steps, sleep, stress & fitness

Quantified Self Europe | May 2014

- i. What did I do?
- ii. How did I do it?
- iii. What did I learn?







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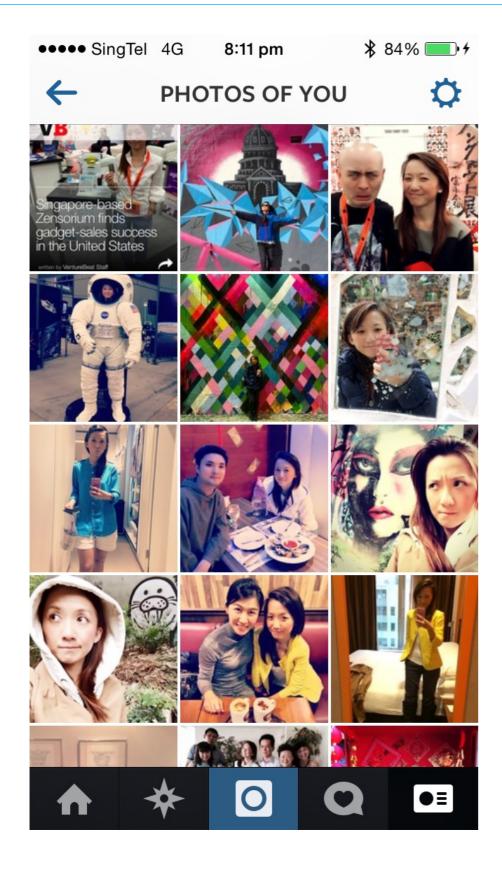
You Tube

in

#zensorium2012

youtube.com/zensorium2012

BACKGROUND / HELLO!



Computer Science in UK

• Interested in Data Analytics and

Human Factor Interaction

Intellectual Property at UK IBM

• Interested in Inventions

Business Development

 Interested in Multimedia and Creative Arts

DISCOVERY / FLASHBACK



•••

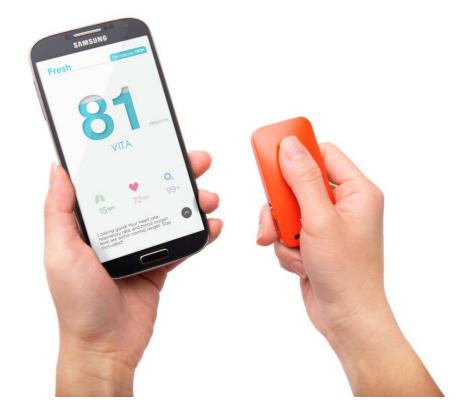
If you can find a better way to be happy than overeating, your body will naturally return to its balanced state.

30

Happiness is not a matter of intensity.

