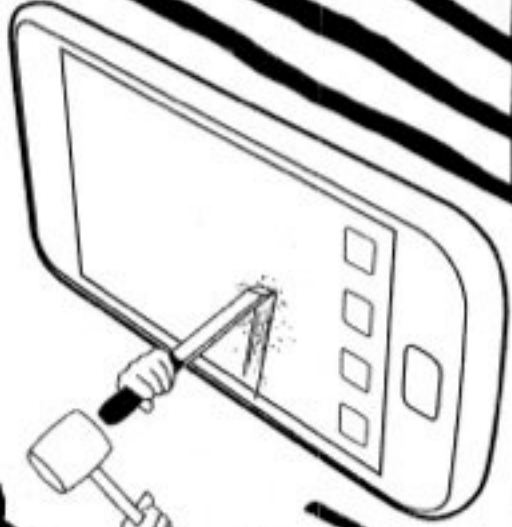




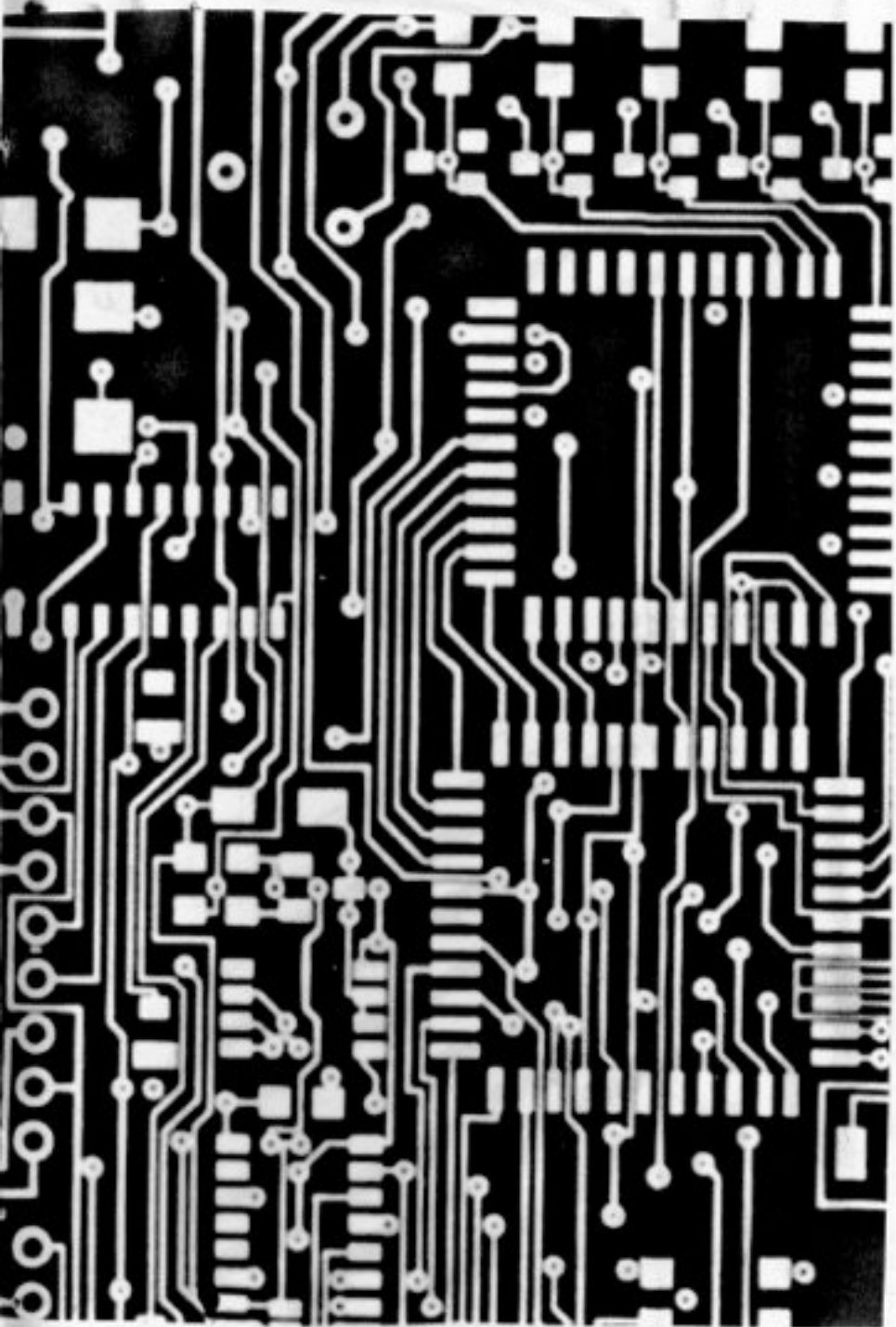
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Take It Apart(Y)!



