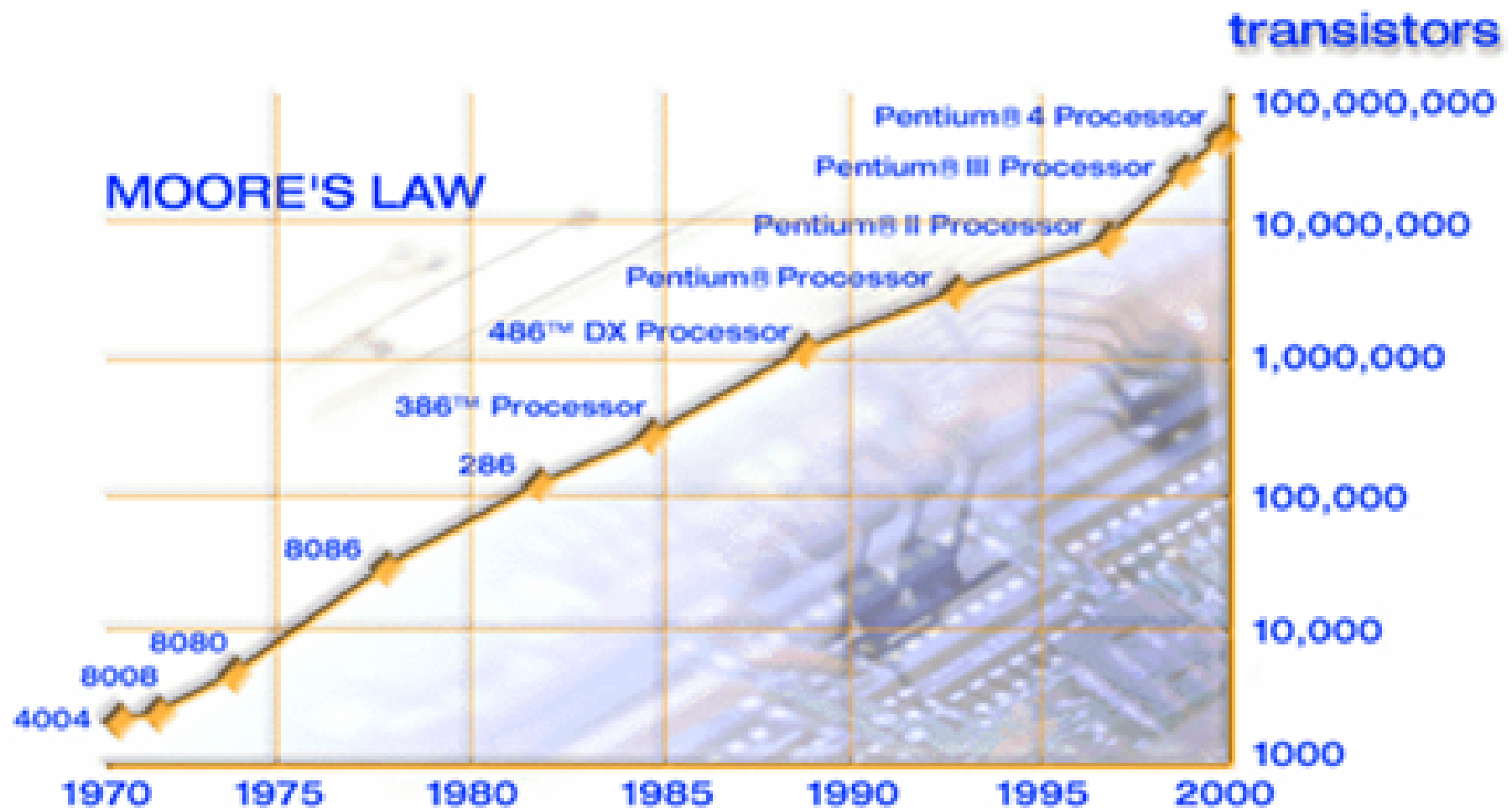