MOBILE COMPUTING

HISTORY & EVOLUTION

HISTORY

- "0G" SERVICES - IMPROVED MOBILE TELEPHONE SERVICE,
- FIRST GENERATION (1G) - ANALOG CELLULAR NETWORK [1979]
- SECOND GENERATION (2G) - DIGITAL CELLULAR NETWORKS [1990's]
- THIRD GENERATION (3G) - BROADBAND DATA SERVICES [2001]
- FOURTH GENERATION (4G) - NATIVE-IP NETWORKS [2009]

FIRST MOBILE

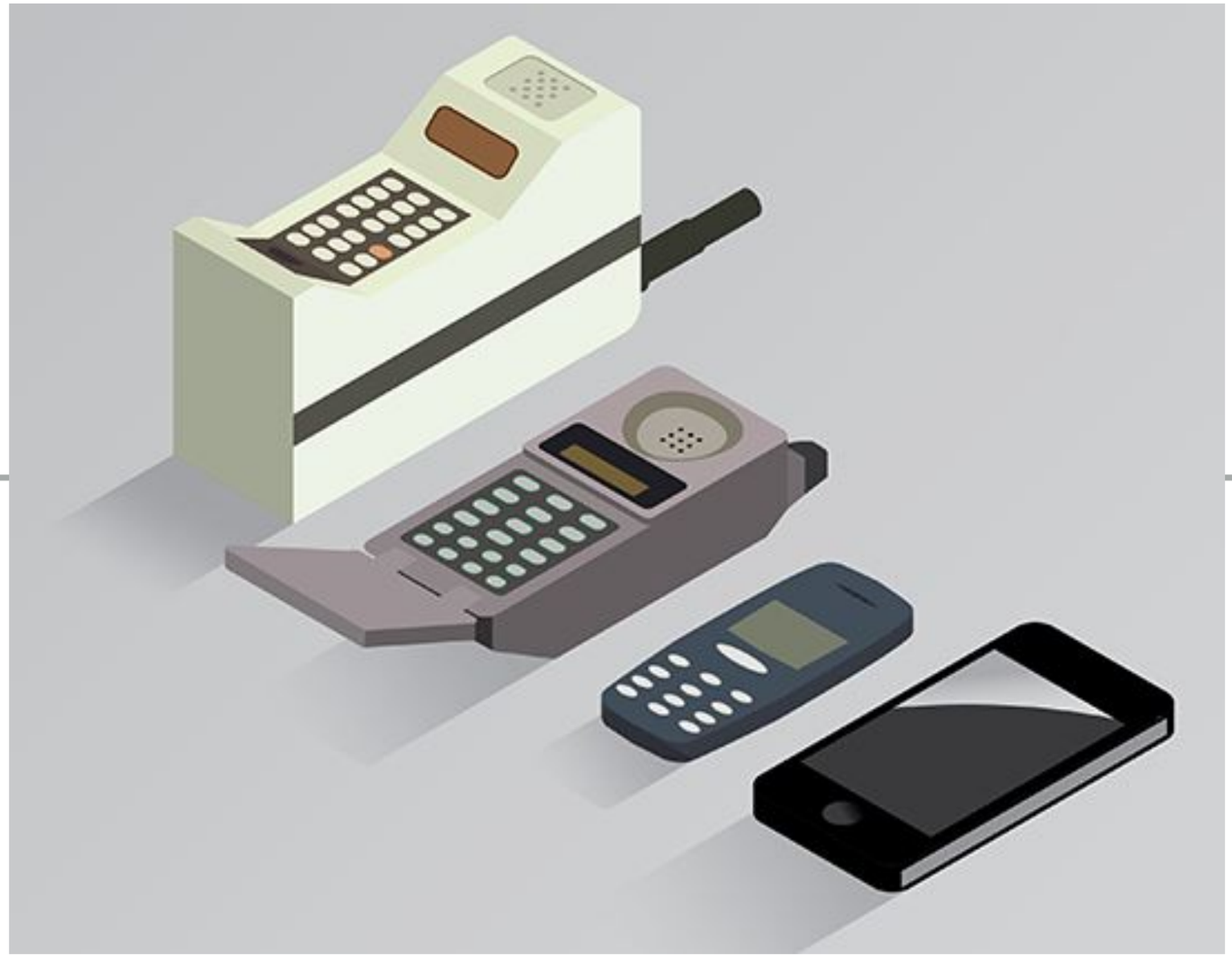
- 3 APRIL 1973 , MARTIN COOPER (MOTOROLA)
- WEIGHED 1.1 KG
- DIMENSION 13x23x4.45 CM
- TALK TIME 30 MINUTES & NEEDS 10 HOURS TO RECHARGE

