A QUESTION OF TIME

26 JUNE 2024





ANGE ALBERTINI

35 years of reverse engineering.

20 years of infosec, currently at Google/Mandiant/Flare.

File formats fan.

Fully remote (single father of three).

French (sarcasms and swearing).

DISCLAIMER

This talk contains contradictory opinions! Not necessarily mine: variety is good!

Be tolerant: we **all** have different opinions.





Times are changing.

TOOLING EVOLVE.

BASICS REMAIN THE SAME.

Your tooling fails? Fall back to the basics.

Don't get too dependent on your tooling.

No gatekeeping please: we're time travellers.



Troopers 2008: Invulnerable software

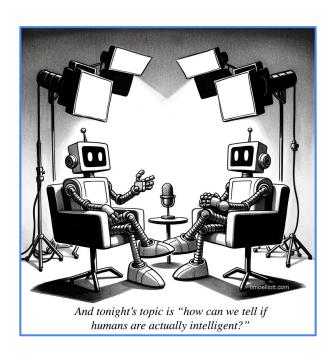
A.I. in Infosec

A NEW FACTOR BUT IN THE SAME OLD CAT & MOUSE GAME ?

AI never doubts, even when wrong. Misleading, unreliable and irresponsible. Same old need for human expertise.

What about...

HUMAN INTELLIGENCE?

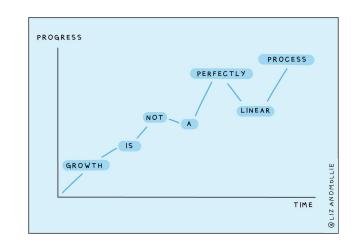


Doubt is critical.

HAVING A SECOND LOOK. FAILING, THEN RECOVERING.

It's ok to have no idea what to do next, to be wrong, to "take too long".

It's only human.



Some people pretend they're flawless.

THEY'RE ONLY INSECURE

AND RIDICULOUS.

"I was never sick, I never had an accident, I never disappointed my parents, I liked all my teachers". 🤔 😂 🤦

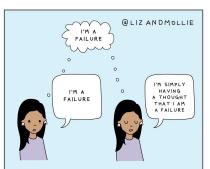
Time-saving or denial?
In any case, it's useless if not deceptive.

It's not about denying your failures!

ACKNOWLEDGE YOUR FAILURES

THEN SHAKE THEM OFF.

Or maybe don't:
scr*w these negatives thoughts!
They just slow you down, ruin your life!
B*at them whenever they pop up in your brain.
Every. F*cking. Time!



No one is perfect!

No one knows everything, but you already know a lot.

You know many things that people around you don't.

Maybe you just don't understand it yet.

It might take you a long time to realize that.

You should know that you can be



It might just takes time and effort to realize it.

This whole "praise the top / shame the bottom" trend wants us to forget it and just worship some champions.

TRENDS & MYTHS

Very misleading representations of reality:

- Easy success, single-handed victories, instant wins.
- Doing well -> fame -> money == appearance.



There's no hidden shortcut!

TRUST YOURSELF MORE,

WORSHIP LESS.

Talk to your <u>rubber duck</u>.



Betray your idols!

HARD THINGS TAKE TIME.

If you can still count how much you've tried, it's probably not much.



"The art of like twirling or doing tricks with a pen in a very appealing nice looking way.

Make it look like it's easy even though it takes like hours and hours and hours of practice."

- I iveOverFlow

right now.

- fuck checking facebook again,
- fuck that pic you just saw on instagram,
- ft ck worrying about how many people liked your last post
- fuck the new
 - ft ck that person you really should email back,
- ft ck your self-doubt,
- fi ck whatever happened yesterday
- t ck starting tomorrow,
- fuck will people like this,
- fick will this be good enough...

fuck all of your excuses.

sit the fack down and do your work.



"How can I..."

If after a long time, you never tried, then you were probably never actually interested;)

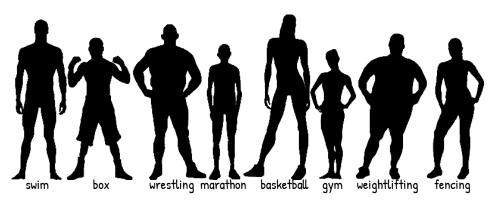
And if you still hate it after X tries, then be honest and move on ;)

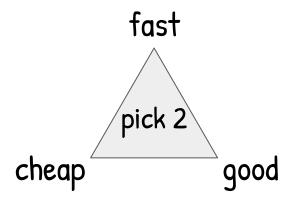




"Any skill can be acquired" 🤦

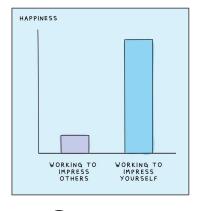
BUT YOU CAN'T BE GOOD AT EVERYTHING!