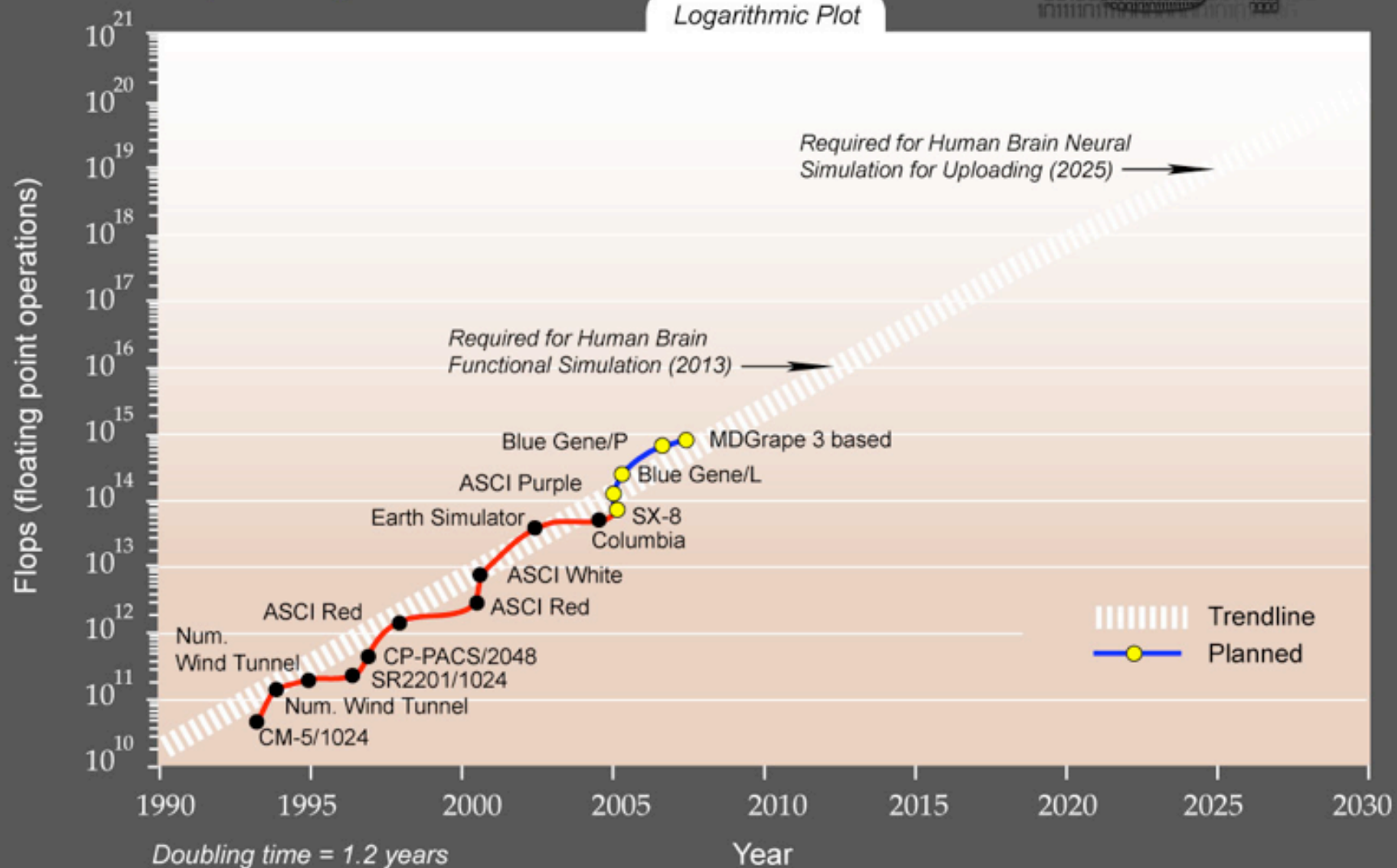