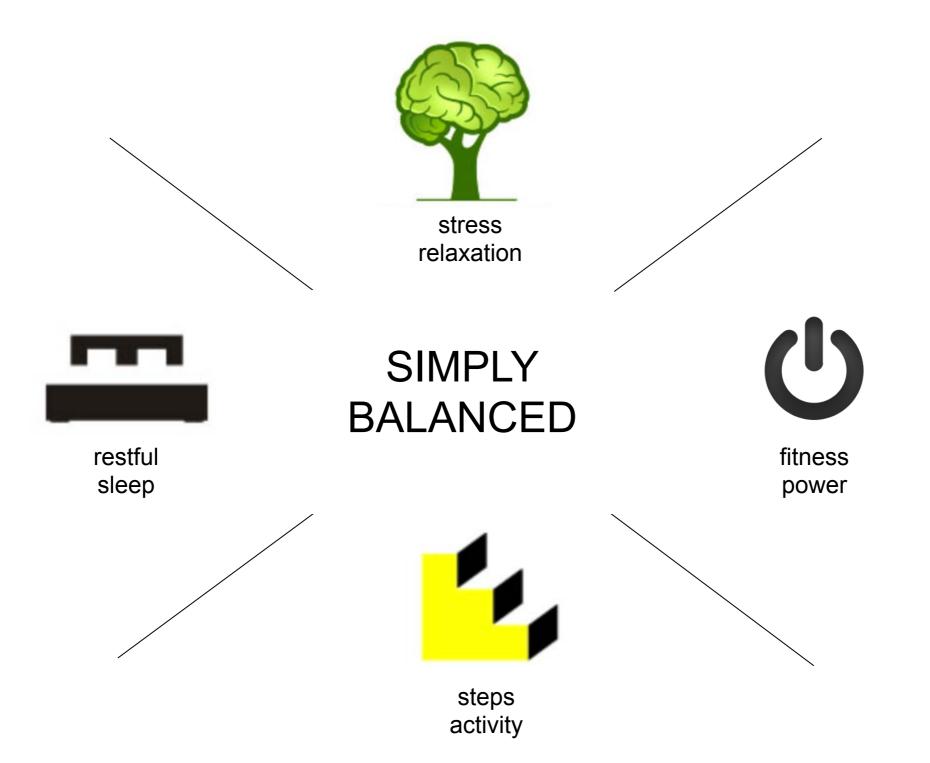
WHAT DID I USE? / 2 KEY DEVICES

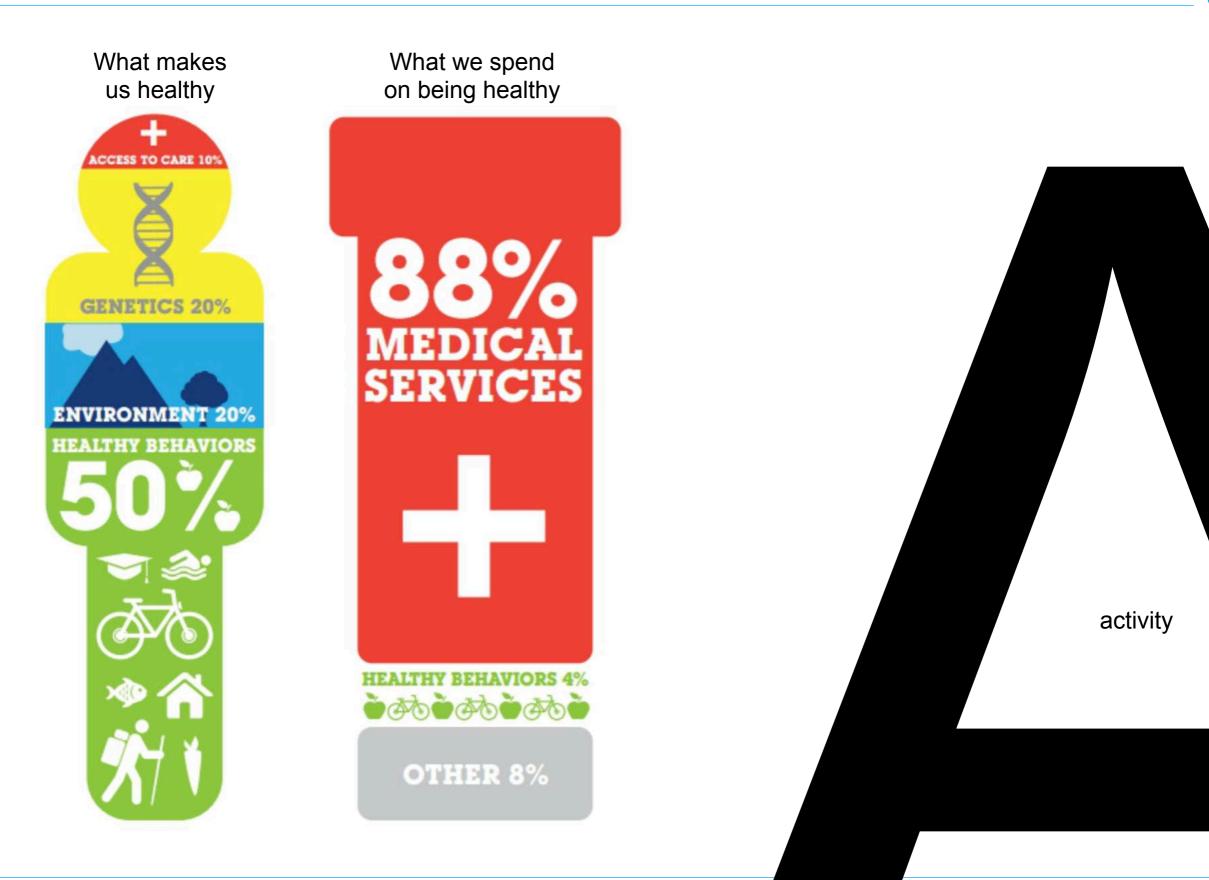


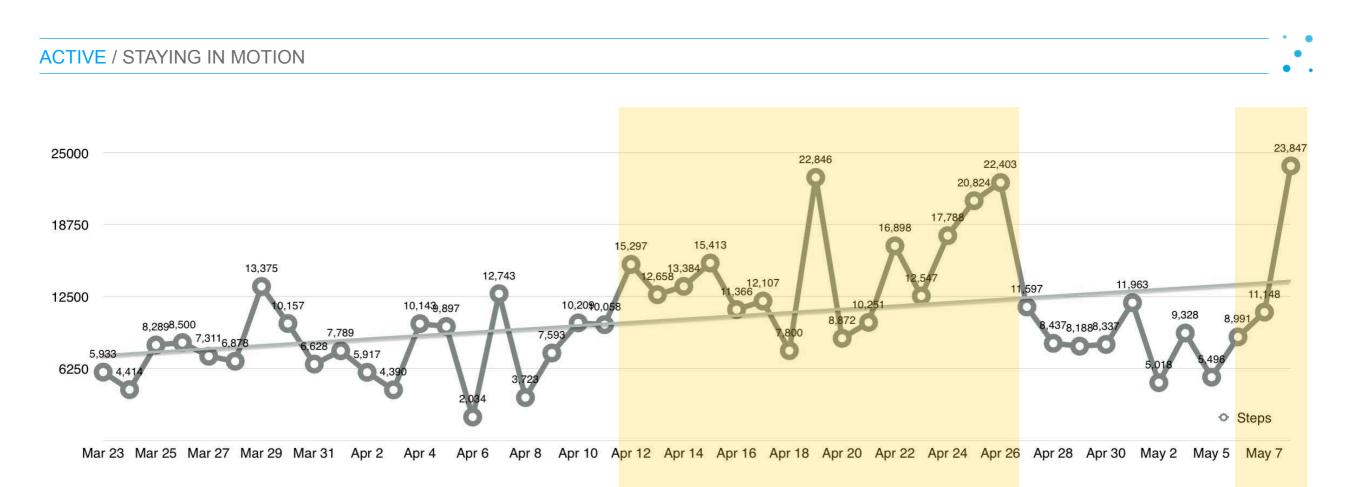






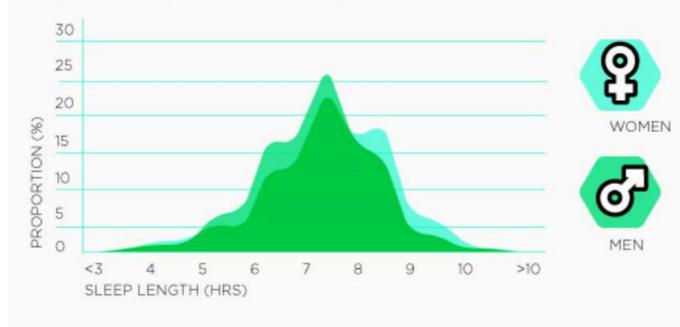






60% Of Adults Are Not Getting Enough Sleep

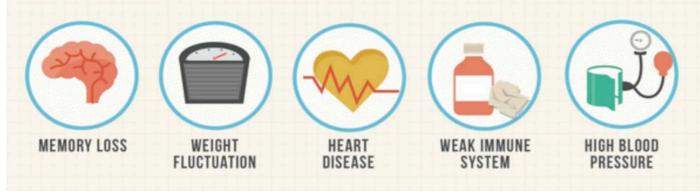
The average American spent 7.5 hours a night in bed, but 6.1 actually asleep



EFFECTS OF SLEEP DEPRIVATION

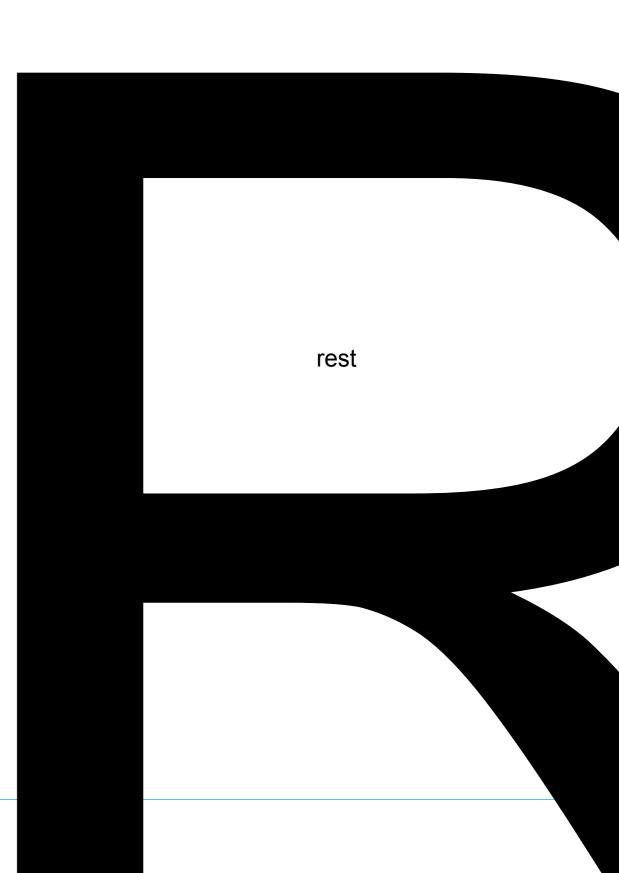
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A large portion of the population is clearly impacted by a lack of sleep. This lack of sleep can do more than hinder your day to day functioning; it can also impact your health.