Body types of olympic athletes

Still not "good enough"?



TRY SOMETHING DIFFERENT?

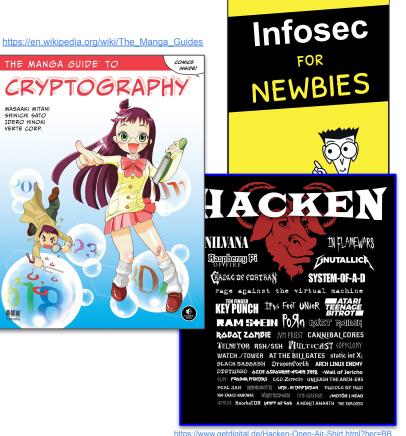
Don't hurt yourself trying to please everyone.

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VARIETY IS GOOD!

SAME KNOWLEDGE, ANOTHER FORMAT.





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No point in reinventing the wheel?

SOMETIMES, IT'S REALLY WORTH IT!











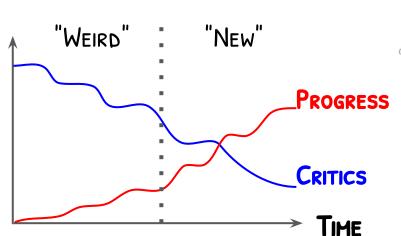
DON'T BLAME YOURSELF:

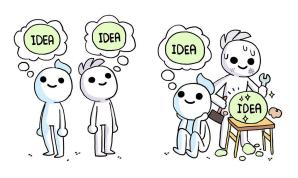
YOU CAN'T KNOW THE PATH IF THERE IS NO MAP.

No support from others?

Others can't always share your perspective.

No, not even your close ones!









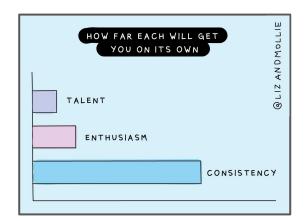
Story time

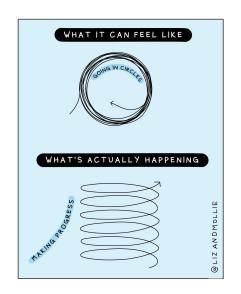
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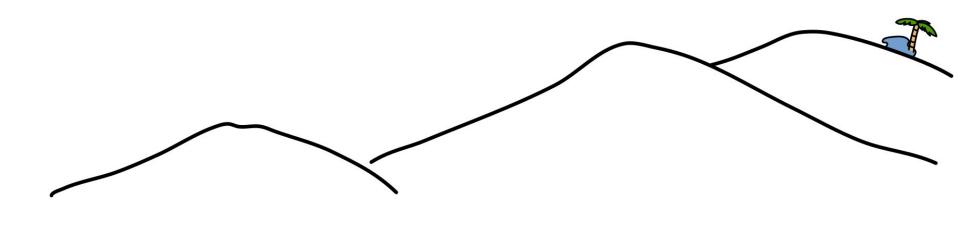
IT'S OK TO FEEL STUCK IN A LOOP

Consistency is great! You're in the right direction.

Just take one small step after another...







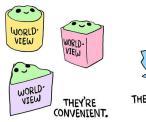


A SINGLE SUCCESS IS
A LONG TRAIL OF FAILURES.

IT'S OK TO STOP

LIES ARE SOFT AND SQUISHY.











HARD TO EMBRACE.

WORTH EMBRACING

Be honest with your mistakes. Acknowledge them. Kill your own project early! (You got experience anyway!) Ask for honest (direct, but constructive) feedback. No need to find excuses, to hide behind lies or hype.

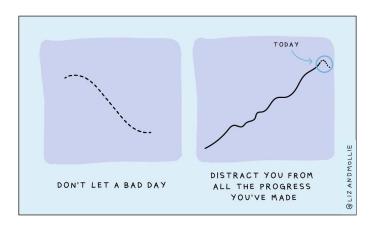
So, lose with dignity, honesty, and don't forget where you come from.

The only person you should compare yourself to is who you were yesterday.

TAKE NOTES ON THE WAY!

CLI statements, results, observations...

- Great to resume your work.
- Easier to explain or write docs.
- Writing down your own progress:
 - -> great against impostor syndrom.
 - -> useful w/ management (especially in remote jobs).



THE IMPOSTOR SYNDROME...

