# STAR moments and wonder

Telling Stories with Data December 6, 2017



# Plan for today

**Translation** 

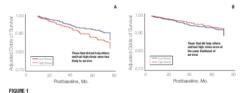
STAR moments and wonder



### HOW TO MAKE STRESS YOUR FRIEND

#### **BAD NEWS FIRST**

Kelly McGonigal has bad news for us, if you stress (which we all do), and you think that stress is bad for your health; your chances of dying will dramatically increase. This new study shows that those that not only stress but also think that stress is harmful to your help has a 43 percent increased risk of dying. Over those eight years, that the study by Abiola Keller et al. took place 182,000 died prematurely not from stress but the belief that stress what bad for them. These overwhelming results scared Kelly McGonigal.



Numbers of stressful events in the past year for those who (a) clid not help close others and (b) clid help close others.

#### THE GOOD NEWS

### Those that think stress is harmful have a 43% increased risk of dying.

However, those that were interviewed in this same study that experienced a lot of stress but did not think stress was harmful were not only less likely to die but also had the lowest risk of dying of anyone in the study. Therefore, it is possible to make yourself healthier by changing how you think about stress; because when you change your mind about stress you can change your body's response to stress.

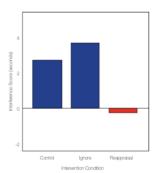
#### **HOW TO DO IT**

Kelly shows that how to hone in the power of stress through the study conducted by Harvard University. They intentionally stress out the participants in the control group; they then taught the treatment group how to rethink their stress responses. They taught them to think about breathing faster is just getting more oxygen to the brain, that their heart rate going up is preparing them for action and in effect helping their blood vessels to relax instead of constrict.



#### THE GOOD SIDE-EFFECT

One of the biggest, most under-appreciated aspects of stress response is that stress makes you social. This is due to the neuro-hormone, oxytocin. Oxytocin is released in the stress response and motivates you to seek support. This biological response is nudging you to tell someone how you feel instead of bottling it up. Therefore, when your life is difficult, your stress response wants you to surround yourself with people you care.



### Figure 2. Interference scores as a function of intervention condition. Higher values indicate greater attentional bias for emotionally-negative information. Error bars recreasent +/- standard error of the mean.

#### A LITTLE MORE BAD NEWS, THEN SOME GOOD

In this last study, they looked at if helping others can reduce your chances of dying from stress. The bad news is that major stressful life events, increased the risk of dying by 30 percent. However, and here is the good news, people who spend time caring for others showed absolutely no stress-related increase in dying. This leads to Kelly McGonigal's conclusion that stress gives us access to our hearts and when you choose to view stress in that way you can trust yourself to handle life's challenges.

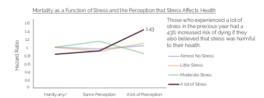
### How to Make Stress your Friend

Kelly McGonigal Health Psychologist

How much stress have you experienced in the past year? The question that most studies of stress begin with. With the help of three likewise stress studies, Kelly McGonigal shares insight on the upsides of stress.

#### Perception and Mortality

According to a study conducted at the University of Wisconsin, the combination of higher stress levels and the perception that stress affects health increases the likelihood of worse physical and mental health conditions and even premature deaths<sup>1</sup>.



After determining that the perception of stress affects your health, the question now posed is, can changing your perception of stress increase your health? The answer is YES!

Perception that Stress Affects Health

#### **Mind Over Matter**

A study conducted by two Harvard University professors and one University of California, San Francisco, proved that the way you perceive stress has physical health ramifications<sup>2</sup>. This study utilized the Trier Social Stress Test (TSST) and had subjects participate in a series of stressful situations to invoke the body's natural response to stress (i.e. increased heart rate, increased breathing, sweating, etc.) Prior to the test, the manipulated participants were informed of the functionality of stress signals which resulted in lower stress levels and higher confidence during the TSST. In terms of physical benefits, those in the control group showed constricting blood vessels in stressful situations while the blood vessels of those who were informed stayed relaxed.



#### Service and Stress

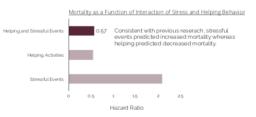
Kelly McGonigal explains that Oxytocin is a neuro-hormone that is released in stressful situations. That same

hormone increases your empathy and willingness to serve. It moves you to seek support and support others in return in times of high stress. A study

"Stress gives us access to our hearts... when you chose to view stress in this way...you're saying that you can trust yourself to handle life's challenges."

-Kelly McGonigal

done evaluated the relationship between helping others and its effect on the association of stress and mortality<sup>3</sup>. A Cox regression found that when coupled with service, stressful events predicted decreased mortality as opposed to stressful events alone.



