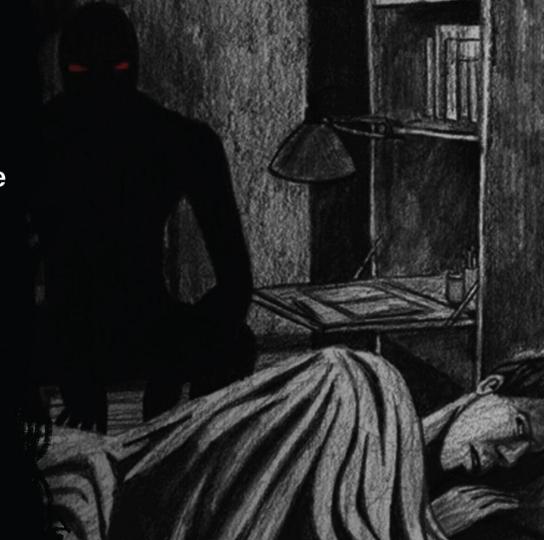
Communication Design / Project III

Communication in Healthcare Demystifying Sleep Paralysis

Keywords: Sleep paralysis, Hypnagogic Hallucinations, Perceptual Process, Awareness

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IDC School of Design IIT Bombay





How does sleep paralysis feel like?

A little girl in the corner of my room staring at me. Then, without notice, she shrieks and runs up and starts choking me.

A large dark figure, kind of a human silhouette, emerging from the foot of my bed and staring down at me.



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Something banging and scraping on my bedroom door. I keep it locked at night because I have had ones where it opens by itself.

No, the door isn't open when I wake up. It only opens in the dream.



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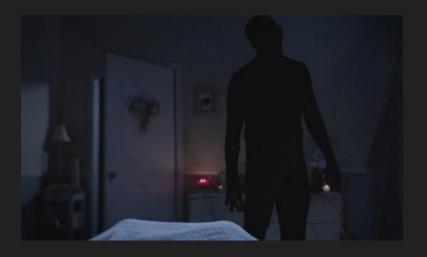
No, the door isn't open when I wake up. It only opens in the dream.

My bedroom door opening by itself followed by dark figures coming into my room.



How does sleep paralysis feel?

The worst thing is when you try to fight or call for help. Your voice doesn't work and your body will not respond. You just feel helpless.



- 1. People (family and friends)
- 2. Internet
- 3. Sleep specialist

1. Peoples (family and friends)

7.6 % of general population experiences sleep paralysis.

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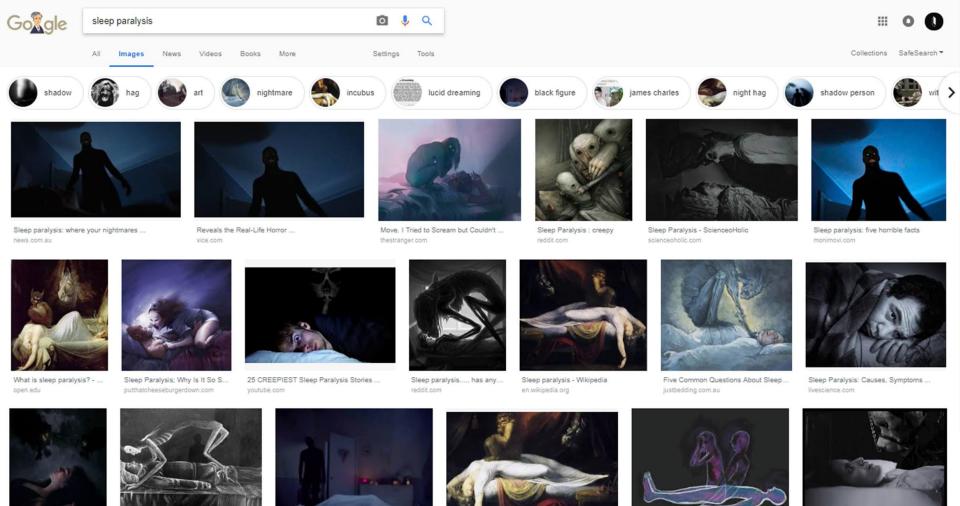
Most of the people never experience sleep paralysis or they forget the one or two instances they experienced. When people came to know these experiences they reckon them as supernatural, paranormal or superstitions.