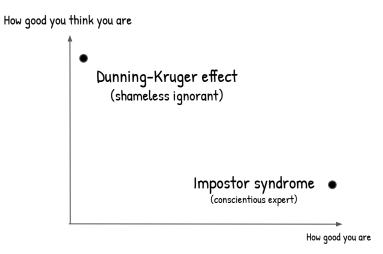
...is here to stay.

...just means that you are self conscious!

...is better than the Dunning-Kruger effect!

...can be bypassed:

- just help someone!
- read your past notes!
- interview candidates!



You think you're only sinking?

A SEED HAS TO SINK

BEFORE IT GROWS.

Maybe you did 'the wrong choices' (whatever that means).

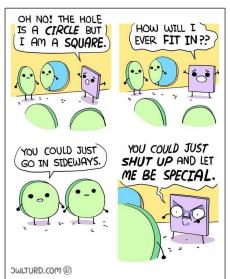
Things may not go as you expected.

But it's human, and it's ok!

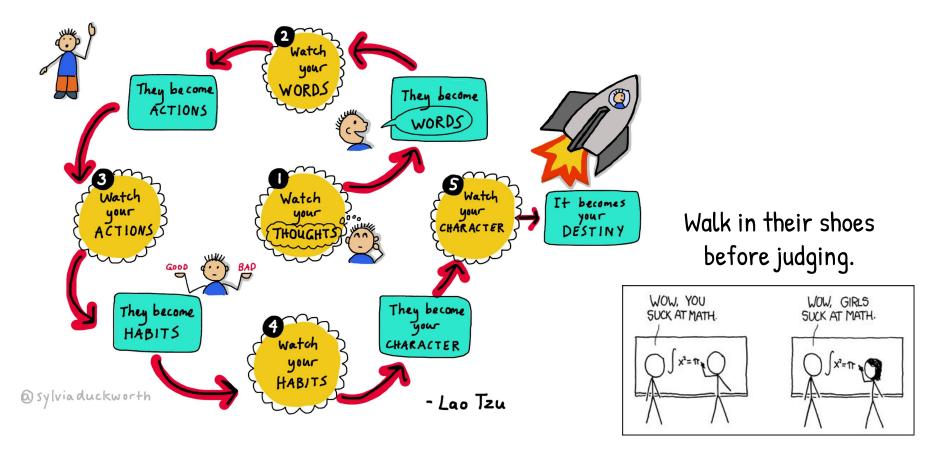
Those looking down on you are jerks or in denial.

IT'S OK TO BE DIFFERENT, NOT TO BE A JERK!





BE WARY OF BAD HABITS: RESPECT IS DESERVED.



Making the world a better place...

... STARTS WITH YOURSELF!

Technical communities tend to just over-focus.

Flood of technicalities and boasted "victories". -> no room for inner self-improvment.



Humans plan and fate laughs.

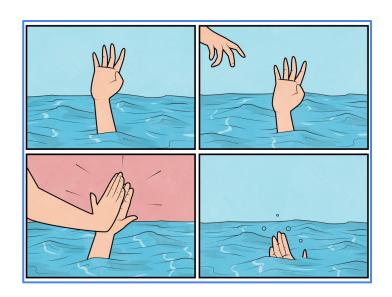
THINGS GO REALLY WRONG SOMETIMES.

"Life is unfair! I want my old life back!"

Your second life begins when you realize you only have one. It's not easy: it can take a long time to accept!

BEWARE OF THOSE EAGER TO "HELP"

...but only according to their own terms (nodding, speaking...). Ignoring your needs, but satisfying their *own* needs.





EXPERTS (THERAPISTS, SOCIAL SERVICES...)

Critical for emergencies!

But time-wasting for other cases?

- it's not their problem.
- "this is normal"...
- just some high-level comfort, like Band-Aid on a bullet wound.
- -> absence of improvements makes you find your own solution!

In case of hardships...

YOUR CLOSE ONES MIGHT BE THE WORST.

ladiat paramativa.

Lack of perspective: their opinion is long fixed - they've known you for a long time.

Not their problem? They can misjudge you endlessly.

No matter the hardships...

Count your luck! Understand your privileges!

It really helps!

Be grateful of the past instead of endlessly nostalgic.

- □ Health
- □ Wealth
- □ Job
 - □ Well-paid
 - Rewarding
 - □ Safe
- □ Love
 - Friendship
- Safety
- Freedom
- Recognition

- Loneliness
- □ Alcoholic
 - □ Drugs
- Adversaries
 - □ Manipulative
 - Dangerous
 - □ Self-mutilating
- Danger
 - ☐ Crime
- Death
 - Mourning

It may be hard to believe, but...