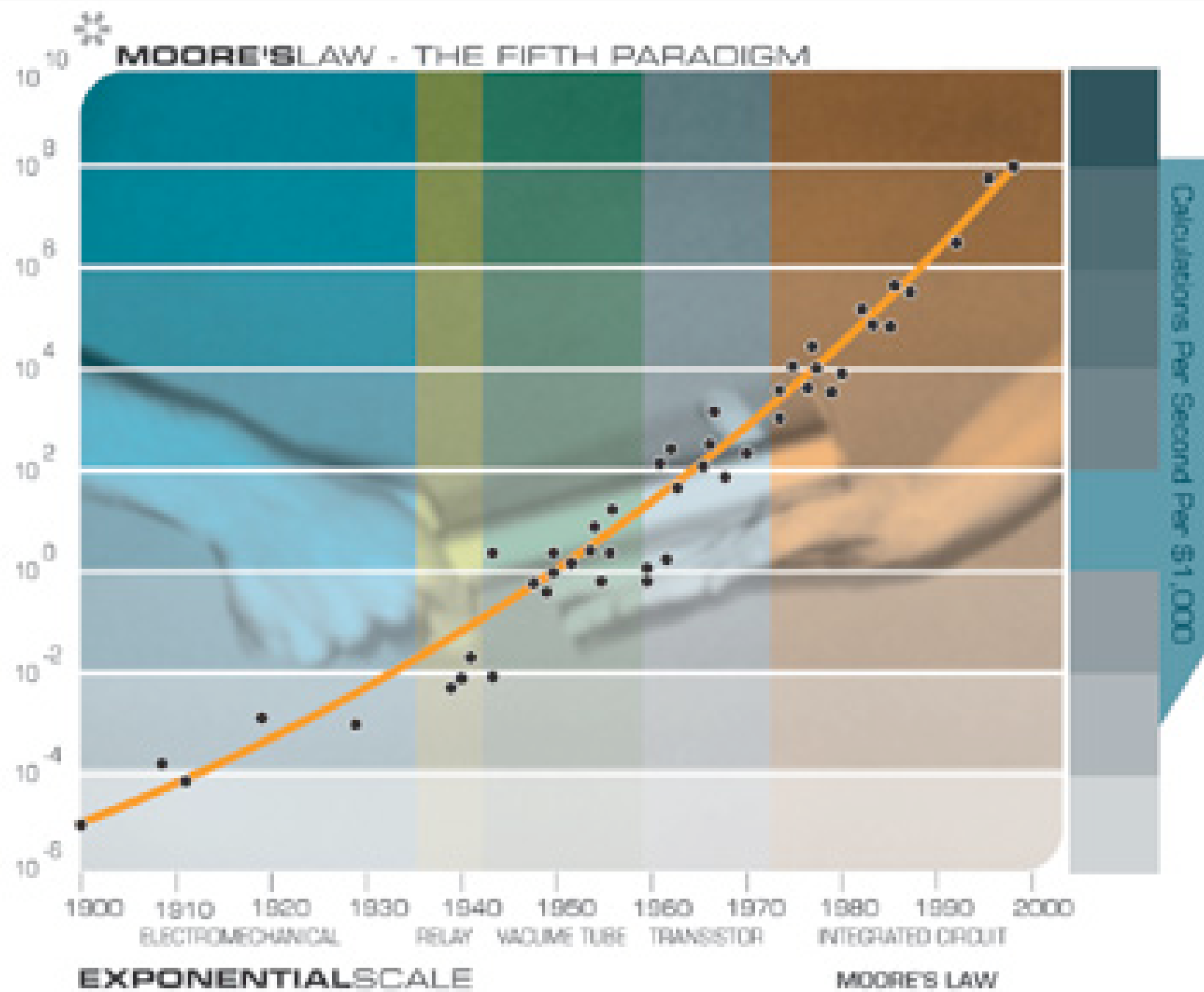
transistors