<u>The Nightmare</u> by <u>Henry Fuseli</u> (1781) is thought to be a depiction of sleep paralysis perceived as a demonic visitation.

2. Internet

- -Information on internet is too mixed up and reflects views that contradict past claims and assumptions. Hence, the data is too mixed up
- -More horrifying experiences
- -Need to research a lot with further confirmation



flickr.com

















Jovita Nkechinyere Browne

Sleep paralysis is pure evil, I have seen so much in my years of experience, I had told a child hood friend who advised me on what to do to see the face of the evil, I did and I was standing face to face with this man.

Like · Reply · 6 5 · 39w



Kelly Liwanga

Am really curious Jovita, tell me what you did to see this man.

Like · Reply · 1 · 32w



Jovita Nkechinyere Browne

In my teen years I had a friend that seemed to know too much about all these and she had told me to slap the air just immediately the stuff let you loose, don't wait a second, just slap the air immediately you feel free, like you are slapping some one on the face and you will see the face

Like · Reply · 1 · 28w



Jani Ramone

Jovita Nkechinyere Browne I once har sleep paralys(several Times before) but this time i just felt the urge to do something about it i never saw be shadow in my previous Times but this time i manage to fly up from bed do a 90 degree in the air get a AUG steyr automatic face the shadow and shoot it very cool experience always face the thing and tell it to fuck off thats very satisfying

Like · Reply · 1 · 26w





Jani Ramone wow

Like · Reply · 2w



Sam Link

Has anyone felt pain or been hurt by the presense or shadow guy.





🌉 Mine was wolf-like and he just stared at me in my closet with yellow eyes. He was definitely evil but it somehow felt like he didn't want to hurt me

Like · Reply · 1 · 29w



Daniel John Rice

Ashley Larson

Ashley Larson I've had a very similar dream but it was a bald man with large eyes that glowed red like big stoplights and was walking around looking through all the windows of my apartment. It was really creepy but somehow I knew he could not get in.

Like - Reply - 1 - 29w



Jovita Nkechinyere Browne



Danny Ky

For the past few weeks I have seen the shadow man in my sleep, it is actually scarier then I ever imagined.

Tonight I was asleep when suddenly I felt the significant pressure on my chest (this was the sign of the shadow man approaching) I couldnt move. I couldnt scream. I was stuck in my paralized dream. He dragged me out of bed and on the floor. He picked me up so I was floating and pinned me back on the bed. I tried to pray but it was useless. I couldnt move. He held me there. I looked up at him, I could see his form. I could tell where he was darker than the rest of the room. He held me down, as if it was physical and I tried to move. I tried so damn hard, but he was so much stronger than me. This went over a few more minutes. He then whispered something in my ear. then I was pinned alone for a few moments and I woke up.

That was the scariest thing I have ever experienced. Awake I do not recall what he whispered to me, but I do remember his strength. Well I prayed now. I need to go back to sleep. I have to go to work in a few hours, I hope I dont see shadow man again tonight.. wish me.

Like - Reply - 2 · 29w



Mike N Stacie Coffee

What he say?

Like Reply 18w



Danny Ky

Mike N Stacie Coffee Idk. 6 weeks and nothing. All I had to do was ask for jesus's help and he sent the angels & it hasn't happened to me since. Amen

Like · Reply · 6 1 · 17w



Sam Link

Has anyone felt pain or been hurt by the presense or shadow guy.

Like · Reply · 6 2 · 34w



Ashley Larson

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Daniel John Rice



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3. Sleep specialist

Improving sleep habits

- creating a relaxing sleep environment
- cutting down on alcohol, smoking and other stimulants
- eating a healthy diet, at regular meal times
- keeping a regular exercise routine
- adequate exposure to natural light
- avoiding TV, video games and computers before bed

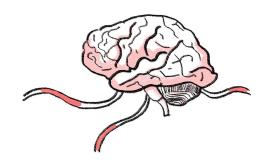
How does it occurs?

Usually occurs when we about to sleep or about to wake up. When we about to do so, brain sends signal to muscles to paralyse themselves.

So that we don't act out in dream in our dream and hurt ourselves.