No matter your hardships, you have it *easy*!

Compared to some people.

Always look on the bright side of 1860.

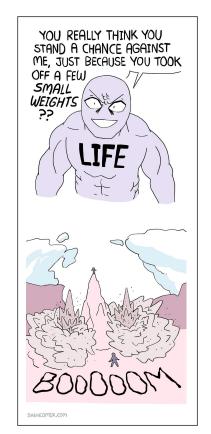
It's not naivety: accept your new fate, lighten your weight.

STOP GIVING A F*CK

There's no end to your tunnel: you are the light.

To everyone else, you're only secondary anyway!





RELATIONS

Everyone has different expectations, understanding of the same situation.

Explain how you feel, it will guide others.

A good relation is about balance, not control. (and not being controlled)

The 5 love languages: gifts, time, touch, service, words.

Faster alone.
Further together.

Story time 40

It's too easy... ...TO WIN WHEN YOU'RE HAPPY.

It's too easy to love when everything is fine.

Alone!= lonely YOU DON'T NEED LOVE OR COMPANY.

Alone == full freedom.

Better alone than in a bad company.

Some 'loners' are just awesome!

Faster alone.

Further together.

But...you'll get nowhere in a toxic environment.

YOU DON'T NEED ANYONE'S VALIDATION.

You might like it. It might help. But ultimately, you don't truely need it.

Remember: you're secondary to anyone else.

On the other hand...

YOU ARE NEVER ALONE! (IF YOU WANT)

Many similar-minded people, communities...

Many incredible persons are out there.

MAYBE IT'S NOT ABOUT YOU.

Your efforts are never enough?



Some people just want to watch the world burn.

They do not care about you.

They want to satisfy their needs more than anything.

It's nice to believe in kindness, but...

Some people will hurt you if they can get away with it.

And they will do it repeatedly... until you fight back or run.

They'll make you think that you're a bad person to hide how badly they've treated you.

But I haven't done anything wrong...?

So WHAT?

Maybe they don't even want to hurt you! But they just don't care if you get hurt.

And maybe it's not a coincidence...

or it's even by design?

They say "jump!",

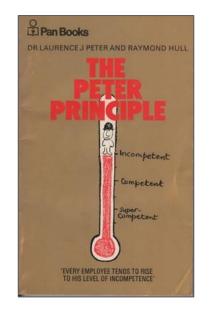
They say "how high?"

Peter's principle (1969) PROMOTION UNTIL

INCOMPETENCE.

A system that promotes competence is good.

But people end up at (or beyond) their limit.
-> everyone ends up incompetent.



Governed by the worst.

SOMETIMES,

INCOMPETENCE IS PREFERRED.

Loyalty >> competence.
Status quo >> progress.

Kakistocracy:

- kakistos: worst
- kratos: power

A "MAFIA-LIKE" STRUCTURE

- reward the worse -> debt/loyalty owed to the incompetent hierarchy.
- trap the skilled one and promote the incompetent to keep competence under control.
- favor incompetence at higher levels -> no fear of comparison.

Maintain the mediocrity or favor progress? Loyalty to that system you're in or to your values?

WITH SUCH PEOPLE...

You may be tempted to bow, and risk your future and your health or more, because they won't stop unless they have to.

Then your close ones might be hurt too.

If not, it's fight or flight.

FIGHT? SOMETIMES, IT'S JUST EMPTY THREATS.

It might take initially time and energy to fight back, but it gets easier.

They pretend something to make you do what you shouldn't. Get your own information, show them that you're prepared.

-> Connect with others! You'll be less vulnerable.

BUT THAT FIGHT MIGHT BE LOST IN ADVANCE.

You might lose yourself in an unfair and endless fight. Better be free than burning yourself out in vain.

Your second life begins when you realize you have only one.

Time to move on?

"Never argue with an idiot. They will drag you down to their level and beat you with experience."
- Mark Twain (1835-1910)

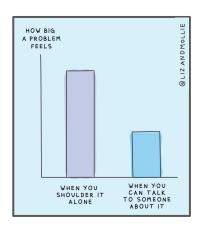
BEING SMART MAKES YOU VULNERABLE.

Questioning things makes you over-think: -> exploitable self-doubt.

Vulnerable to people who don't care about you. Being too nice increase your attack surface.

"Help" is the bravest thing to say.

Asking for help is not giving up: it's refusing to give up.



The Boy, The Mole, The Fox and The Horse by Charlie Mackesy

But "help" can be still hard to say.

THE UGLY DOWNWARD SPIRAL

BECOMES A COMFORT ZONE.