MOORE'S LAW

Pentium® 4 Processor
Pentium® III Processor
Pentium® II Processor
Pentium® Processor
486™ DX Processor
386™ Processor
286
8086
8080
8008
4004

100,000,000
10,000,000
1,000,000
100,000
10,000
1000

1970   1975   1980   1985   1990   1995   2000

Growth in
Supercomputer Power

Logarithmic Plot

Flops (floating point operations)

Required for Human Brain Neural Simulation for Uploading (2025) →

Required for Human Brain Functional Simulation (2013) →

Blue Gene/P — MDGrape 3 based

ASCI Purple — Blue Gene/L

Earth Simulator — SX-8 — Columbia

ASCI White

ASCI Red — ASCI Red

Num. Wind Tunnel — CP-PACS/2048

ASCI Red — SR2201/1024

Num. Wind Tunnel

CM-5/1024

|||||||| Trendline
——•—— Planned

Doubling time = 1.2 years

Year
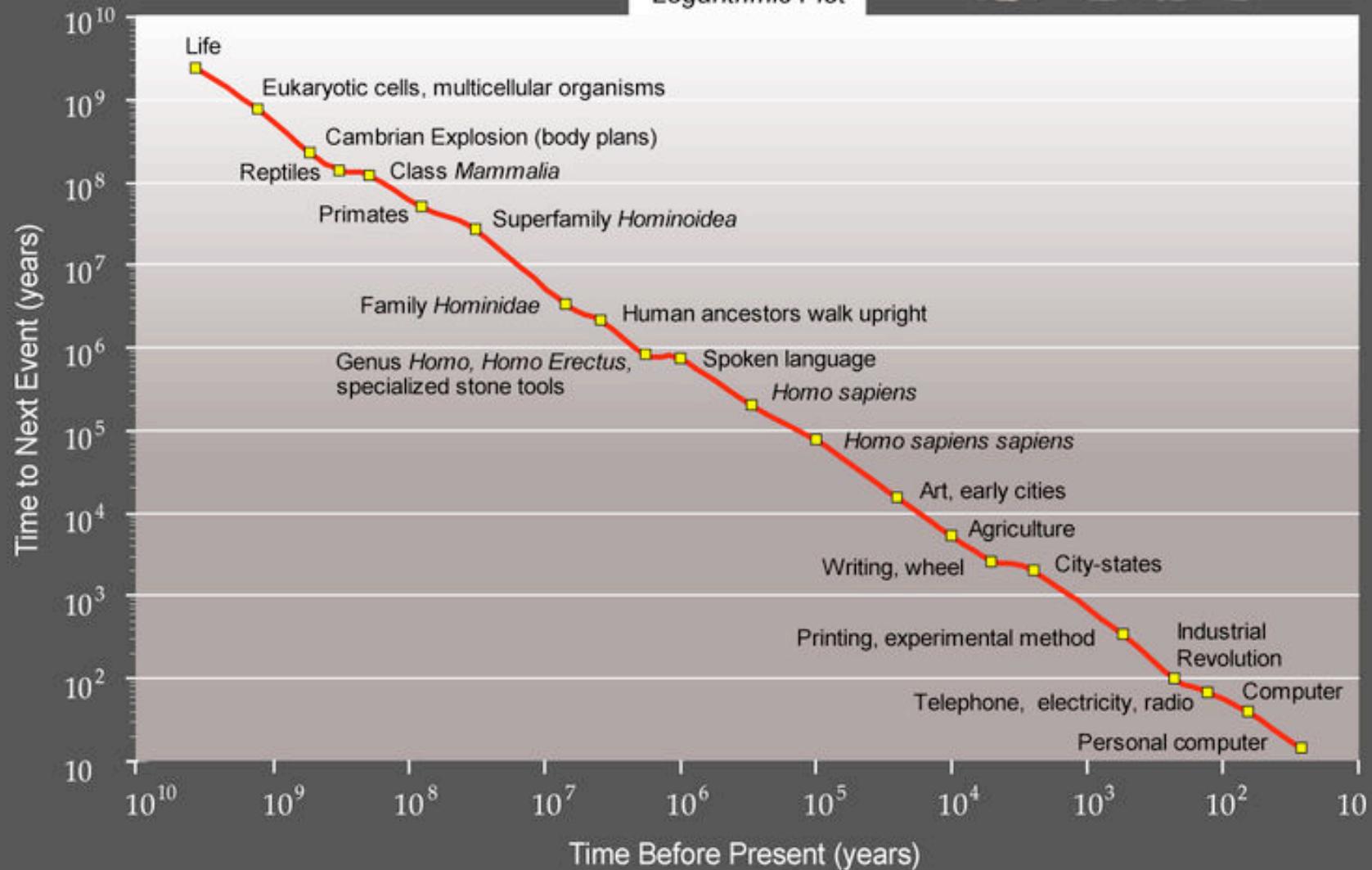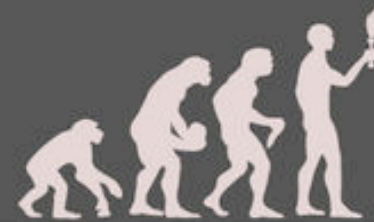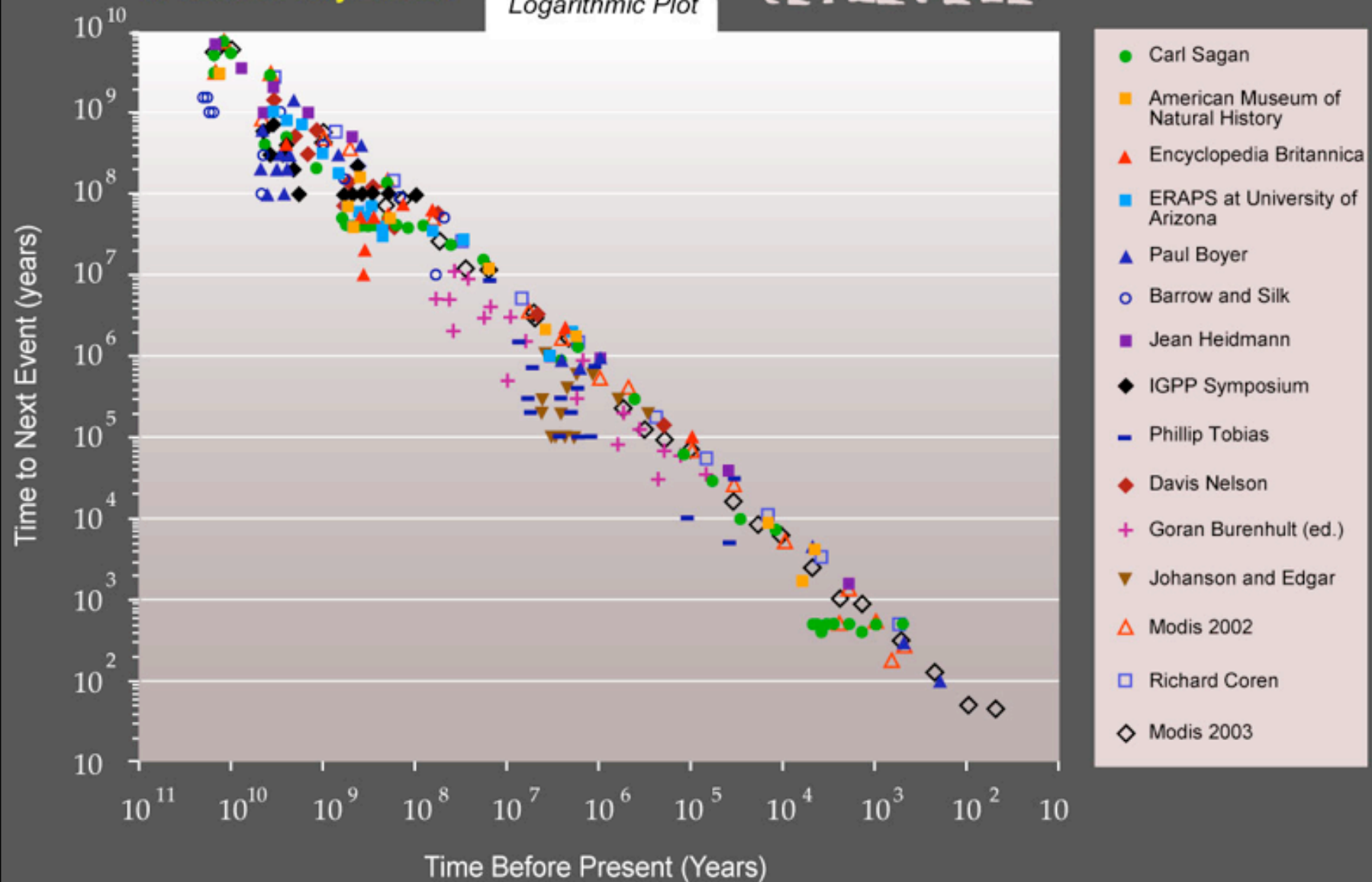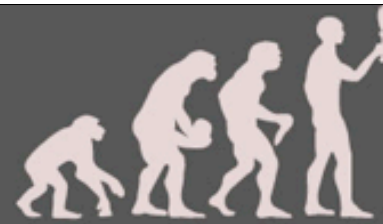
Bruce Sterling's
Vision of the future

Complexity is a big problem.

