Standard + Augmented leads.

Right Arm ⊖ ground

LI

Left Arm ⊕ Ground ⊖

aVR

aVL

II

III

AVF

⊕

⊕ Left foot
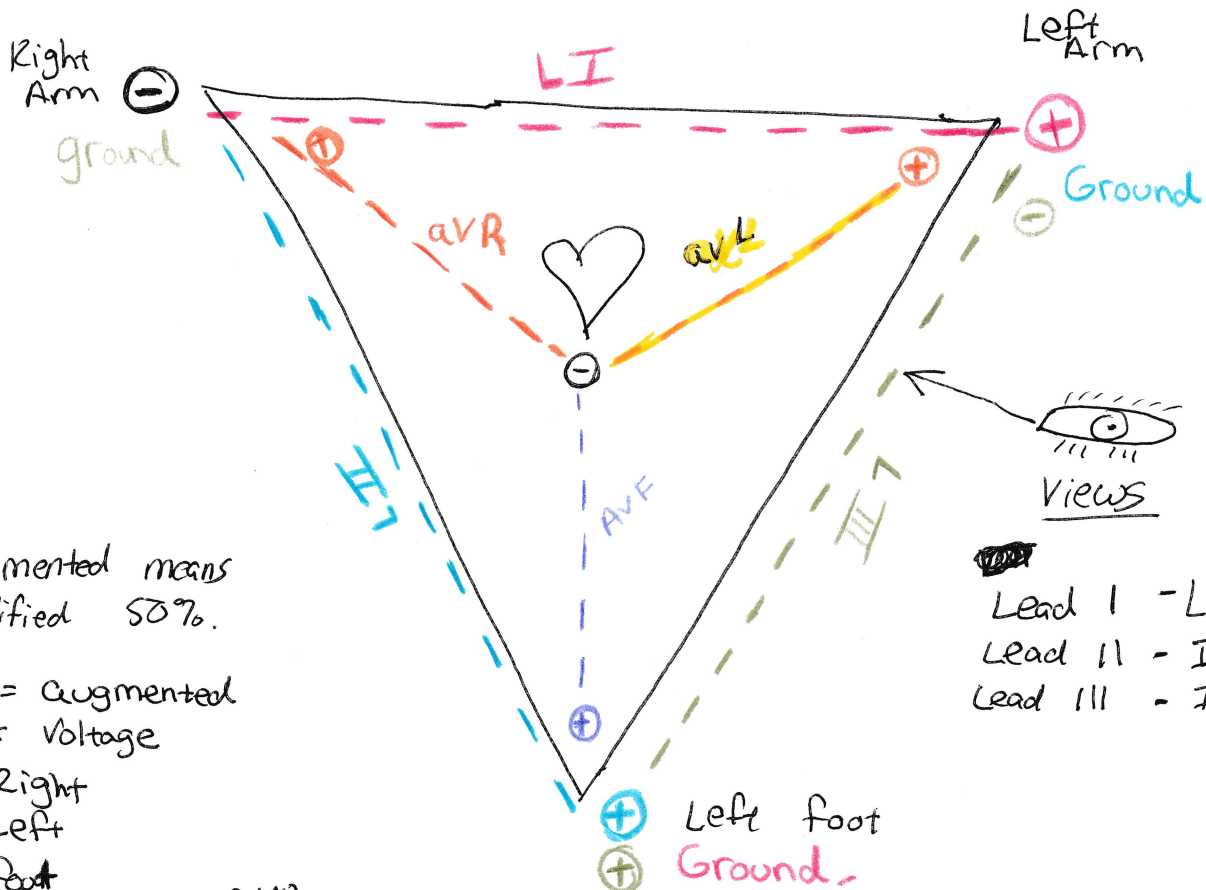⊕ Ground.

Augmented means
Amplified 50%.

a = Augmented
V = Voltage
R = Right
L = Left
F = foot

Views
Lead I - Lateral
Lead II - Inferior
Lead III - Inferior

aVR =
Right Shoulder view
mainly Base, atria, vessles
QRS = normally negitive.

aVL =
Left Shoulder view
Lateral view of Left ventricle.
QRS = neiter ⊕ or ⊖

aVF =
Regular view is Left ventrible
Inferialy from Left leg.
QRS = positive.

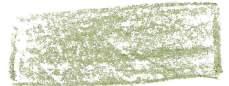"EInthoven Triangle"

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"Circle of Orientation"

Legend:
- Right Axis Deviation (orange)
- Left Axis Deviation (blue)
- Normal Axis (green)