Overall, the perception of stress can transform the way your body naturally responds and the overall experience you undergo.

#### Citations

Abiola Keller et al., "Does the perception that stress affects health matter? The association with health and mortality", Health Psychology, September 2012

<sup>2</sup> Jeremy P. Jamieson et al., "Mind over matter: Reappraising arousal improves cardiovascular and cognitive responses to stress", Journal of Experimental Psychology, August 2012

<sup>3</sup> Michael J. Poulin et al., "Giving to others and the association between stress and mortality", American Journal of Public Health, September 2013

Photo by rawpixel.com on Unsplash.



#### MYTH: STRESS IS TERRIBLE FOR YOUR HEALTH.

Most students deal with stress on a daily basis. Papers need to be turned in, deadlines loom like a cloud of darkness, and finals week is often approached with complete despair. In response, students become stressed and anxious. Their hearts race, palms sweat, and their stomachs become ill. Most view these symptoms as a bad thing and poor for their health. However, researchers have recently found that stress actually isn't as bad for someone's health as previously thought

### FACT: STRESS IS NOT BAD FOR YOUR HEALTH IF YOU CHOOSE TO BELIEVE IT ISNT.

Next time, you feel your heart start to race or feel that dreaded stomach drop when anxiety hits, think of it as your body rising to the challenge to help you overcome your obstacle. One study has shown that when you consciously frame stress in a favorable light, you body will react positively and you won't experience negative health effects that may increase your mortality risk. From another study, researches found that helping others when stressed also reduced the chance of premature death. Stress did not predict a risk of premature death among individuals who provided help to others in the past year, but stress did predict an increased risk of premature death among those who did not provide help to others. So cheer up, frame stress postively, and help others to live a healthier and happier life.

STRESS BY THE NUMBERS

180 MILLION

AMERICAN ADULTS,

SAY STRESS AFFECTS
THEIR HEALTH &

SAY IT HAS NO EFFECT ON THEIR HEALTH.

OF THOSE WHO SAID YES

43%

EXPERIENCED AN INCREASE OF PREMATURE DEATH.

OF THOSE WHO SAID NO

0%

EXPERIENCED AN INCREASE OF PREMATURE DEATH

A STRESSFUL EVENT PREDICTS A

30%

INCREASE OF PREMATURE DEATH AMONG THOSE WHO DID NOT HELP OTHERS.

SOURCES: Michael J. Poulin et al., "Giving to Others and the Association Between Stress and Mortality," American Journal of Public Health 103, no. 9 (September 2013): 1649–55, doi:10.2105/ajph.2012.300876.
Abiola Keller et al., "Does the Perception That Stress Affects Health Matter? The Association with Health and Mortality," Health Psychology 31, no. 5 (2012): 677–84, doi:10.1037/a0026743.
IMAGE: Photo by Tim Gow on University of the Property of the Psychology 31, no. 5 (2012): 677–84, doi:10.1037/a0026743.



### Kelly McGonigal How To Make Stress Your Friend

How stress encourages both courage and connecction



### Courage

- Stress increases blood flow and the amount of oxygen that reaches the brain, energizing the body and preparing it to face challenges.
- Those who believe that stress is helping them to be courageous experience the benefits of stress without the same health consequences

48%

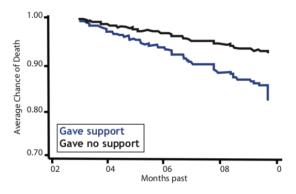
Of those who believed stress was bad for their health died 5x

Less likely to have stress related health problems if you have positve beliefs about stress



#### Connection

- Stress releases oxytocin, oxytocin encourages connection, and connection negates many of the negative effects of stress.
- Likelyhood of death increases 30% for those who experience major stressful events. Those who spent time givving support to others did not experience the same negative effects.