Too nice to fight back.

Too nice to ask for help.

Your denial hides it from you,
and you hide it from others.



MAYBE YOU CAN'T SAVE YOURSELF?

Who you gonna call?





What if...

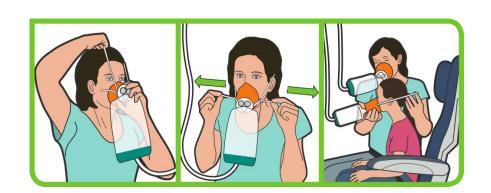
"I AIN'T NO LOSER: I DON'T NEED HELP"

Good for you! Bless your luck and your privileges.

So what? Not everything is about you.

But if it's not about you: YOU CAN MAKE THE WORLD A BETTER PLACE...

...by helping someone else!



It's not always hard:

HELPING SOMEONE ...

...could be as simple as giving them a temporary safe space and time to recover.

Like a child drowning in a calm place...

THEY MIGHT LOOK OK! OR EVEN HAVING FUN ?!

They **need** help, but they can't/won't tell. They just look stuck in a loop.

They'd be totally fine in different circumstances.

Story time 6

"Who cares"?

Some people ARE Drowning...

Right now. Around us.

Peer pressure from family, management, friends...

Depression...

Maybe you can help them!

CONCLUSION

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IT TAKES TIME TO ...

- be grateful of your past.
- understand your lucks and privileges.
- overcome hardships.
- accept your fate and make the best of it, of you.

IT'S GOING TO BE OK!

Maybe not as initially planned.

Not going to be easy. But it will be fine!



WHAT TIME IS IT?

IT'S TIME TO ...

- Realize how awesome you can be, how well you've done so far...
 - despite how bad things turned out, or how people treated you.

- Acknowledge, but shake off these negative thoughts.

- Stop expecting a magic solution, book or tutorial.
 - believe and rely on yourself too!

MAKE THE BEST OF NOW!

- Observe, listen, understand, learn...
- Connect, ask, grow, help...

It has to start somewhere.

It has to start some time.

What better place than here?

What better time than now!

A very special thank you to the organizers!

CONFERENCES HELP US TO RELAX, TO LEARN, TO CONNECT, TO GROW!

Thank you for the continued efforts!

15th Troopers - 2024



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@angealbertini

Infosec...

SO MANY REASONS TO OVER-WORRY...

...and forget about yourself



...or your friends

INFOSEC IS BORING EXHAUSTING HARMFUL!

- very repetitive tasks
- uncertainty is exhausting
- profiteers, abusers



INFOSEC PEOPLE ARE ALWAYS WRONG

- We're the ones preventing projects to launch
- We're easily misunderstood:
 We're supposed to just have to "follow the manual" like any other engineers.
- We discuss hypothetical attacks that never happened yet.
- We publish research that helps to create more attacks.





INFOSEC AND METRICS

Security doesn't have easy metrics, so defense is very political.





About your project's scope

It's managed by a third party

It's a legacy system

It's "too critical to patch"

About your outage Windows

About your budget

You've always done it that way

About your Go-Live Date

It's only a pilot/proof of concept

About Non-Disclosure Agreements

It wasn't a requirement in the contract

It's an internal system

It's really hard to change

It's due for replacement

You're not sure how to fix it

It's handled in the Cloud

About your Risk Register entry

The vendor doesn't support that configuration

It's an interim solution

It's [insert standard here] compliant

It's encrypted on disk

The cost benefit doesn't stack up

"Nobody else could figure that out"

You can't explain the risk to "The Business"

You've got other priorities

About your faith in the competence

of your internal users

You don't have a business justification

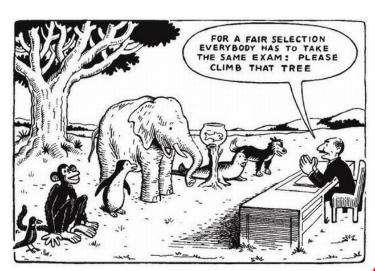
You can't show Return on Investment

You contracted out that risk

YOU JUST CAN'T LEARN THINGS MAGICALLY

Some people can't learn without practice, or without a genuine **motivation**.





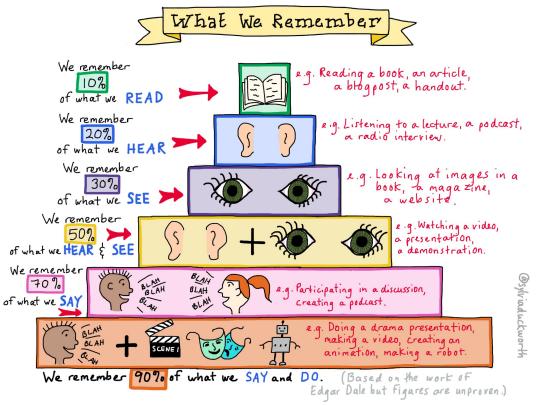
Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.