When we about to wake up, it sends another signal to muscles to get back to normal.

But sometimes, brain and muscles loose coordination, so the brain wakes up but the muscles remain paralysed, when this happens, we experience super realistic and terrifying illusionary hallucinations which makes us feels we are going to die.

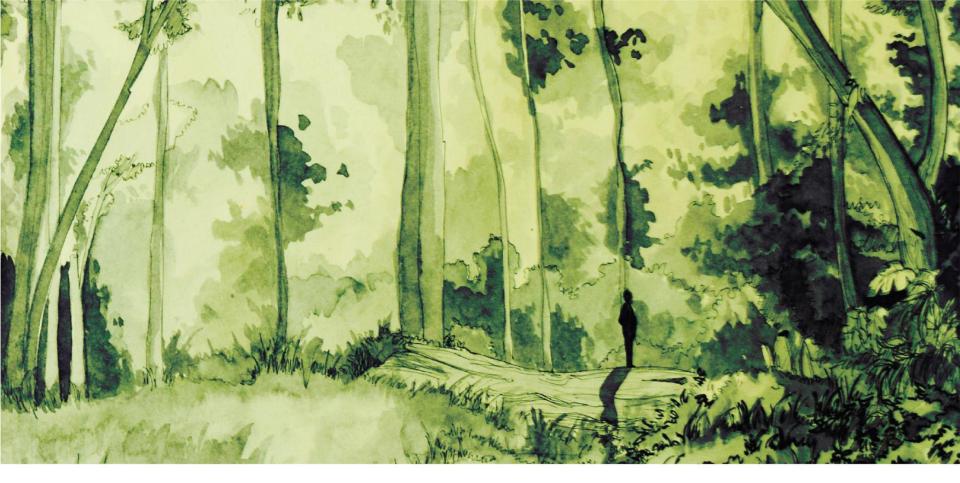




Why are they malevolent experiences in sleep paralysis most of the times?

Hypnagogic Hallucinations

When a person wakes up and find themselves paralyzed, it activates their quote threat-activated vigilance system in the quotes; this is a protective mechanism the body uses to differentiate between dangerous situations and determine the fear response is appropriate



A noise in woods activates vigilance system would cause You to be high alert until you determined if the Source of the noise was the treat or not.

The process is associated with part of the brain called the Amygdala, which is responsible for extreme emotions like fear;

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Amaygdala - Sleep Paralysis

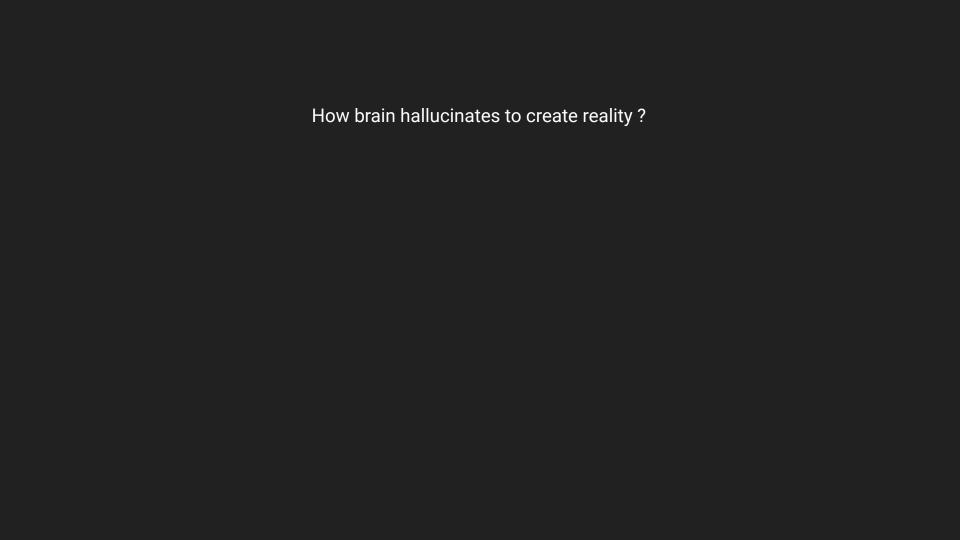
called the Amygdala, which is responsible for extreme emotions like fear;

Amaygdala - Sleep Paralysis

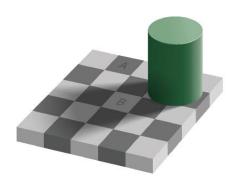
Hallucinations.

