

FOLLOWING YOUR HEART

Electrocardiography (ECG) is a measure of your heart. Not what it wants, but what it does - by recording and collecting data about the heart's activity we can understand more about both human physiology and emotional arousal.

THE HEART



two hands held together



300g in weight



-115,000 times a day



organ, that keeps our blood oxygenated and our bodies, well, alive. It pumps blood around our lungs and to the rest of our body. Our heart is intimately tied to how we feel it influences, and is influenced by, our level

The heart is a complex but well-studied

of physiological arousal.

Parasympathetic nervous system

systems work to

regulate heart rate:

Sympathetic nervous system







The increased rate of changes to electrical currents around the heart are reflective of an

The heart's contractions are controlled by the

electrical activity of certain nerves.

HOW ECG WORKS

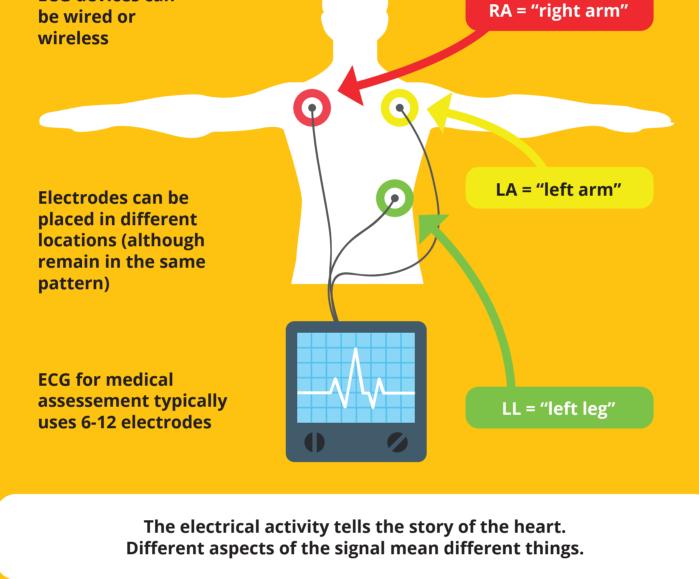
increased heart rate (and vice versa).



internal changes in electrical activity from the surface of the skin.

Much like other biometric measures, ECG uses electrodes to record

ECG devices can

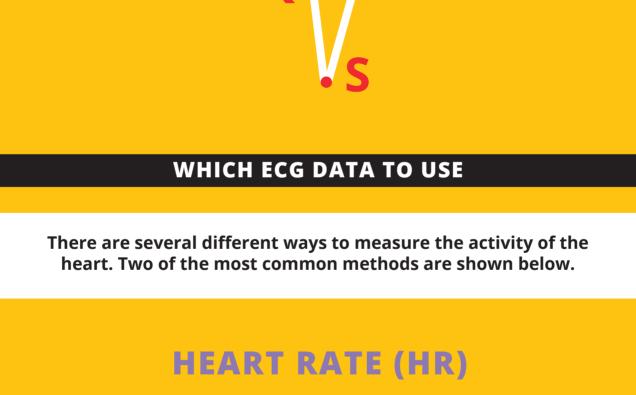


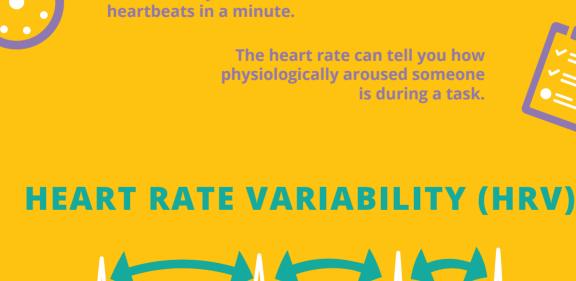
This is a typical ECG signal of a heartbeat. The "QRS" part of the signal shows when the heart ventricles pump the blood outwards.

WHAT ECG MEASURES



Depolarization of the atria Repolarization of the ventricles





Calculated by the number of



Decreases in HRV are related to increased physiological arousal.



GAMING



USABILITY



Don't move the

electrode locations



MEDIA TESTING





PSYCHOLOGI

Keep distractions Prepare the skin properly at a minimum

MEDICAL