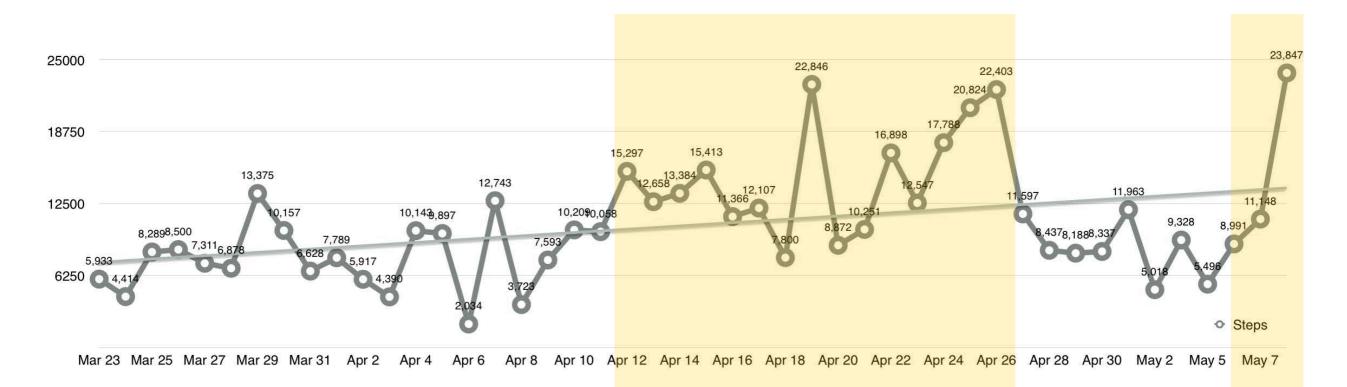


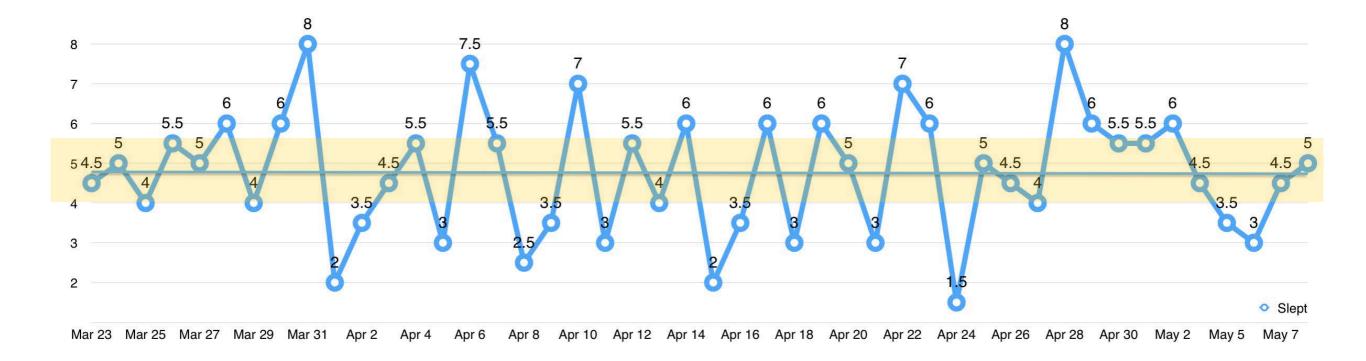
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ACTIVE & SLEEP / WHAT ARE THE TALES?





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HEART RATE

Did you know the lower your resting heart rate is, the fitter you are? Tinké lets you accurately measure your number of heart beats per minute, in seconds.

READ MORE

RESPIRATORY RATE

Did you know that your fitness is related to your respiratory rate? The lower your respiratory rate at rest, the fitter you are. Tinké lets you measure the number of breaths you take per minute.



BLOOD OXYGEN LEVEL

A blood oxygen level of above 95% is essential for optimum performance in your daily activities. Fitter people have higher blood oxygen saturation levels. Tinké lets you measure the amount of oxygen carried by the red blood cells in your blood, at any given time.

READ MORE



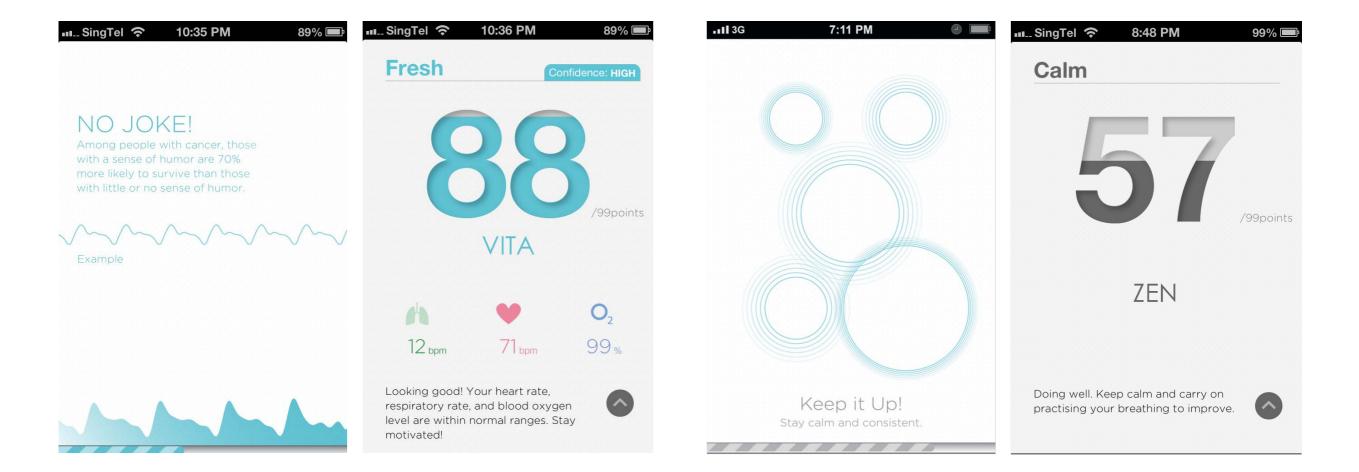
HEART RATE VARIABILITY

Our heart does not beat at a constant rate, and the changes in the rate at which our heart beats is known as Heart Rate Variability (HRV). Tinké measures for your HRV to give an indication of your level of relaxation.