The process is associated with part of the brain

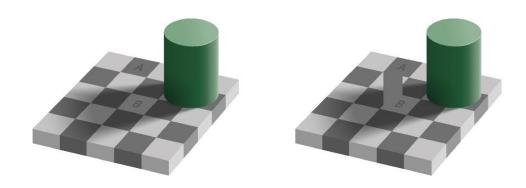
So, when it can't find any real threat, it creates one that felt presence which would then cause other



Experiment 1: Visuals

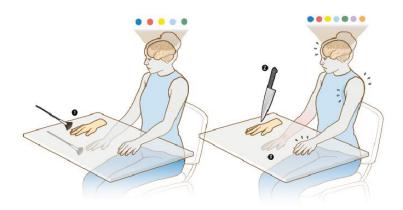


Experiment 1: Visuals



Brain can use new predictions to change, What we consciously experience.

Experiment 2: Tactile



Sensory information coming into the brain hasn't changed at all.

Only brain's best guess of the cause of sensory information and that changes we consciously hear (or experience).

Hallucination : Uncontrolled Perception **Perception :** Controlled Hallucination

Background study

Nicolas Bruno's work

By creating self-portraiture that reenacts the dreams, he was able to share what he was going through each night and externalize something deeply personal through a positive outlet.







Raphael Lezinsky's work

Collages of his sleep paralysis episodes, to express the expression with digital media, painting, sketching and drawing on watercolour with textures and splotches with meticulous details.







Avinash's work

Creates scapes from nightmares and episodes from sleep paralysis to depict his experiences











Approach 1

Logging Wristband

- -With sensor, a paralysis attack can be detected
- -the agenda can be rescheduled if the patient would have to sleep fallen sleep.
- -Notify for upcoming scheduled

Can help people to plan sleep schedules as it is quite a big problem for people with sleep paralysis.

Community App

- -Encourage users to fill their sleeping logs.
- -Community would support each other to share the experience
- -Chatrooms to discuss experiences.
- -A narcolepsy social media kind of platform.





- -Both solutions need lots of customization and making user device dependent.
- -Apps is adding more screen time in users schedule.

I WOKE UP IN THE MIDDLE OF THE NIGHT AND QUICKLY CHECKED INSTAGRAM, TWITTER, FACEBOOK, GMAIL, MY WEATHER APP, AND MY TEXTS, AND NOW I'M A TAD TOO STIMULATED TO CLOSE MY EYES AGAIN.