Martin Cooper with the first mobile phone

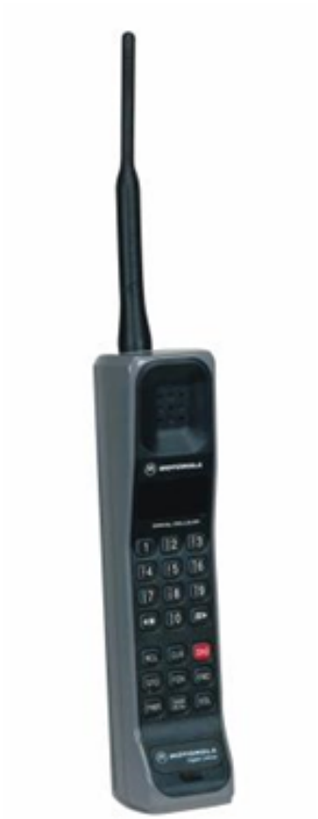
FIRST MOBILE OF MOTOROLA

- THE FIRST CELL PHONE RELEASED BY MOTOROLA WAS THE DYNATEC
- CONSIDERED AS 1G
- NICKNAMED AS BRICK
- 4,000 USD IN PRICE

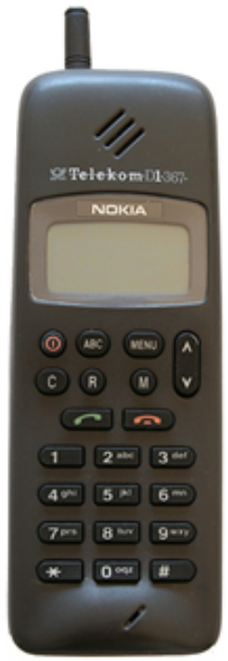
MOBILE EVOLUTION



MOBILE EVOLUTION

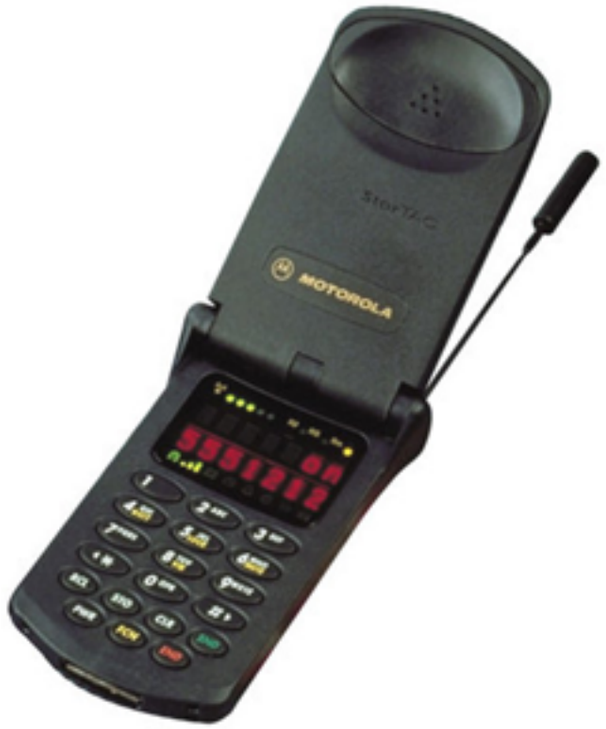


1992, MOTOROLA INTERNATIONAL 3200



NOKIA 1011, FIRST MASS-PRODUCED GSM PHONE

MOBILE EVOLUTION

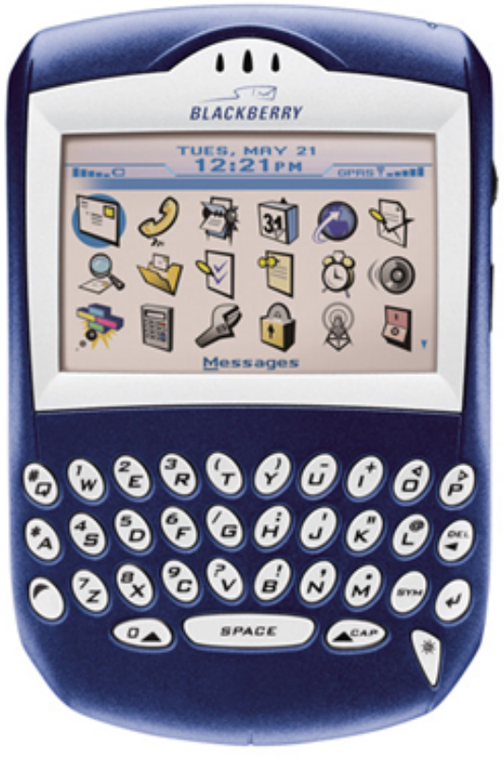


MOTOROLA STARTAC, FIRST FLIP PHONE

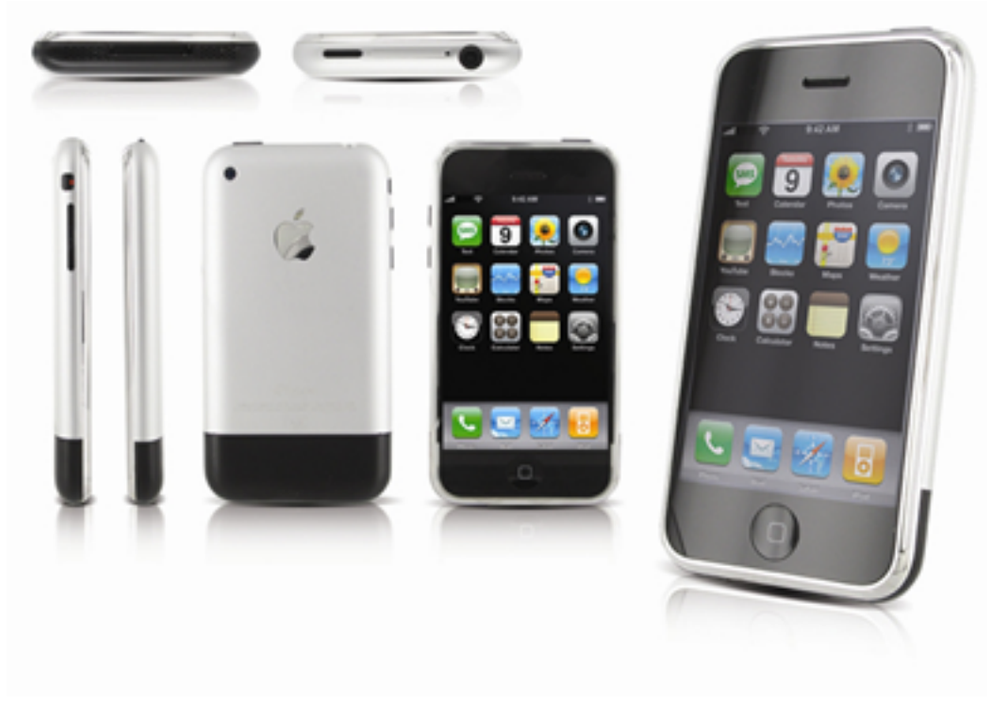
NOKIA 9000 COMMUNICATOR,

FIRST SMARTPHONE (I386)

MOBILE EVOLUTION



BLACKBERRY 7210, FIRST COLOR SCREEN



2007 , IPHONE

TOP-SELLING MOBILE PHONES

Mobile	Released on	(Sold) Million Units
Nokia 1100	2003	250
Nokia 1110	2005	250
Nokia 3210	1999	160
Nokia 1200	2007	150

TOP-SELLING SMART PHONES

Mobile	Released on	(Sold) Million Units
iPhone 6 and 6 plus	2014	100
Samsung Galaxy S4	2013	80
iPhone 5	2012	70
iPhone 4S	2011	60

WIRED vs WIRELESS

- HIGH BANDWIDTH
- LOW BANDWIDTH VARIABILITY
- CAN LISTEN ON WIRE
- HIGH POWER MACHINES
- HIGH RESOURCE MACHINES
- NEED PHYSICAL ACCESS(SECURITY)
- LOW DELAY

- LOW BANDWIDTH
- HIGH BANDWIDTH VARIABILITY
- HIDDEN TERMINAL PROBLEM
- LOW POWER MACHINES
- LOW RESOURCE MACHINES
- NEED PROXIMITY
- HIGHER DELAY

Thank you