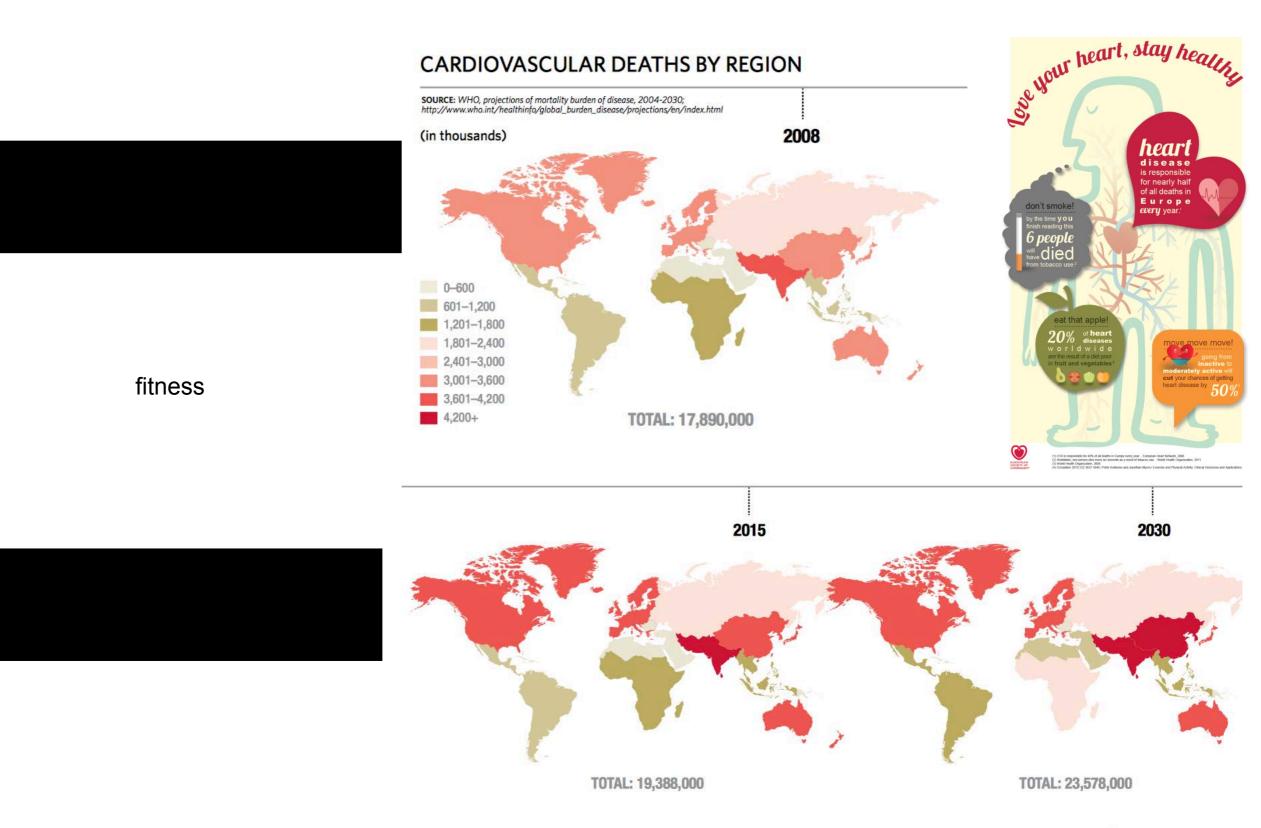
TINKÉ / UNIVERSAL INDEXES SIMPLIFICATIO



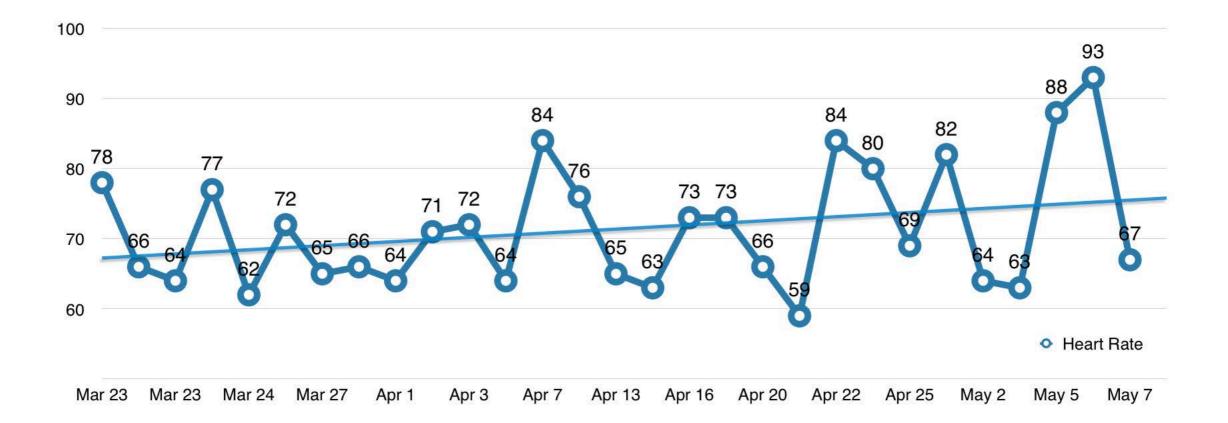


VITA for Fitness Measurement

ZEN for Stress Measurement

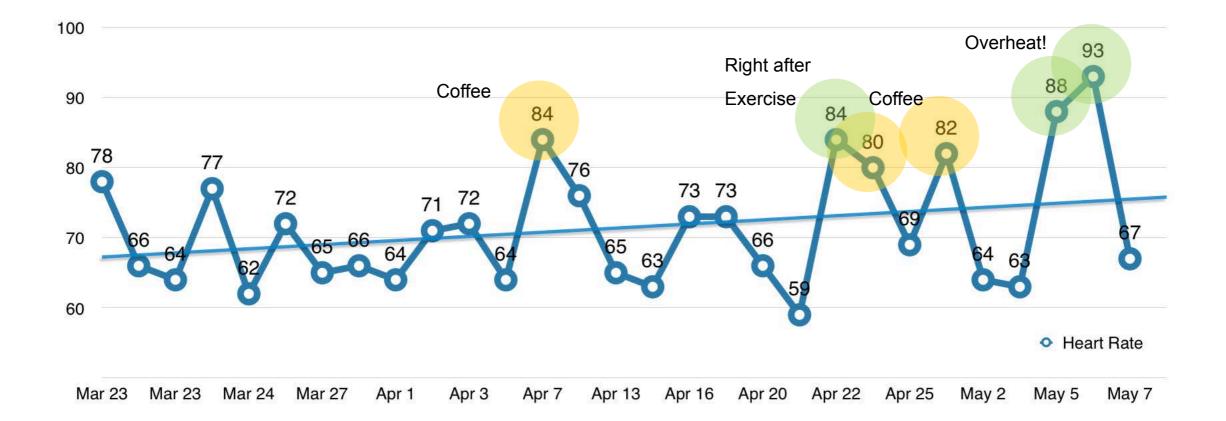


SCIENTIFIC AMERICAN Pathways www.sa-pathways.com / a custom collaboration with O QUINTILES



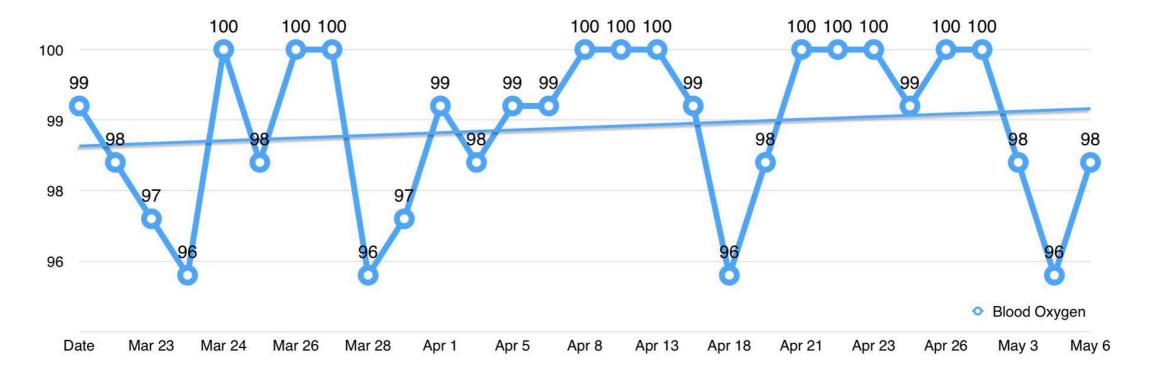
MENS RESTING HEART RATE CHART						
AGE	18 -25	26 -35	36 -45	46 - 55	56 -65	65+
ATHLETE	49-55	49-54	50-56	50-57	51-56	50-55
EXCEL'T	56-61	55-61	57-62	58-63	57-61	56-61
GOOD	62-65	62-65	63-66	64-67	62-67	62-65
ABOVE AV	66-69	66-70	67-70	68-71	68-71	66-69
AVERAGE	70-73	71-74	71-75	72-76	72-75	70-73
BELOW AV	74-81	75-81	76-82	77-83	76-81	74-79
POOR	82+	82+	83+	84+	82+	80+

WOMENS RESTING HEART RATE CHART						
AGE	18 -25	26 -35	36 -45	46 - 55	56 -65	65+
ATHLETE	54-60	54-59	54-59	54-60	54-59	54-59
EXCEL'T	61-65	60-64	60-64	61-65	60-64	60-64
GOOD	66-69	65-68	65-69	66-69	65-68	65-68
ABOVE AV	70-73	69-72	70-73	70-73	69-73	69-72
AVERAGE	74-78	73-76	74-78	74-77	74-77	73-76
BELOW AV	79-84	77-82	79-84	78-83	78-83	77-84
POOR	85+	83+	85+	84+	84+	84+