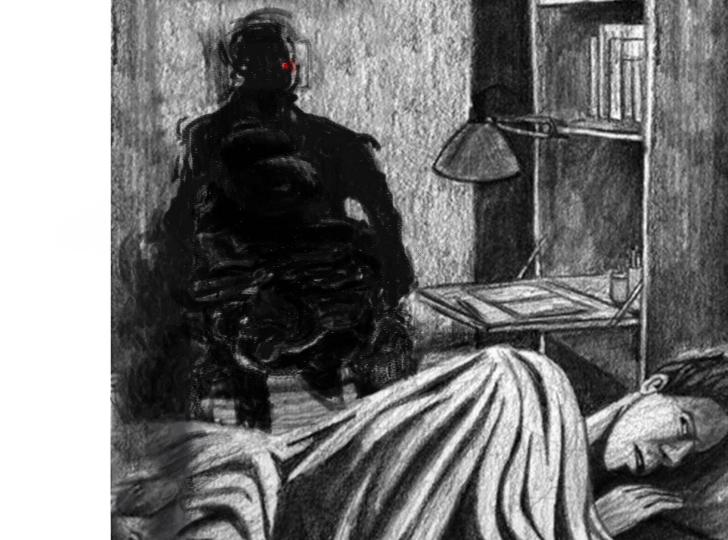
Approach 2

Perception as tool for better experience

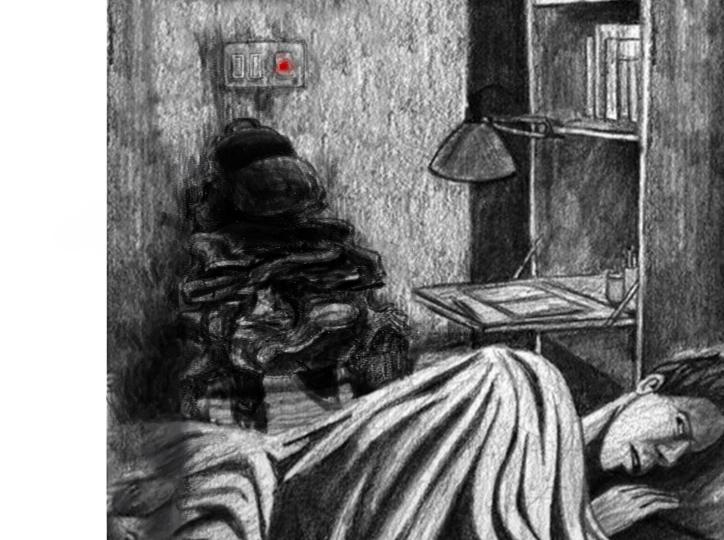
- -Ability to interpret the surrounding environment using light in the environment; brain's ability to make sense of what the eyes see.
- -Goal of sensing of information can be achieved.
- -Use of past experiences both real and genetically acquired
- -Process them into better experiences to cope with sleep paralysis.
- **Step 1:** Raw information gathered from the external world.
- **Step 2:** Templates of experience and compared and matched by executive functions in working memory is what experienced.
- **Step 3:** Consciousness cognitive and emotional awareness, we think of as seeing and experiencing.

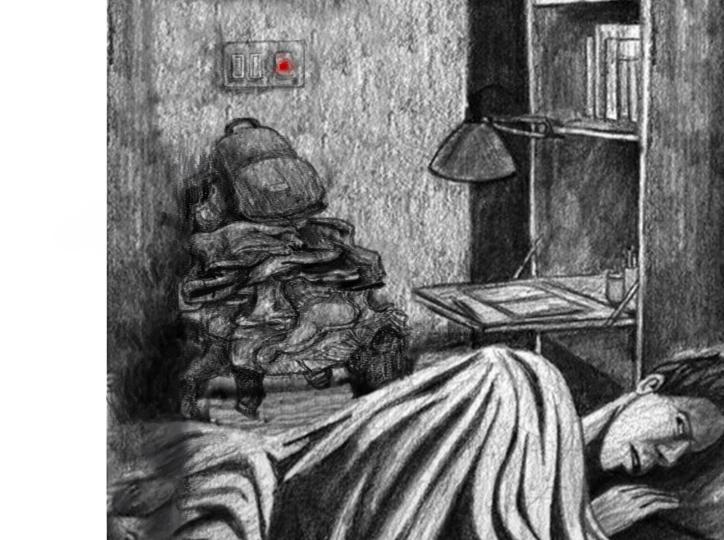












Inferences

- -Incoming information from various sources; books and web
- -Collecting bits and pieces from sources into subconscious
- -No window of expressing and understand own emotions
- -No neutral thoughts

Final design

- -Journal design (portrait)
- -Designed to fill voids, completing tasks with your experiences.
- -In hand exercise

Style and Inspiration

Carissa Potter's work

- -Self--help pieces of stuff
- -Simple yet meaningful work
- -Connect with wider range of people

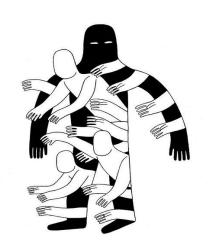




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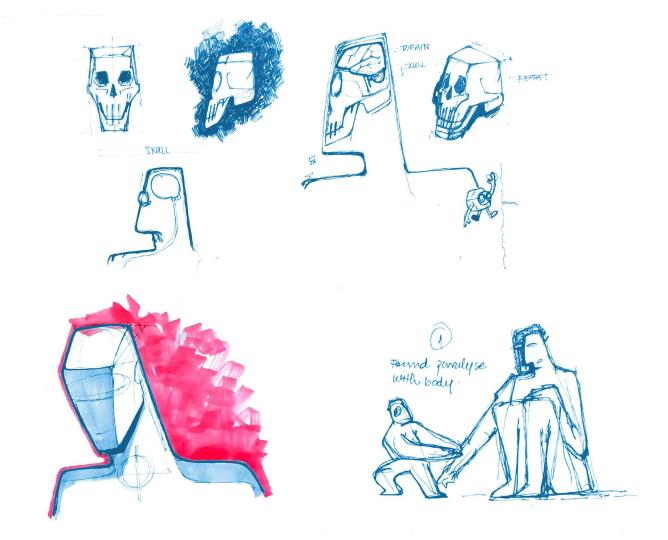
Jack Teagle's work