- Albert Einstein

Story time

SCHOOL USUALLY PROVIDES A UNIQUE FORM OF LEARNING

Find your own!





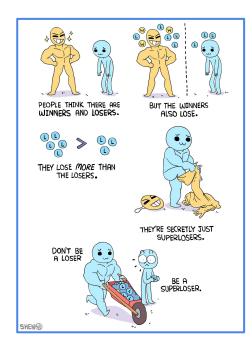
Story time

School taught us that failure is not an option

We were all born "hackers"...
...then rules are enforced.

And now our work is full of experimental failure.





ONCE STUDIES ARE OVER...

Are diplomas useless?

MAYBE THEY RE NOT

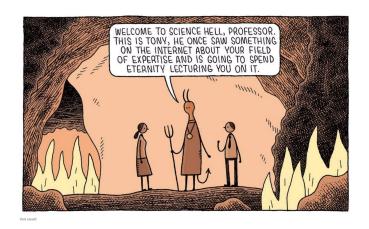
WHAT YOU EXPECTED?

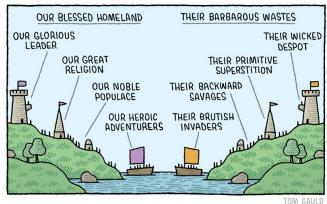
- + gives time to focus
- + enforce good habits
- + an advantage / privilege
- + a private social network
- an illusion
- meaningless rating

Some people are never satisfied...

- Arrogance
- Dunning-Kruger effect
- Gatekeeping
- Kakistocracy











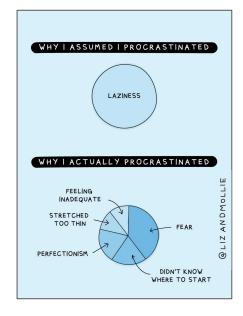


DON'T BURN YOURSELF TRYING TO BE PERFECT!

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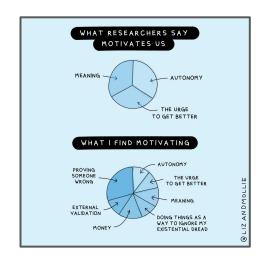
Focus on yourself first!

Take breaks too!

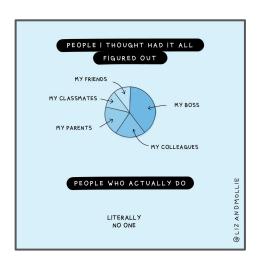




IT'S OK IF YOU GOT IT WRONG SO FAR!







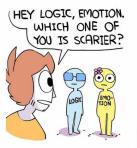
Some people **WILL** TAKE THE WORST DECISIONS...

Even against their own interests or their friends'/family's

Fears/traditions/ideologies are sadly taken into account

No matter how stupid they are: sexism, racism, religion...











OWLTURD.COM 2

FAILURE WAS NOT AN OPTION

Toddlers learn by trying and failing. Everybody is born "hackers".

School has no time for that.

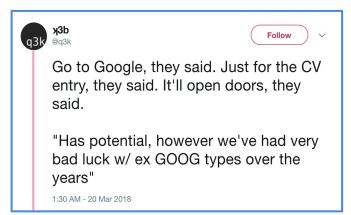
You must get it right **before** the next test.

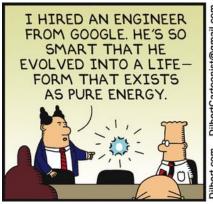
-> Many adults are uncomfortable with experimenting.

FIRST
ATTEMPT
IN
LEARNING



It's ok to be insecure, not to be a jerk









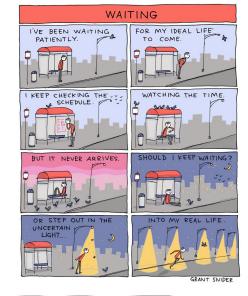
YOUR PRESENT OR PAST IS NO EXCUSE!

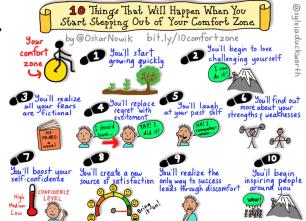
Regrets?