(learn things about your things)



what are they? what do they do?

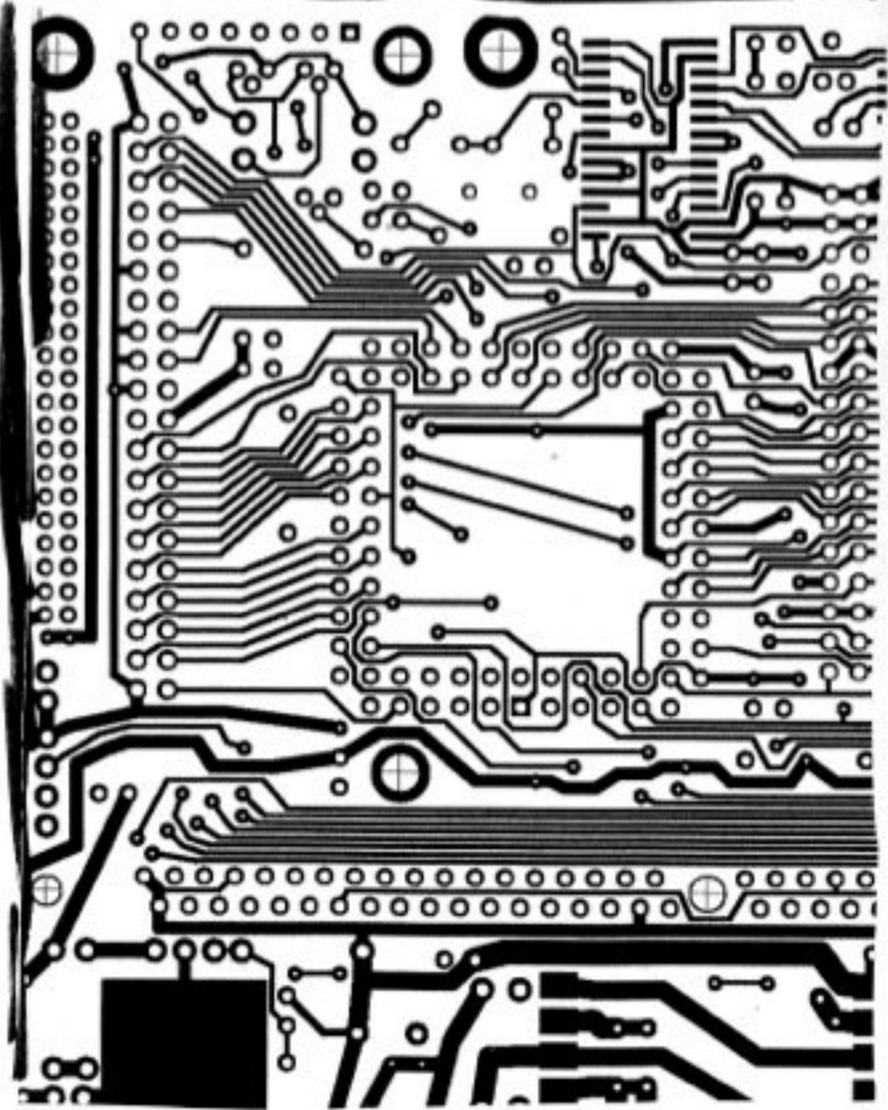
your turn!
draw some things you found...