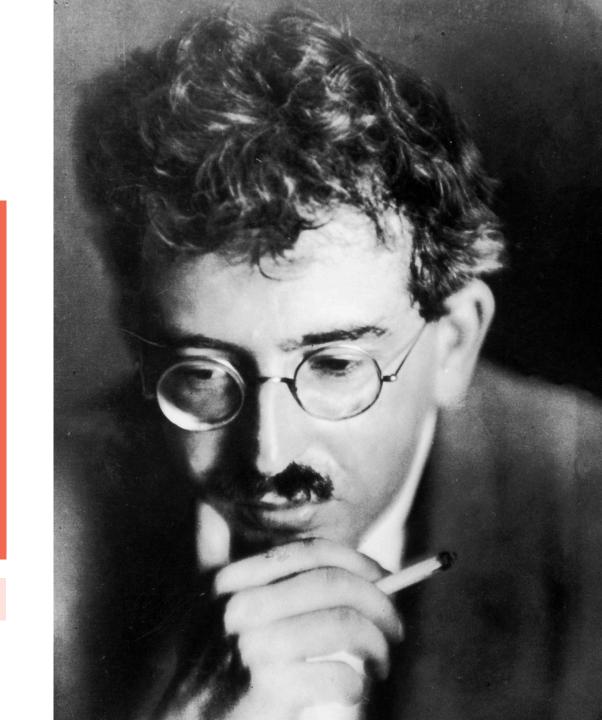


# Translation

### Translation

"...the task of the translator consists in finding that intended effect upon the language into which he is translating which produces in it the echo of the original"

Walter Benjamin, The Task of the Translator



### **Clément Marot** (1537)

### **Douglas Hofstader**

- 1.It is made up of 28 lines.
- 2. Each line has 3 syllables.
- 3 The stress falls on the last of these syllables.
- 4.It is a series of rhyming couplets (AA BB CC DD...)
- 5. After line 14 the formal "vous" is replaced by the more colloquial "tu".
- 6. The last line echoes the first.
- 7. The poet slips his own name into the poem.



### A une Damoyselle Malade

Ma mignonne, Je vous donne Le bon jour; Le séjour C'est prison. Guérison Recouvrez. Puis ouvrez Votre porte Et qu'on sorte Vitement. Car Clément Le vous mande. Va. friande De ta bouche. Oui se couche En danger Pour manger Confitures: Si tu dures

Trop malade,

Couleur fade

Tu prendras,

L'embonpoint.

Dieu te doint

Santé bonne.

Ma mignonne.

Et perdras

Then open Your door. And go out Quickly, For Clément Tells you to. Go, indulge Of thy mouth, Lying abed In danger, Off to eat Fruit preserves; If thou stay'st Too sick. Pale shade Thou wilt acquire, And wilt lose

Thy plump form.

God grant thee

Good health.

My sweet.

To a Sick Damsel

My sweet

I bid you

The stay

Is prison.

Recover.

Health

A good day;

### **Fairest Friend**

Fairest friend. Let me send My embrace. Quit this place, Its dark halls And dank walls. In soft stealth. Regain health: Dress and flee off with me. Clement, who Calls for you. Fine gourmet, Hid from day, Danger's past, So at last Let 's be gone, To dine on Honeyed ham And sweet jam. If you're still Wan and ill. You will cede Pounds you need. May God's wealth Bless your health Till the end. Fairest friend.

### **My Sweet Dear**

My sweet dear, I send cheer— All the best! Your forced rest Is like jail. So don't ail Very long. Just get strong-Go outside. Take a ride! Do it quick, Stay not sick— Ban your ache, For my sake! **Buttered** bread While in bed Makes a mess, So unless You would choose That bad news. I suggest That you'd best Soon arise. So your eyes Will not glaze. Douglas prays

Health be near.

My sweet dear.

#### [Prose version]

My small princess, I send you a warm hello. Your long stay in bed has been like a term in prison. Uncle Clement urges you to recuperate, and to get out of there soon. You've always loved sweets, so don't let being bed-ridden stop you from indulging have some jam! And don't stay sick too long, because you'll get ghostly pak and start looking like skin and bones. God will surely bring you back to good health, my small princess.

Literalist

**Functionalist** 

Conceptual

### **Clément Marot** (1537)

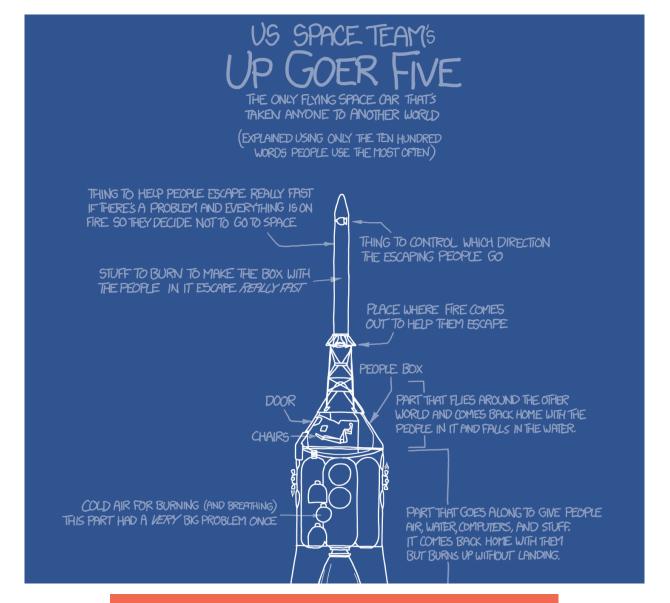
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- 6.The last line echoes the first.
- 7. The poet slips his own name into the poem.