Especially with software.

On the Internet, "simple" survives.

REST
XML
TCP/IP
RSS
SMTP
HTTP
Web 2.0

We don't know how to build on top of "complicated"

Human beings just aren't that smart.

(which is Kurzweil's main point)

Growth in
Supercomputer Power

Logarithmic Plot

Flops (floating point operations)

10^{21}
10^{20}
10^{19}
10^{18}
10^{17}
10^{16}
10^{15}
10^{14}
10^{13}
10^{12}
10^{11}
10^{10}

Required for Human Brain Neural Simulation for Uploading (2025) →

Required for Human Brain Functional Simulation (2013) →

Blue Gene/P   MDGrape 3 based
ASCI Purple   Blue Gene/L
Earth Simulator   SX-8
Columbia
ASCI White
ASCI Red   ASCI Red
Num.
Wind Tunnel   CP-PACS/2048
SR2201/1024
Num. Wind Tunnel
CM-5/1024

Trendline
Planned

1990   1995   2000   2005   2010   2015   2020   2025   2030

Doubling time = 1.2 years

Year

The semantic web will never happen.

Microformats *might* happen.

The Internet will always be broken.

Because chaos causes the most innovation.

The Internet will always be lawless.

Because nations may be an obsolete concept, but they're not going away.

But Kurzweil is right

Massive traumatic change is just around the corner.

Free/libre/open production will continue to grow, challenging the marketplace.

P2P physical distribution may traumatize "Big Brick & Mortar" and "Big Web".

i.e.:
Aftermarkets
Group Buying

The BookMooch example:

One copy of a book is passed on, over and over, to everyone who wants it.

Many fewer copies of the book are sold.

this idea works with all media products
in the physical world

and with digital media

in a post-piracy world,
there is no consumer sales
business model

Another example:

Neighbors pool their ADSL connections so they can buy less bandwidth, at a lower cost, at a greater reliability.

Sssshhhh..

don't tell anyone, but
that's exactly what
"one laptop per child" is doing.

But that's ok, because only poor people
are going to get this technology, right?

This idea works with anything controlled by software.

Piracy is very compelling

With digital media,
B2B will be all that's left.

SONY PICTURES CLASSICS PRESENTS

CHOW YUN FAT   GONG LI

CURSE OF THE GOLDEN FLOWER

A FILM BY ZHANG YIMOU

ENTER SITE

BUY THE DVD

SONY PICTURES CLASSICS

VIEW TRAILER 1   VIEW TRAILER 2   VIEW TRAILER 3

Search

Download

XtorrentP2P.com

Search Results | ⊗ golden flower torre... G | ⊗ golden flower torre... Y?