a
voluntary
de-convenience
from



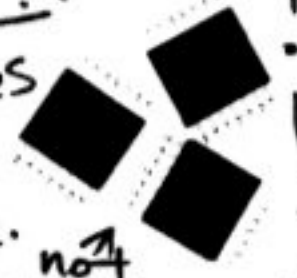
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the first step to
fixing things
is opening them up



Screens
LCD - liquid
crystal displays
or LED
displays
⇒

I.C.s (integrated circuits) aka
microchips
can be anything from
GPS modules & gyroscopes
to central processing
units for the
whole device.

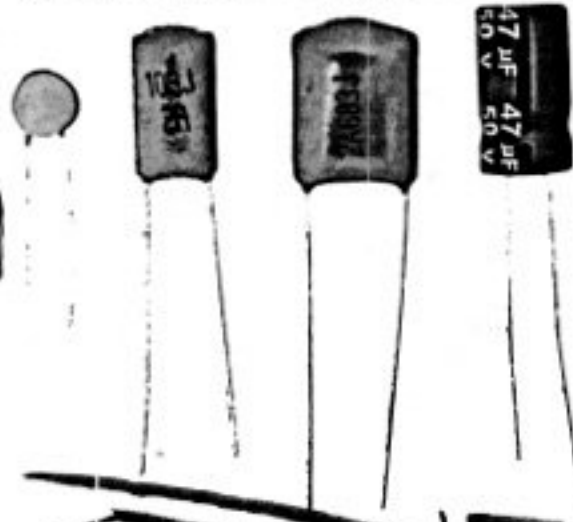


camera modules:
lens & CCD chip
combined - all
digital cameras
have some form of
CCD (charge-coupled
device) sensor