(L) Foot

+90 aVF

L II +60

L III +120

+30

+150

-+180°

L I 0

-30 aVL

-60

aVR -150
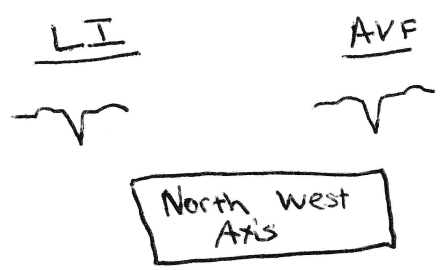
-120

North West Deviation

Cardiac Axis Simple -90

(L) arm

(R) arm
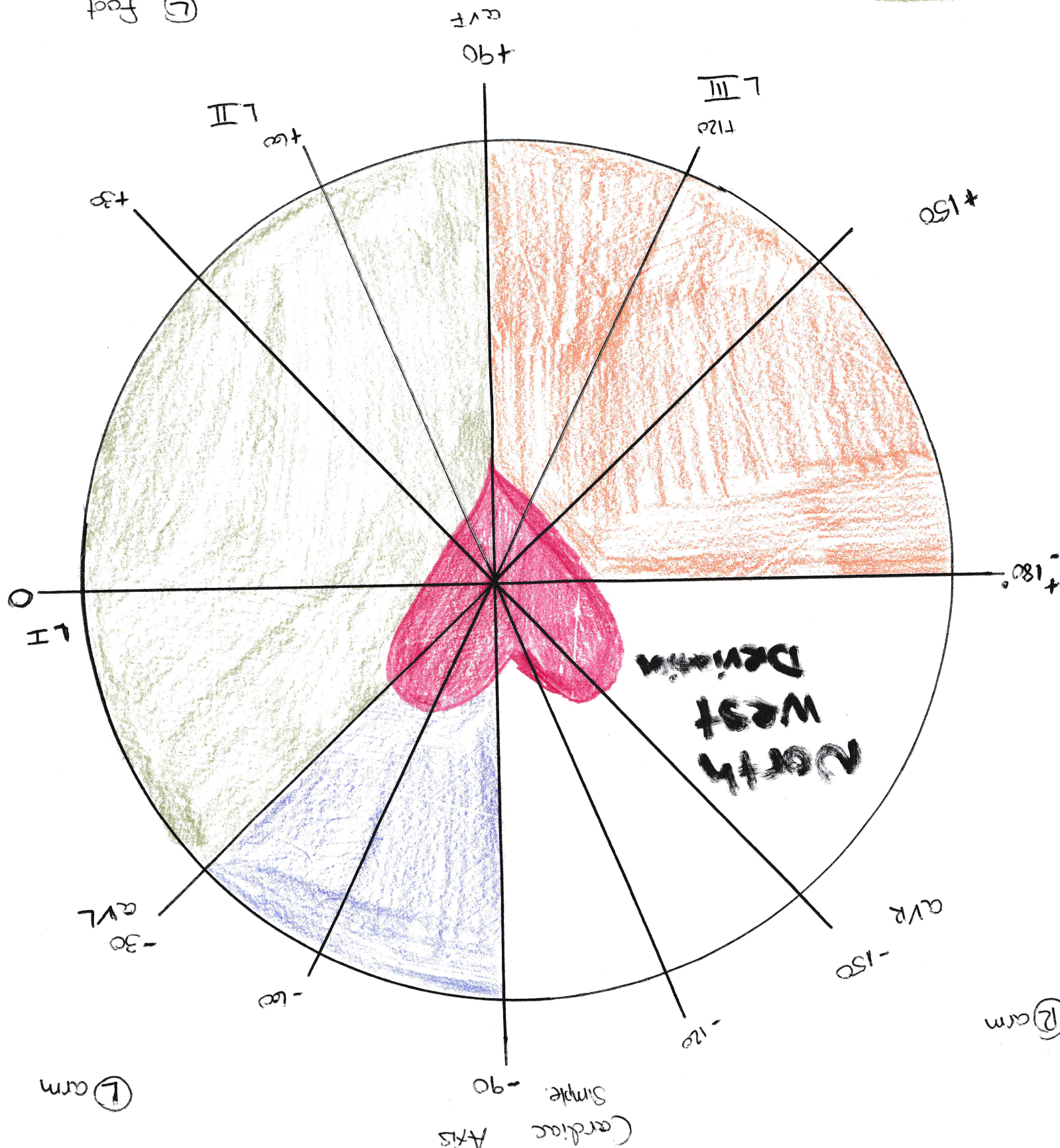
Put it together

A Depolorized wave toward a ⊕ electrode will Be ⊕ on EKG;

⊖ electrode will Be ⊖ on EKG.

Normal

L I = Positive Deflection
L II = Positive Deflection.
L III = Positive Deflection
avR = negitive Deflection
avL = negitive Deflection.
avF = Positive Deflection

"If"
Vectors tell us our Deviations!

LI   LII

Normal Axis

LI   LII

Left Axis

LI

 = Look at avF

avF

Right Axis

LI   AVF

North West Axis
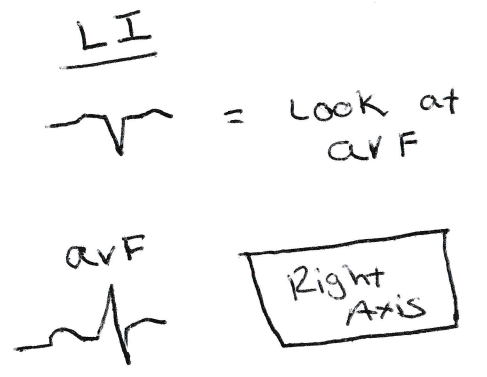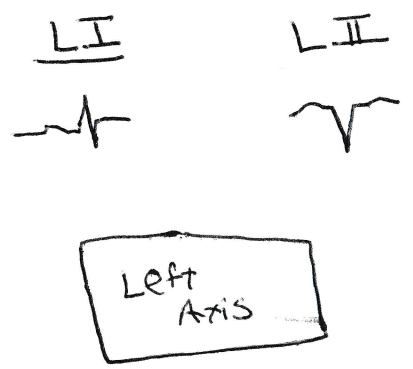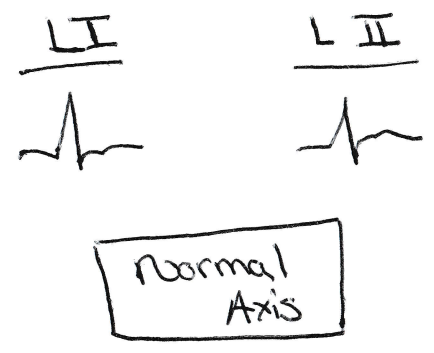
* Deviations can help us to Determin Blocks of the Bundle of His Bundle Branchs or the Perkinji fibers.

Justin 2017