DON'T BEAT YOURSELF UP! (TOO MUCH)

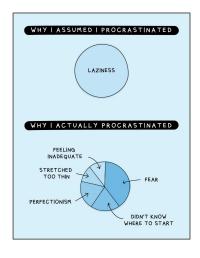
Regrets are just normal.

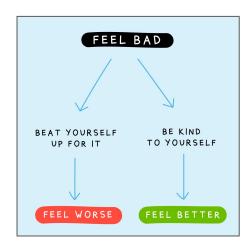
They gives us the boost to try harder, be bolder.

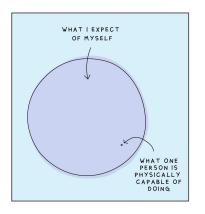




DON'T BE TOO HARD ON YOURSELF



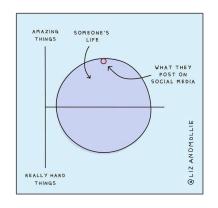


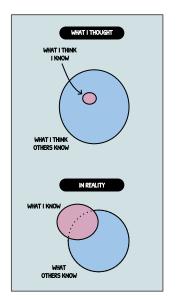


STOP COMPARING YOURSELF

Your skills and experience are just different. Spend time finding/acknowledging yours.







HEALTH

You're not 'smart' if you're healthy. You're just lucky enough.

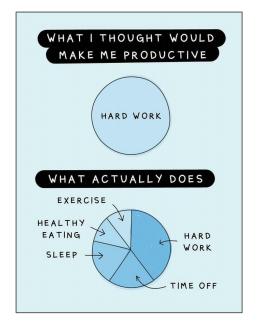
There's no health credit.

Take care of yourself!

Buy that better pillow, brighter lamp, get rid of these uncomfortable shoes!





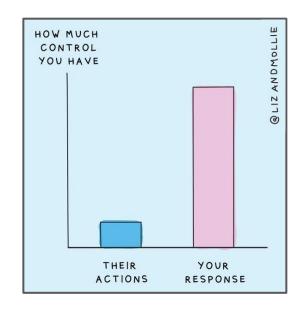


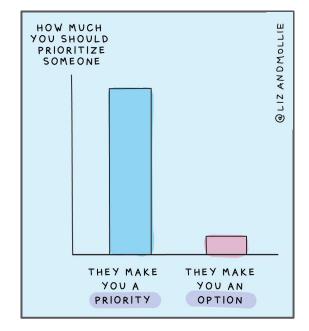
Add to Basket

(if it's for your health)

Story time

SAY NO! OR DE-PRIORITIZE!

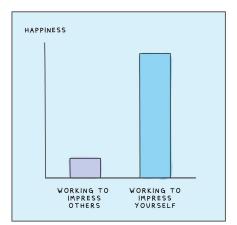


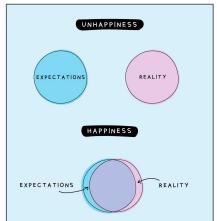




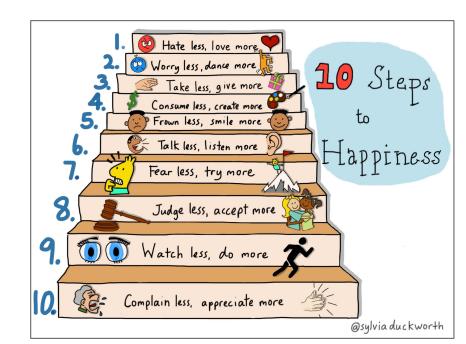
LOOKING FOR HAPPINESS?







- Be patient. No matter what.
- Don't badmouth: assign responsibility, not blame. Say nothing of another you wouldn't say to him.
- Never assume the motives of others are, to them, less noble than yours are to you.
- Expand your sense of the possible.
- Don't trouble yourself with matters you truly cannot change.
- Don't ask more of others than you can deliver yourself.
- Tolerate ambiguity.
- Laugh at yourself frequently.
- Concern yourself with what is right rather than who is right.
- Try not to forget that, no matter how certain, you might be wrong. 10.
- Give up blood sports. 11.
- Remember that your life belongs to others as well. Don't risk it frivolously. 12.
- Never lie to anyone for any reason. (Lies of omission are sometimes exempt.) 13.
- Learn the needs of those around you and respect them. 14.
- Avoid the pursuit of happiness. Seek to define your mission and pursue that. 15.
- Reduce your use of the first personal pronoun. 16.
- Praise at least as often as you disparage. 17.
- Admit your errors freely and quickly. 18.
- Become less suspicious of joy. 19.
- Understand humility. 20.
- Remember that love forgives everything.
- 22. Foster dignity.
- 23. Live memorably.
- 24. Love yourself.
- Endure. 25.