All Audio (18) Video (33) Documents (19)   🔍 Filter

File		Size	Swarm ▼	
▶ 📁 Curse.Of.The.Golden.Flower[2006]DvDrip[Eng]-aXXo	3 files	701.0MB	★★★★★ 3654	DOWNLOAD
▶ 📁 Curse of the Golden Flower_DVDR_NTSC_pep0step	352 files	4.6GB	★★★★★ 180	DOWNLOAD
▶ 📁 Curse of the Golden Flower (2006) NeDiVx DVDRiP KVCD BluX (TUS Release)	7 files	800.6MB	★★★★★ 178	DOWNLOAD
▶ 📁 Curse.Of.The.Golden.Flower.DVDRip.XviD-NeDiVx	102 files	1.4GB	★★★★★ 162	DOWNLOAD
▶ 📁 temptorrent	173 files	8.0GB	★★★★½ 111	DOWNLOAD
▶ 📁 Curse.Of.The.Golden.Flower.DVDRip.XviD-NeDiVx [www.torrentat.org]	4 files	1.4GB	★★★★ 99	DOWNLOAD
▶ 📁 Curse Of The Golden Flower(Eng-Dubbed)(A KARMADROME Release)	7 files	796.9MB	★★★★ 90	DOWNLOAD
▶ 📁 Curse Of The Golden Flower [DVDRIP][2CDS][Ingles+Subs][www bitestre...	4 files	1.4GB	★★★ 59	DOWNLOAD
▶ 📁 Curse of the Golden Flower.TS.PAL.DVDR	8 files	937.2MB	★★★ 59	DOWNLOAD
▶ 📁 Curse.Of.The.Golden.Flower.DVDRip.XviD	3 files	1.4GB	★★½ 50	DOWNLOAD
▶ 📁 Curse Of The Golden Flower		693.0MB	★★½ 47	DOWNLOAD
▶ 📁 NERadio Nonstop – The Best of Techno and Trance – www.neradio.fm –	1377 files	5.5GB	★★½ 43	DOWNLOAD
▶ 📁 Curse Of The Golden Flower[MuLTiSuBs]Greek.Eng[2006]DVDRIP[FxM]	3 files	1.4GB	★★½ 36	DOWNLOAD
▶ 📁 curse of the Golden Flower dvd rip eng	42 files	4.4GB	★★½ 29	DOWNLOAD
▶ 📁 Curse.of.the.Golden.Flower.DVDSCR.XViD-GoldenFlower	51 files	698.3MB	★★½ 26	DOWNLOAD
📄 Curse.Of.The.Golden.Flower.2006.FRENCH.DVDSCR.XviD-CiNEFOX.avi		693.0MB	★★ 21	DOWNLOAD
▶ 📁 TTC – From Yao to Mao – 5000 Years of Chinese History	37 files	501.0MB	★★ 21	DOWNLOAD
▶ 📁 Curse Of The Golden Flower [DVDRIP][V.O. Sub. Spanish][www.newpct.com]	8 files	1.4GB	★★ 17	DOWNLOAD
▶ 📁 Curse of the golden flower	3 files	1.1GB	★½ 15	DOWNLOAD
▶ 📁 Curse of the Golden Flower	4 files	699.7MB	★½ 14	DOWNLOAD
▶ 📁 [NyaaTorrents] Curse Of The Golden Flower (mp3) [OST]	27 files	60.0MB	★½ 13	DOWNLOAD
▶ 📁 Curse Of The Golden Flower Eng subs	2 files	1.1GB	★½ 13	DOWNLOAD
▶ 📁 Curse Of The Golden Flower	25 files	58.8MB	★½ 12	DOWNLOAD
▶ 📁 Curse.Of.The.Golden.Flower.2006.R1.NTSC.DVDR-DPiMP	98 files	4.4GB	★½ 10	DOWNLOAD
📄 Curse.Of.The.Golden.Flower[2006]DvDrip[Eng]-aXXo.mp4		732.6MB	★½ 9	DOWNLOAD
▶ 📁 cd01	164 files	593.5MB	★½ 9	DOWNLOAD
▶ 📁 La.Cite.Interdite.FRENCH.DVDSCR.XviD-SAMS	2 files	701.9MB	★½ 8	DOWNLOAD
▶ 📁 U-spaces – Psychedelic Archaeology vol. 01-10	362 files	1.1GB	★½ 8	DOWNLOAD
▶ 📁 02.09.07.Curse.Of.The.Golden.Flower.DVDRip.XviD-NeDiVx	7 files	1.4GB	★½ 6	DOWNLOAD
▶ 📁 02.09.07.Curse.Of.The.Golden.Flower.DVDRip.XviD-NeDiVx	5 files	1.4GB	★ 5	DOWNLOAD
▶ 📁 Curse.Of.The.Golden.Flower.2006.R1.NTSC.DVDR-DPiMP	98 files	4.4GB	★ 5	DOWNLOAD

DOWNLOAD

16 minutes
remaining

Unless law enforcement
and the criminal justice system
becomes 100%
automated.

Government + collective rights agencies might do just that.

They're trying hard to do it already.

Free & Libre & Open Cultural Production

will continue to grow logarithmically

Ironically, Free & Libre Cultural Production
is a middle-road between piracy and permission society.

Because it recognizes rights and permissions,
while providing many of the freedoms that piracy delivers.

What will likely happen:

1) permission society will expand

2) piracy (i.e. "infringing use") will grow at the same time

3) the "Free & Libre" sphere will also be growing

These trends are all colliding.

What will likely happen:

- which of these 3 wins will depend on government

- "Free & Libre & Open" presents the best current path and may force government's hand

John Buckman <John@magnatune.com>

CEO & Founder, Magnatune & BookMooch
Creative Commons board member.