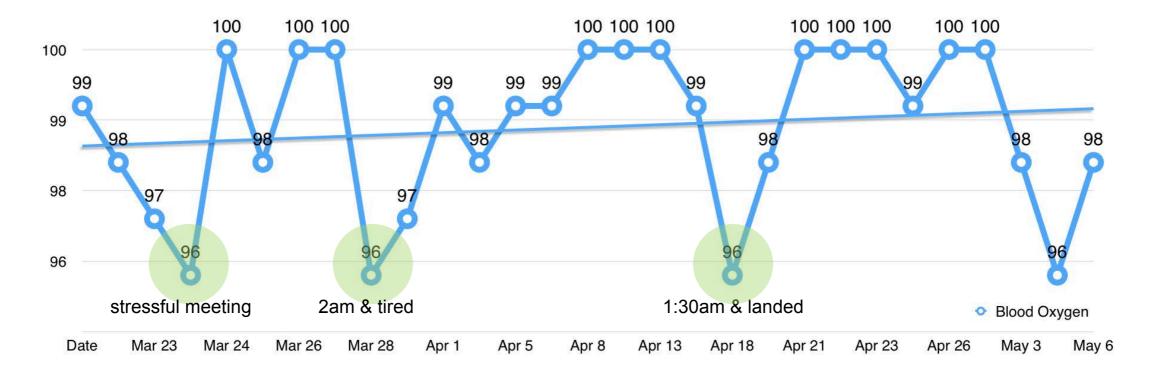
MENS RESTING HEART RATE CHART						
AGE	18 -25	26 -35	36 -45	46 - 55	56 -65	65+
ATHLETE	49-55	49-54	50-56	50-57	51-56	50-55
EXCEL'T	56-61	55-61	57-62	58-63	57-61	56-61
GOOD	62-65	62-65	63-66	64-67	62-67	62-65
ABOVE AV	66-69	66-70	67-70	68-71	68-71	66-69
AVERAGE	70-73	71-74	71-75	72-76	72-75	70-73
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ABOVE AV	70-73	69-72	70-73	70-73	69-73	69-72	
AVERAGE	74-78	73-76	74-78	74-77	74-77	73-76	
BELOW AV	79-84	77-82	79-84	78-83	78-83	77-84	
POOR	85+	83+	85+	84+	84+	84+	



When your lungs are healthy and working well, you **breathe in air and your body gets the oxygen it needs to keep everything working**. Your blood cells are able to pick up the oxygen and carry enough to handle your body's needs. This is your oxygen level.

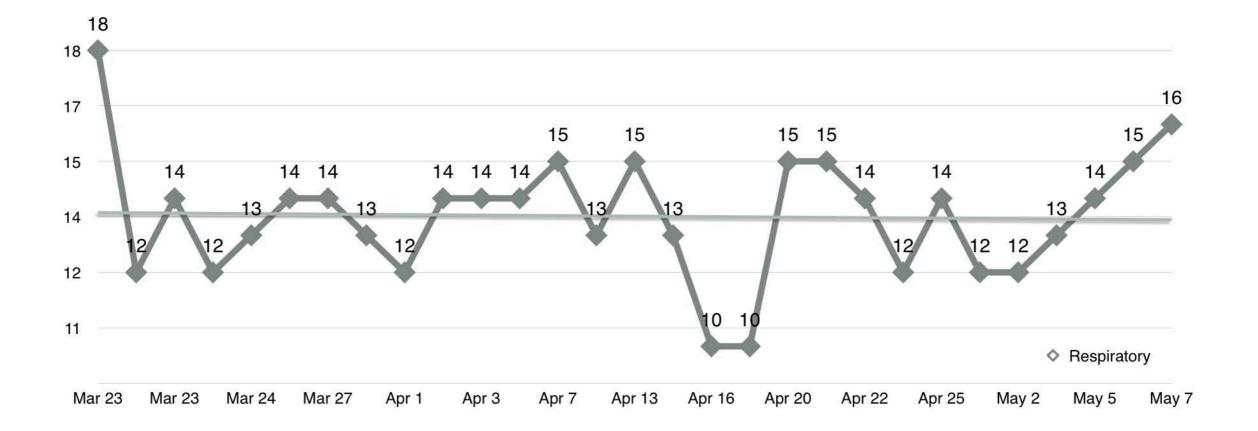


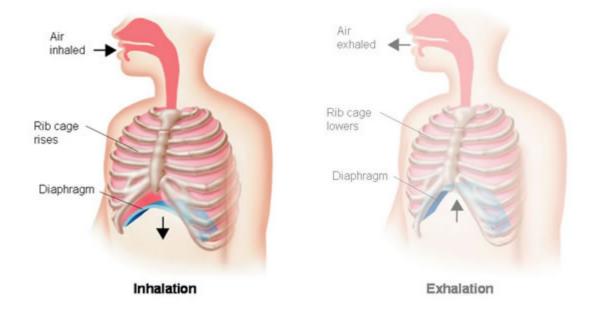


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Because all of your body's cells need oxygen to work and live, low oxygen can affect almost every part of your body. Low oxygen is very hard on cells of your heart and brain, and other body cells that are always working and not able to repair themselves.

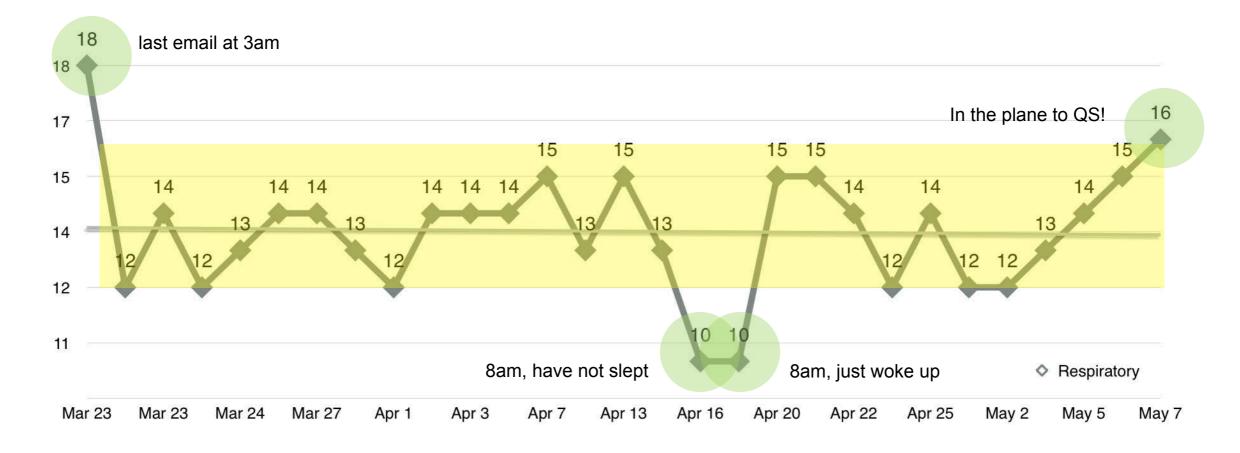


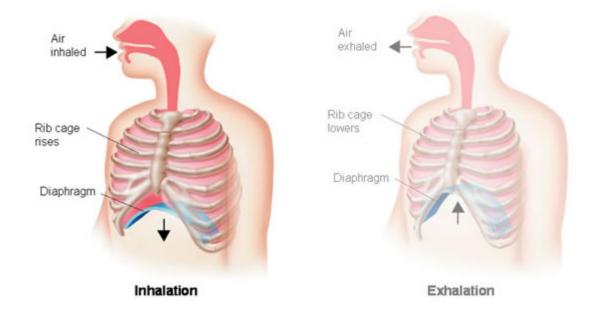




The respiration rate is the number of breaths a person takes per minute, usually measured when a person is at rest. **Respiration rates may increase with fever, illness, and with other medical conditions (lung, heart).** Normal respiration rates for an adult person at rest range from 12 to 16 breaths per minute.

