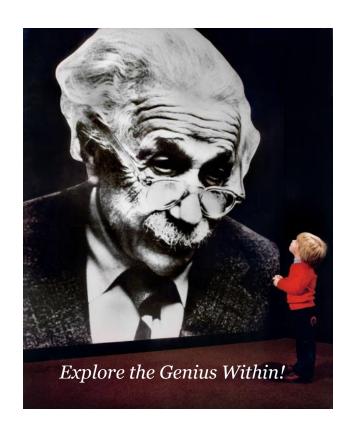
useit@rloseit

Starter

I can do anything
I want to do,
I can do anything
at all,
If I want it
badly enough,
If I work
hard enough,
If I have a little
patience
— But not too much.

Gina Ginsberg-Riggs



Did you know?

- Your **brain** has about 100 billion brain cells called neurons.
- Neurons can **communicate** with each other.
- ♦ A teenage brain can make up to 500 trillions of **connections** every second. (500.000.000.000.000)
- It's the number of connections your brain can make that shows how clever you are.
- Thousands of connections die every second.
- The more you use your brain the more connections it keeps making.
- Only the connections you use will **survive**.
- ♦ The brain weighs about 2% of your body weight, but it uses 25% of the oxygen you breathe in.
- We normally use less than one per cent of our brain's **potential!**
- You can do anything you believe you can, if you put your mind to it!



Brain cells – The brain is made of cells, just like all the rest of the human body. The number of brain cells in a newborn baby is about 100 billion. This number will **remain** about the same throughout life. The difference between brain cells and other cells is that they can communicate with each other, others cannot.

Connecting – The brain cells communicate with each other by making numerous connections from one to another. It's the connections of the brain cells that can change, become more and faster or less and slower, depending on whether we use them or not.

Losing connections – A small child learns **incredibly** many things in a few years' time. The brain of a five-year-old can make 1,000 trillion connections per second (1,000,000,000,000). After that the connections start dying. By the age of ten half of them are left and by the **teens** thousands of connections die every second. Only the ones we use will survive.

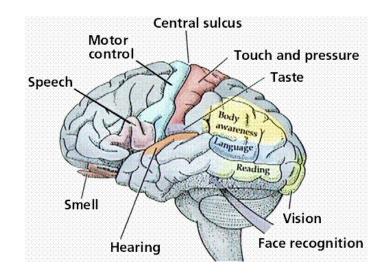
Lighten up! – The brain has different areas for different kinds of tasks. This can be seen with a magnetic camera, as these areas lighten up when a person is doing specific things. The activated area is busy with making thousands of connections between the cells. The brain is using energy and it's the energy that shows in the camera.

New science – It was not until in the 1990s that scientists found a way to look into a living person's brain and see what happened in it while the person was thinking, feeling and learning. Although this science is still very young, we have already learned more about the brain in these 10+ years than in the 100+ years before that.

Learning – When you start to learn a new thing, like playing a new game, your brain needs a lot of energy and a big area is activated. The better you learn to play the game the smaller area your brain needs to do the task. Now the rest of the brain is free to do other things.

Memory – The brain works by making connections. When it hears a new thing it tries to connect it with something that it already knows. That's how you can keep things in mind and remember them, by connecting the new with old.

Practice – Think of your brain as a big jungle. You want to go from one place to another through the jungle and there is no **path**. You have to cut out the path, which takes a lot of energy. Next time you go the same path it is easier. The more you go there and back, the easier it gets, because the path stays open. But if you stop using the path for a while, it will soon grow new grass, bushes and trees.

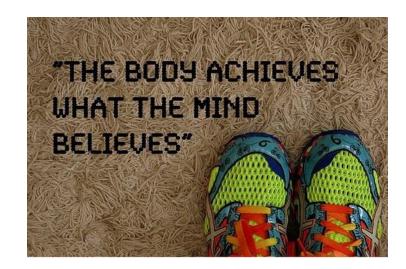


A healthy mind in a healthy

Your brain can't work alone without the **support** of a **fit** and strong body. When you exercise to keep fit, you start breathing deeper.

This **causes** your lungs to work more **efficiently** and your body gets more oxygen. Your brain needs a lot of oxygen to **function** well.

Also, your brain works better and faster if you keep feeding it with many different tasks: **physical** exercise, creative activity and **relaxation** as well as study.



Brain Food

Fish –The original "brain food" **contains** lots of omega-3 and fish oils.

Vegetables – This is a great source of antioxidants, which may **reduce** the loss of **cognitive ability**.

Fruits – Red and dark berries, **plums**, avocados, oranges, cherries and kiwis are rich in antioxidants.

Water – Not food, but very important. Let your body never get thirsty!

Chocolate – The darker the better; cocoa beans contain flavonoids and antioxidants. The sweetest way to improve your memory!



Brainy Activities

Sleep – Most of us don't get enough shut-eye, which hurts cognitive **performance** and health. When tired, we think slower, have more difficulty concentrating, and are worse at remembering things. Sleep actually **repairs damaged** neurons.

Relax – Stress weakens the immune system and hinders learning and memory. Stress hormones can actually destroy neurons. So learn some relaxation techniques to use when you are in the middle of a stressful period in you life or study.

Party! – Socializing and staying close with friends and family is good for your health and brain function. People with close relationships have a stronger support network that helps them deal with problems in life and so the brain stays healthier.

Play Games – **Challenging** tasks can help keep your brain sharp. Some games are better than others, and a few, such as Lumosity, were developed specifically for building cognitive performance.