My dear friend, Here I send You my best. This ain't rest. It's a trap; Grab your cap. Feel alive, Flee the hive, Through the door. Go explore. As Clement Said he'd want. Go indulge, Feed the bulge, All tucked up there to sup Jellied fruits. Listen, toots, Get well soon Or new moon Turns your twin; Pale and thin. From on high, The big guy Hopes you mend, My dear friend.

My sweet girl please unfurl, it is day. Join the fray, blow the pen o'bedridden! Salve with haste. leave this place! End those snores Out the door! Quick my sprout, go get out! It's Matt's rule. Stop your drool and fill up! Mouth to cup! Although bed and warm bread sound real nice. do think twice. You'll get white, thin and slight! Please bestow your warm glow Upon us here amongst your peers. Heal young pearl. My sweet girl.

Sweetie Pie. First off: Hi. (Hashtag hug.) Why not shrug Off the sheet And retreat From the bed? Clear your head— You'll feel swell-What the hell! Out we'll go, Catch a show Hit the zoo Go canoe. Grab a beer Far from here. Come on, please: Herbal teas And some toast Are a most Awful snack. Don't lie back And just snore: What a bore! Rise and shine Darling mine, Len says try, Sweetie Pie.



http://splasho.com/upgoer5/

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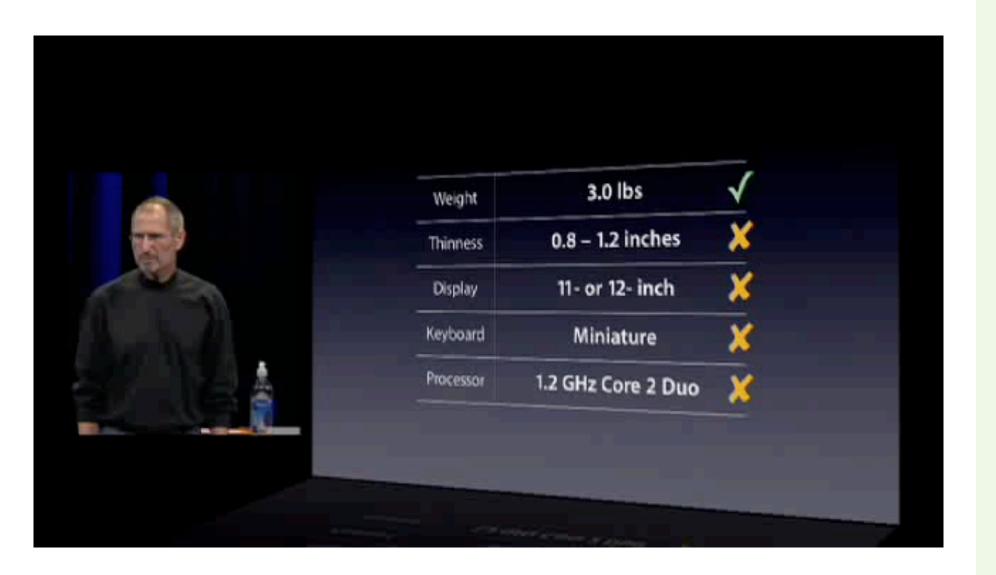
# Creating wonder

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories** 



## Steve Jobs

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories** 



Bill Gates, "Mosquitos, malaria, and education," TED2009

### Bill Gates

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories** 



Chieko N. Okazaki, "Baskets and Bottles," April 1996

## Cheiko Okazaki

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories** 



Jeffrey R. Holland, "Safety for the Soul," October 2009

# Jeffrey R. Holland

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories** 

# Repeatable sound bites

Yes We Can Tender mercies

That's one small step for man, one giant leap for mankind

...and that government of the people, by the people, and for the people shall not perish from the earth

# Sound pieces







How does a bastard, orphan, son of a whore and a

Scotsman, dropped in the middle of a

Forgotten spot in the Caribbean by providence

Impoverished, in squalor

Grow up to be a hero and a scholar?

"Alexander Hamilton" on "Hamilton (Original Broadway Cast Recording)"

# Evocative visuals

(be ethical and preserve dignity)



## What about the stuff you do?

Memorable dramatization Props, demos

Repeatable sound bites Rhetoric

**Evocative visuals** Images

**Emotive storytelling Stories**