some things
you often see

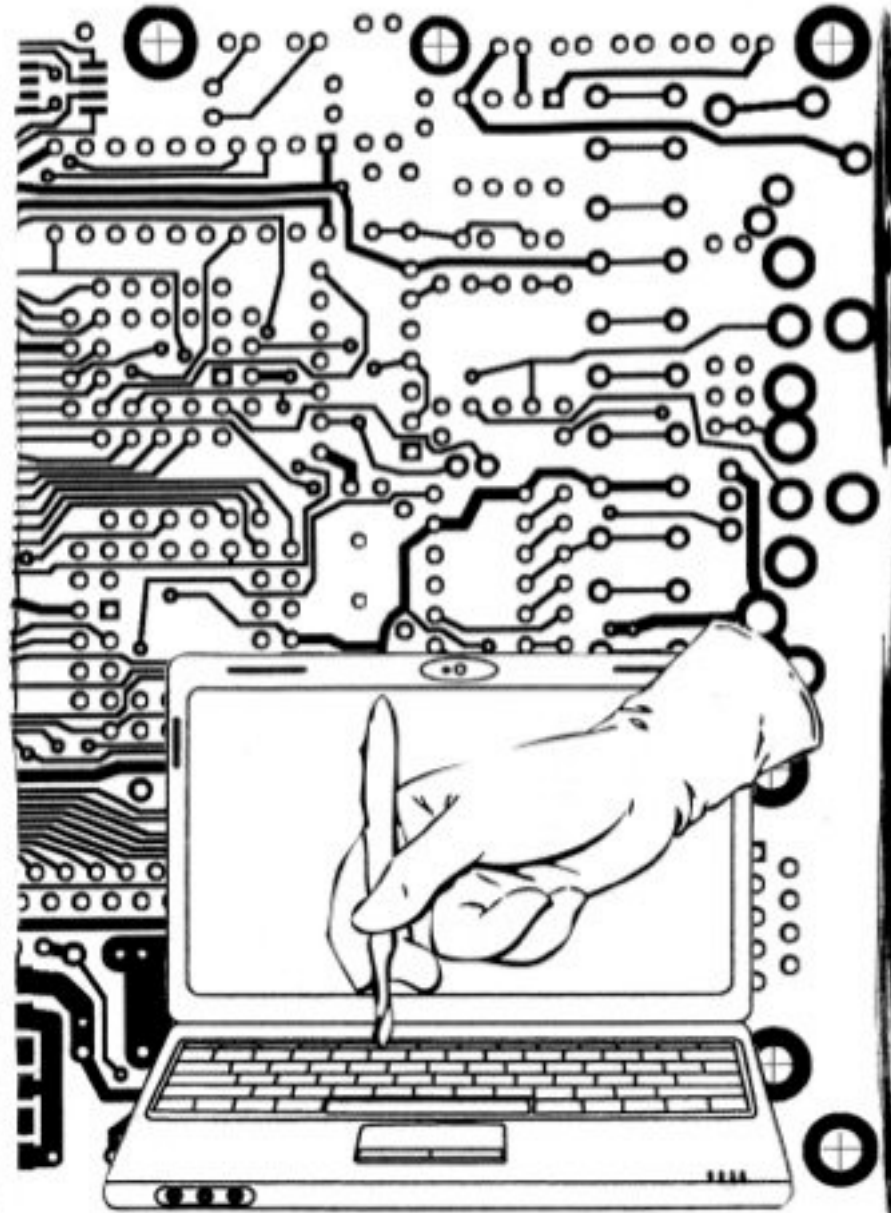
in digital devices

capacitors
for power control & limiting.



cables & connectors
so things can talk

L.E.D.s
(light-emitting diodes)
indicators, displays,
flash & flashlight,
so many forms that
they are hard to keep
track of 



so take something,
anything, apart

some things
you often see

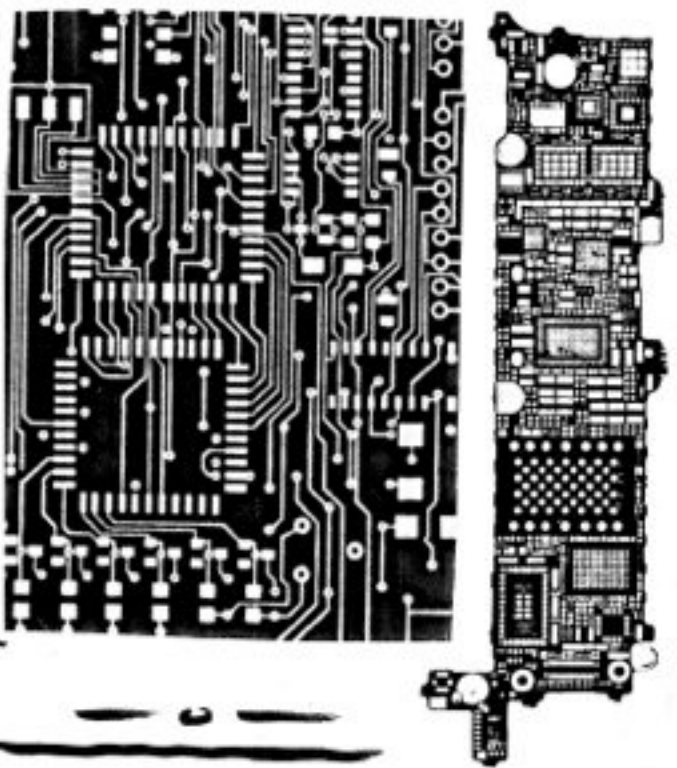


Motors:

for haptic
feed back
alerts, etc...
sometimes
appear as
fans! others
are very flat.



P.C.B. = Printed Circuit
Boards
the backbone, providing
power & data bet ween
components & structure for all.



Batteries
& other power
sources

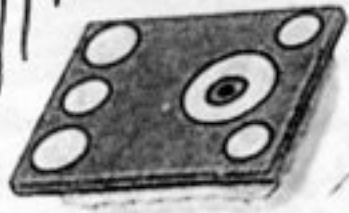
there will often
be more than the
big main one.

(things often have backup)



Microphones
& Speakers...

they come in
many sizes & forms
some as small as rice
grains.



in digital devices