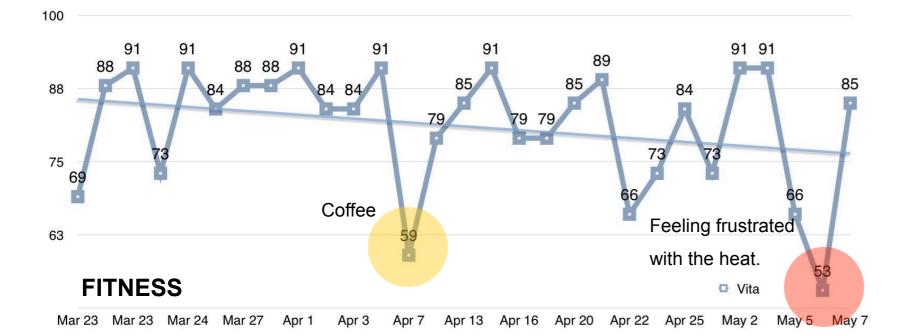
BREATHING / OBSERVING FOR RAPID SHALLOW BREATHING



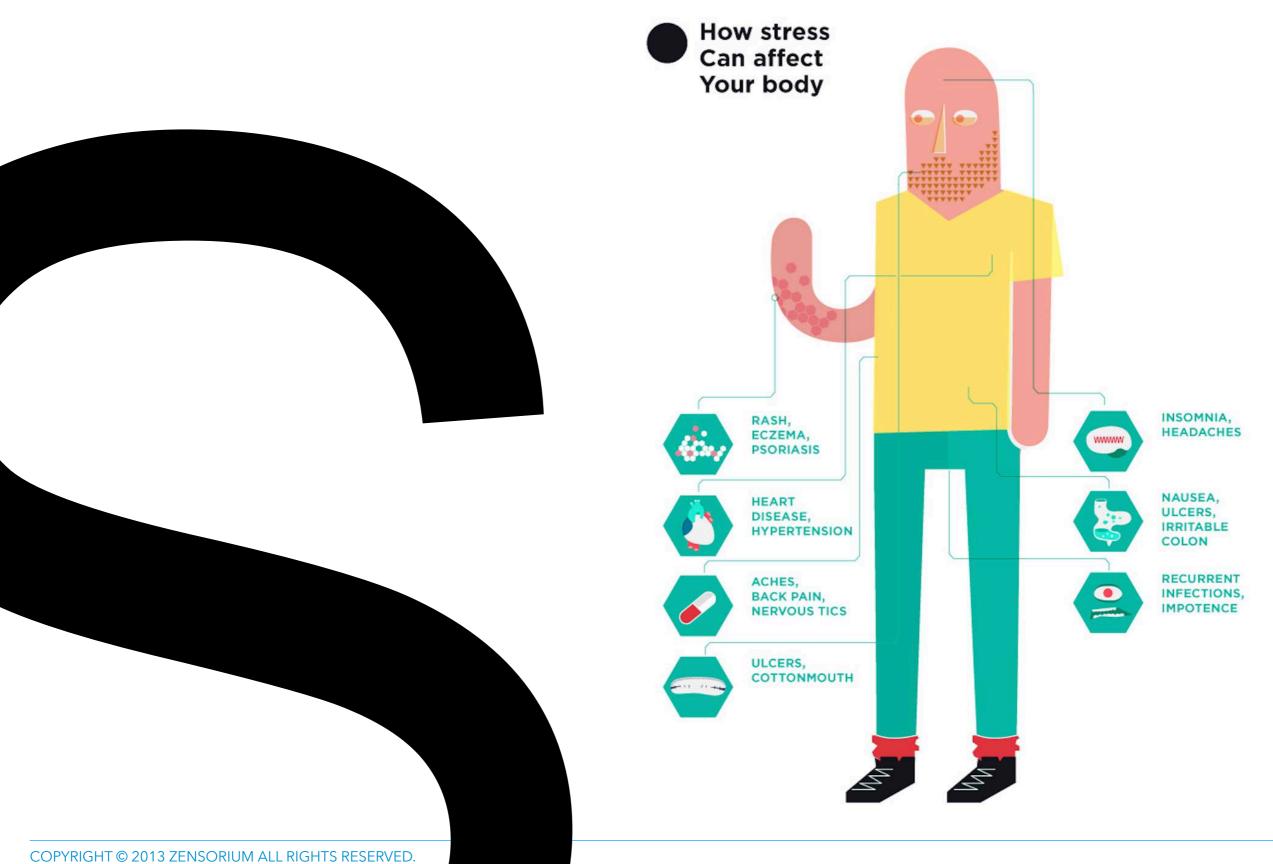


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FITNESS & STRESS / WHAT ARE THE TALES?



●●○○○ SingTel 4G 🖇 81% 💷 • 10:37 pm Monthly List Daily 23 Mar 2014 Wrote a work 🔥 💙 O2 2.46am thank you 69 email. Hyped... Did cycle 2 to calm myself 2.51am 86 down.. Lazing the 🖍 🖤 O2 88 12.18pm Sunday 12 66 98 morning in. Ju... After the ▲ ♥ O₂ 14 64 97 91 10.28pm beach, dinner and doing not... 24 Mar 2014 Just stepped into office after mtg disty. VITA n 💙 O, 1.54pm 73 Level-Up! 🔥 💜 O2 8.13pm Peace and 91 13 62 100 quietness in o... \mathbf{v} (\mathbf{Z}) ----ıllı



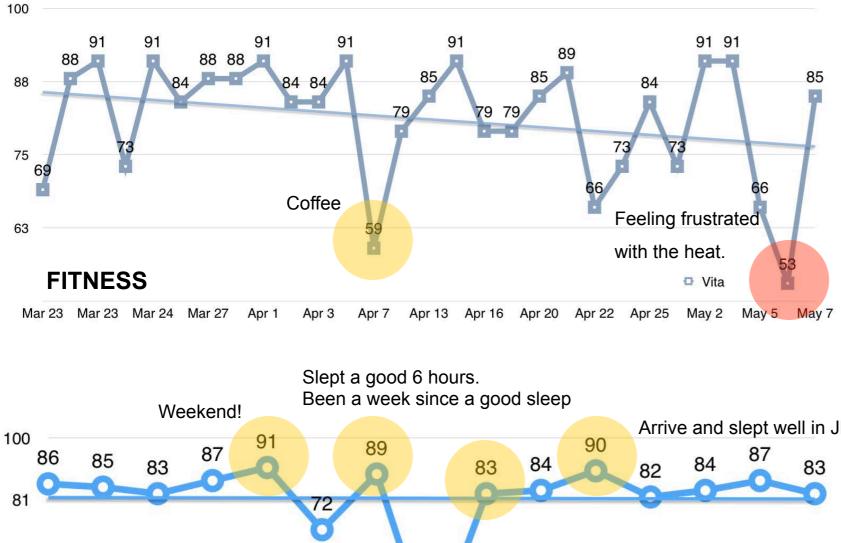
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List	Daily	Monthly
23 Mar 2014		
n ♥ O₂ 69	0.40	Wrote a work thank you email. Hyped
	2.51am	Did cycle 2 to calm myself down
	12.18pm	Lazing the Sunday morning in. Ju
	91 10.28pm	After the beach, dinner and doing not
24 Mar 2014		
♠ ♥ O ₂ 7 12 77 96 7	1.54pm	Just stepped into office after mtg disty.
	91 8.13pm	Level-Up! Peace and quietness in o
26 Juliana	ılı 🕐	Z 4