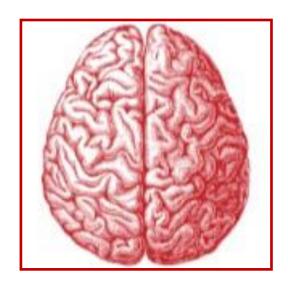
Learn New Things – Every new thing; thought or idea creates new connections between the neurons.

Love! – Positive feelings like love and affection increase some **vital** chemicals in the brain, which brighten up your life and make you live longer. Love is as **addictive** as drugs, because without love the humankind would die out.

Two halves make one!

The upper part of your brain is divided into two halves. In most people they have different tasks:

Left	Right
words	imagination
lists	colour
numbers	intuition
logic	creativity
analysis	place
details	whole picture
right hand	left hand



The more you use both sides of your brain, the more **effective** the brain is at everything.

Eight kinds of smart

Each of us has eight kinds of intelligence, some of them stronger, some weaker:

A *linguistic* person is good at languages; with sounds and words.

A logical person is good at mathematics; with numbers and patterns.

A spatial person sees the world clearly, understanding shapes and images of the mind.

A musical person hears music in his or her head and can create sounds in the mind's ear.

A **bodily**(-kinesthetic) person is good at controlling body movements and handling objects.

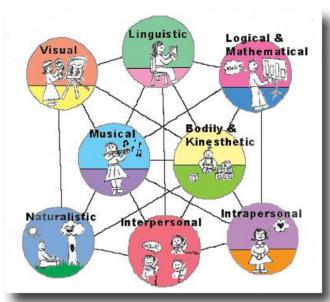
A *naturalistic* person is good at noticing patterns in and making connections to elements in nature.

An interpersonal person is socially smart and empathetic with other people.

An *intrapersonal* person has a high level of self-understanding and can follow his or her own personal **growth** very closely.

Don't just **settle** with one.

As you **develop** them all,
they will support each other.



How to lose it?

Sleep less – Teenagers need about nine hours' sleep **on** average. If you don't wake up without an alarm clock or get **drowsy** and start **yawning** during the day you haven't given your body enough sleep. This will cause memory loss, slower understanding, foolish decisions, difficulties in learning and a poor **immune** system.

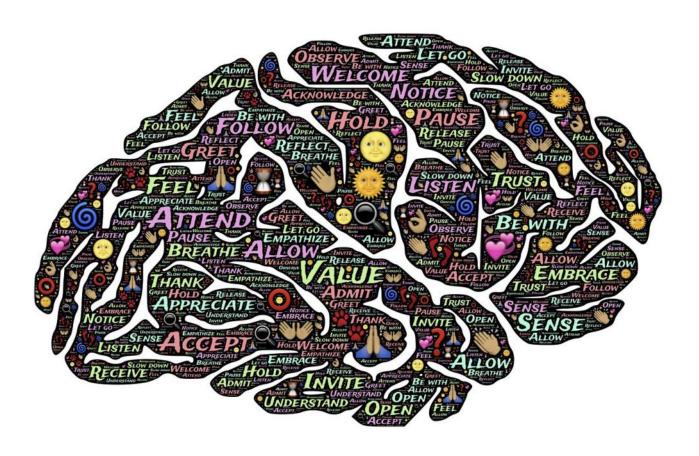
Smoke – Smoking **affects** your memory. It makes your memory **dependent on** the cigarettes. Smoking also **prevents** your body from getting enough oxygen and generally causes your **fitness** to **deteriorate**.

Stress – Stress causes your neurons to die. It also prevents your brain from getting oxygen. Long-term stress also damages your immune system, so you get all kinds of infections very easily. The weakest part of your body gives up first.

Drink alcohol – Alcohol prevents you from making good decisions, often **increases** aggress-iveness and drives you into doing things you will **regret** later. In time it will affect your memory and understanding even when **sober**. Teenagers' brains are damaged by alcohol quicker than adults' because the brain is still growing and changing until the age of 24.

Use Drugs – Cocaine and amphetamines very quickly make your brain look and function like an old person's brain. A cocaine user's brain actually **shrinks** at high speed. Ecstasy makes holes in the brain that cause the brain to lose many of its normal functions.

How not to lose it?



activate	aktivera
addictive	beroendeframkallande
affect	påverka
affection	kärlek
brain	hjärna
breathe	andas
cause	orsaka, framkalla
challenge	utmana
clever	klok
cognitive ability	uppfattnings förmåga
communicate	kommunicera
connection	förbindelse
contain	innehålla
creativity	skapande förmåga
damage	förstöra
dependent on	beroende på
destroy	förstöra
deteriorate	försämra
develop	utveckla
drowsy	sömnig
effective	effektiv
efficient	effektiv
empathetic	empatisk, har inlevelseförmåga
eventually	i längden
fit	spänstig, kry, frisk
fitness	kondition
function	fungera, verksamhet
genius	geni
growth	växande, här: utveckling
hinder	hindra
image	(mental) bild
imagination	fantasi
immune	immun, motståndskraft

increase	utöka
incredibly	otroligt
intuition	omedelbar uppfattning
magnetic	magnetisk
mind	tankar
on average	i genomsnitt
oxygen	syre
path	stig
patience	tålamod
pattern	mönster, modell
performance	prestation
physical	fysisk
plum	plommon
potential	möjligheter, resurser
prevent	hindra, förhindra
reduce	minska
regret	ångra
relaxation	vila
remain	kvarstå
repairs	reparera
settle	nöja sig
shape	form
shrink*, shrank, skrunk	krympa
sober	nykter
specific	vissa
support	stöd
survive	överleva
teens	tonåren
weaken	försämra
weigh	väga
weight	vikt
vital	livsviktig
yawn	gäspa