Adult principles by John Perry Barlow

WHAT VIDEO GAMES TAUGHT ME

- 1. If you are facing new challenges/obstacles, then you're going the right way.
- 2. No one blames you if you have to check the map.
- 3. Always come prepared.
- 4. Everyone is worth talking to.
- 5. Even if you don't get money for something, you always get experience.
- 6. Explore!
- 7. The places that are hardest to get to always have the best rewards.
- 8. The best way to become someone's friend is to actually talk to them.
- 9. If you want to be someone's friend faster, also give them food.
- 10. Don't hold on too much crap, you'll fill up your inventory.
- 11. Don't be deterred if a challenge was too much for you: go back, level up, increase your skill, and try again.
- 12. You don't learn anything if you get someone else to do it for you.
- 13. Don't feel like you have to plow through the main story. The best content is sometimes in the side quests.
- 14. If you've tried and failed 30 times, you probably missed something. Go back and look around.
- 15. Never judge someone's skill solely on their achievements; you don't know how they got them.
- 16. When you succeed after multiple failures, you feel so much more accomplished.
- 17. Take full advantage of character customization.
- 18. Decisions rarely only affect you. Please choose wisely.

30 CHARACTERISTICS OF MANIPULATORS BY ISABELLE NAZARE-AGA

They make other people feel quilty, in the name of professional conscience, family ties, friendship, love, etc.

They unload their **responsibilities** onto others or dismiss their own responsibilities. / They do not *clearly* communicate their requests, needs, feelings or opinions.

They often respond **vaguely**. / They **lie** / They are **self-centred**. / They cite all kinds of logical reasons to **disguise** their requests.

They change their opinions, behaviours, or feelings depending on the person or situation. / They make veiled threats or openly resort to blackmail.

They make others believe that they must be perfect, never change their minds, always know everything, and immediately respond to requests and questions.

They **cast into doubt** the qualities, skills and personalities of other people—they criticize without appearing to do so, devalue and judge.

They have their messages communicated by other people or via intermediaries (telephone instead of face-to-face, written notes).

They create **suspicion** and stir up ill feeling; they **divide to conquer**, driving a wedge between people, which can lead to relationship break-ups.

They know how to make themselves into **victims** to gain sympathy (e.g. exaggerated illness, « difficult » surroundings, overloaded at work).

They ignore requests (even if they **claim** to be taking care of them). / They use **flattery** to seduce us, give gifts or suddenly start waiting on us hand and foot.

They use the moral principles of others (e.g. notions of humanity, charity, racism, « good » or « bad » mother) to satisfy their needs.

They abruptly **change topic** in mid-conversation. / They avoid or get out of discussions and meetings. / They cannot take **criticism**, and **deny facts**.

They make false statements to discover the truth, twist and interpret facts to suit themselves. / They can be jealous, even if they are parents or spouses.

They do not take into account the rights, needs and desires of others. / They make us do things that we would probably not have done of our own free will.

They often wait until the last minute to ask, order or have others do something. / They rely on the ignorance of others while vaunting their own superiority.

Their words appear logical and consistent, while their attitudes, actions or lifestyle are totally opposite.

They generate a state of **discomfort** or of not **being free** (trap). / They are excellent at meeting their **own goals**, but at the **expense of others**.

They are constantly the focus of conversation among people who know them, even if they are not present.

If you now someone with 14 of these characteristics, beware!

WHAT REBELS WANT FROM THEIR BOSS

https://www.rebelsatwork.com/blog/2017/04/19/what-rebels-want-from-our-bosses

- 1. We are not troublemakers. We're motivated to make our organization better than it is.
- 2. We care more about work than most people. That's why we're willing to engage in controversy.
- 3. We need a work environment where it's safe to disagree and ask questions that challenge the status quo.
- 4. The more diverse a team's mindsets and experiences, the more creative the team. We may not be like you and that is a good thing. Love our differences and quirks.
- 5. Challenge us. Give us the thorniest problems. Let us prove that our "wild ideas" can work. We want to be stretched, not do work as usual.
- 6. Don't give us lip service. If one of our ideas isn't important to our goals or it's just too radical for the culture, tell us that, not something glib like, "there's no budget or resources."
- 7. Coach us on how to navigate organizational politics so we avoid making mistakes that could embarrass you and us.
- 8. Rebelliousness is an act of courage and risk-taking. It's a positive behavior.
- 9. Tell us what we're doing right more than what we're doing wrong. Appreciation is the greatest sustainable motivator at work. Give us more and we'll move mountains for you.