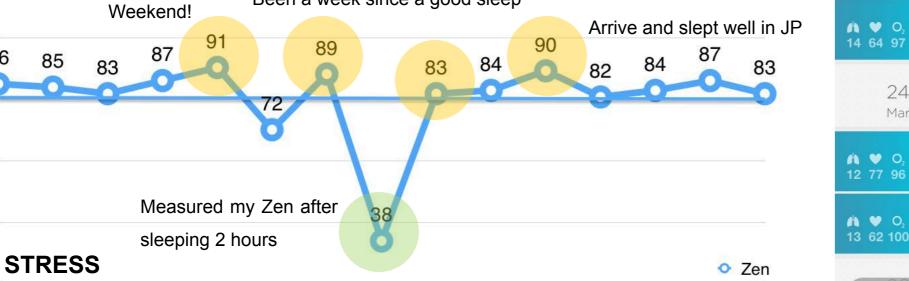


Mar 23 Mar 26 Mar 27 Apr 1 Apr 5 Apr 8 Apr 13 Apr 15 Apr 18 Apr 20 Apr 21 Apr 23 Apr 25 May 3 May 6

	••••• SingTel 4G	10:37 pm
	23 Mar 2014	
	▲ ♥ O₂ VITA 18 78 99 69	2.46am Wrote a work thank you email. Hyped
	zen 86	2.51am Did cycle 2 to calm myself down
Slept a good 6 hours.	▲ ♥ O ₂ VITA 12 66 98 88	12.18pm Lazing the Sunday morning in. Ju.
Weekend! Been a week since a good sleep Arrive and slept well in JP 86 85 83 87 91 89 83 84 90 80 84 87 83	♦ ♥ O₂ 14 64 97 VITA 91	10.28pm After the beach, dinner and doing not.
	24 Mar 2014	
3	↑ ♥ O ₂ VITA 12 77 96 73	1.54pm Just stepped into office after mtg disty.
Measured my Zen after 38		Level-Up!
4 sleeping 2 hours STRESS STRESS	13 62 100 91	8.13pm Peace and quietness in o
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FITNESS & STRESS / WHAT ARE THE TALES?



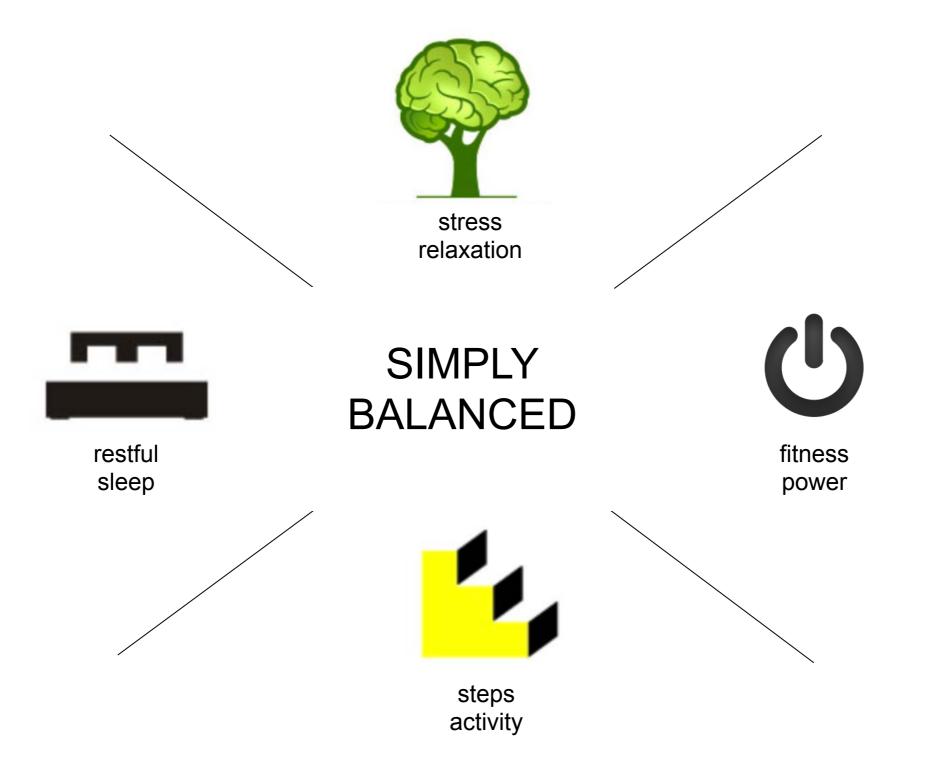


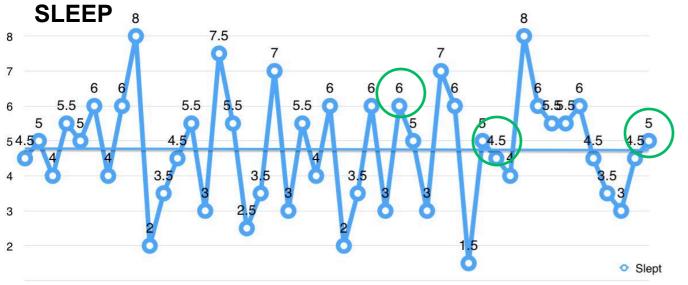
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	0:37 pm aily	∦ 81% 💷• Monthly
23 Mar 2014		
ta 78 99 02 09 09 09 00 00 00 00 00 00 00 00 00 00	2.46am	Wrote a work thank you email. Hyped
zen 86	2.51am	Did cycle 2 to calm myself down
Image: Market with the state of the sta	12.18pm	Lazing the Sunday morning in. Ju
M ♥ O₂ VITA 97 91	10.28pm	After the beach, dinner and doing not
24 Mar 2014		
A ♥ O₂ VITA 72 77 96	1.54pm	Just stepped into office after mtg disty.
M ♥ O₂ VITA 13 62 100	8.13pm	Level-Up! Peace and quietness in o
26 Juliana	V	Z 4

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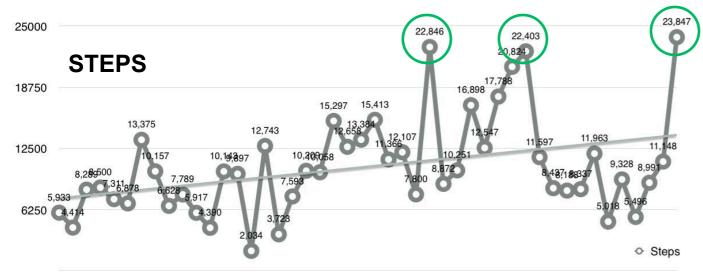
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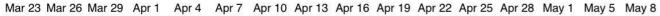


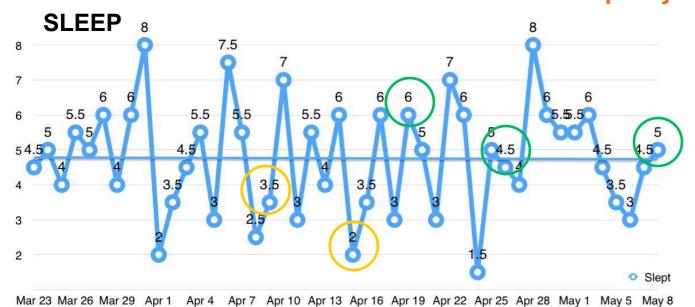


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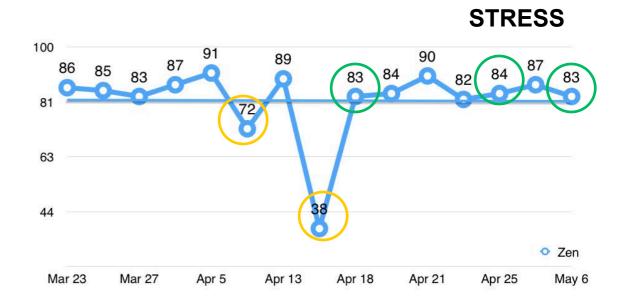
More Steps (Green) X= Better Sleep (Green)?



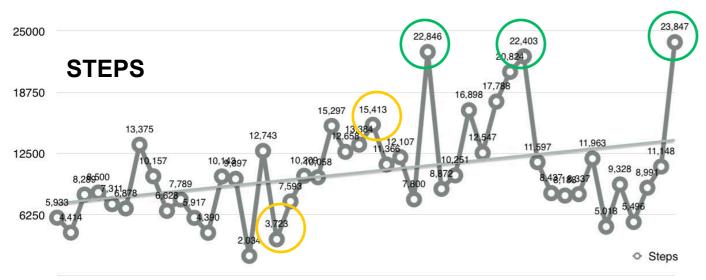




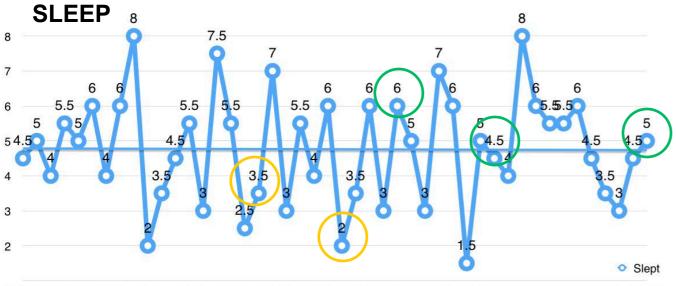
Sleep may affect Stress (Orange)



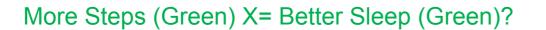
More Steps (Green) X= Better Sleep (Green)?

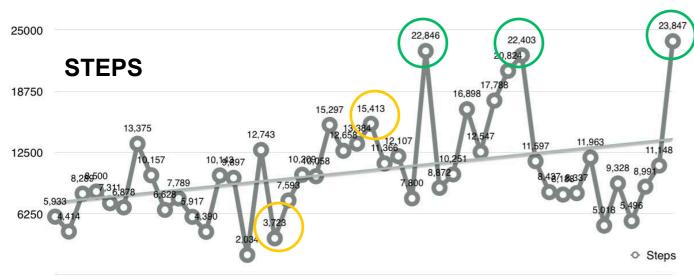


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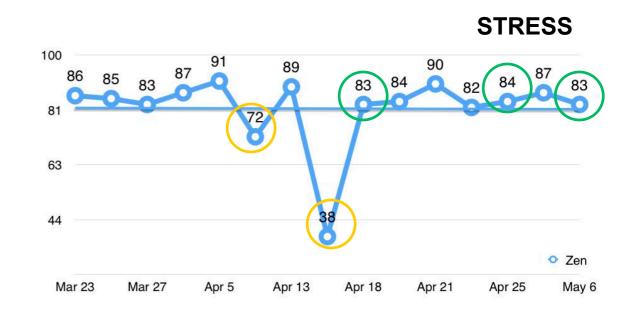
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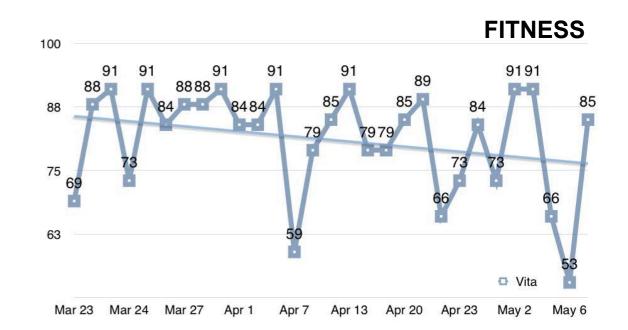


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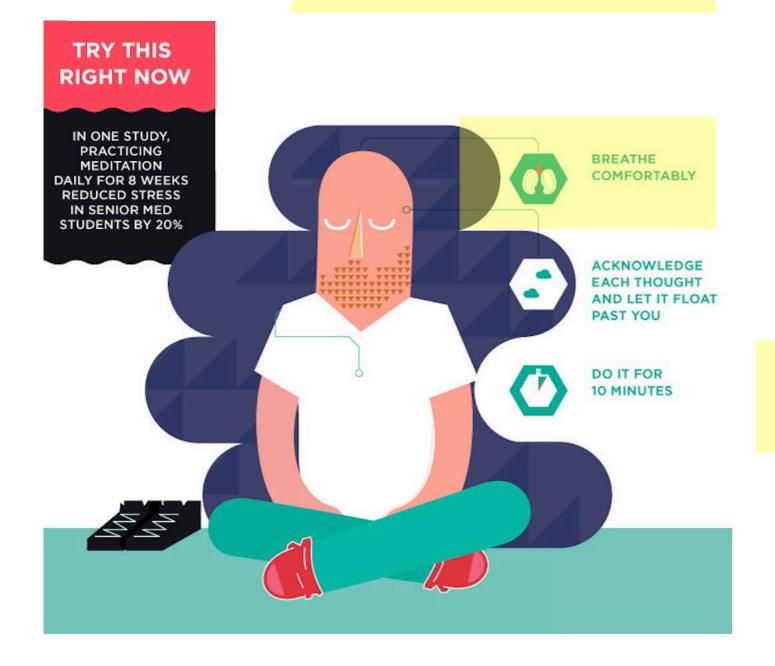
Stress affects Fitness (TREND-LINE)



More Steps X= Fitter (TREND-LINE)

AIM FOR AT LEAST 2 HOURS AND 30 MINUTES

OF MODERATE-INTENSITY AEROBIC ACTIVITY EACH WEEK



THREE THINGS TO DO (10 MINUTES EACH) = 30 MINUTES OF PHYSICAL ACTIVITY

WHEN DOING AEROBIC ACTIVITY, DO IT FOR AT LEAST 10 MINUTES AT A TIME.





50

TAKE A WALK AROUND THE BLOCK DANCE TO THREE OF YOUR FAVORITE SONGS GO FOR A BIKE RIDE

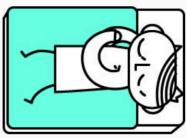
If sleeping more isn't an option, take a nap!

Cognitive Functionality increases by 40% after a 20 Minute Nap

A 20 minute nap 8 hours after you wake up will boost your stamina more than sleeping an extra 20 minutes in the morning

A 30-minute siesta three times a week lowers heartrelated death risk by 37%

A 20 minute nap is more effective than 200mg of caffeine



thank you.

Juliana Chua | Zensorium

i. What did I do?ii. How did I do it?iii. What did I learn?