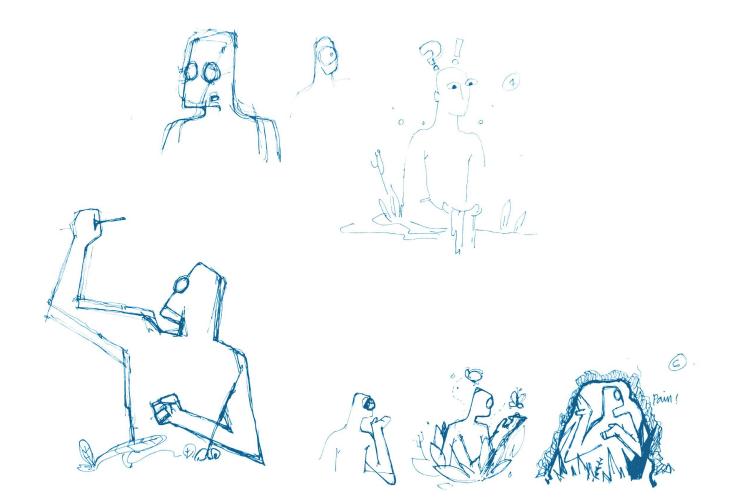
-Illustrations with minimal yet profound meaning in his linework -strong emotion and expressions even without colors.

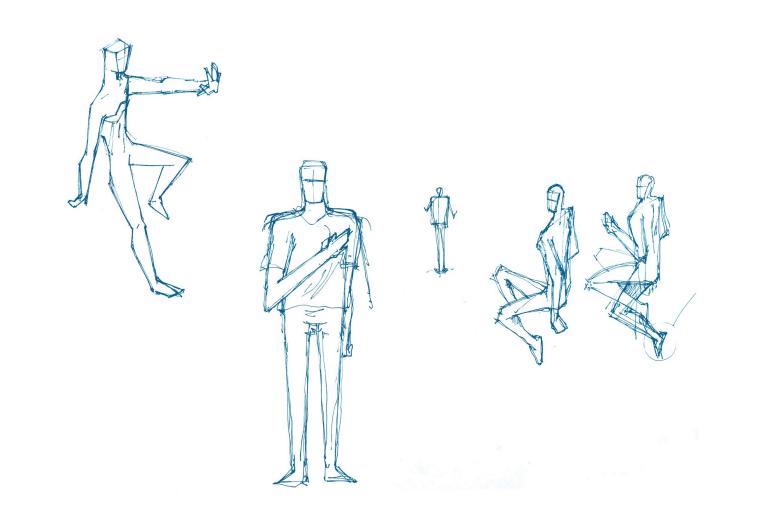




Identity









Introduced to the Sleep paralysis and establishing the idea and to perceive sleep paralysis and hallucination as neurological disorders.

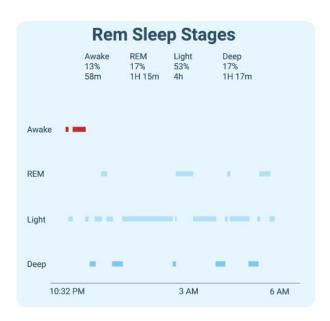
What is Sleep Paralysis? A sleep disorder wherein the person though is awake, is

A sleep disorder wherein the person though is awake, is temporarily unable to speak or move. Scientifically. it's a sign that your body and mind are unable to transition through different stages of sleep.



How does it occurs?

Usually occurs when we about to sleep or about to wake up. When we about to do so, brain sends signal to muscles to paralyse themselves. So that we don't act out in dream in our dream and hurt ourselves.

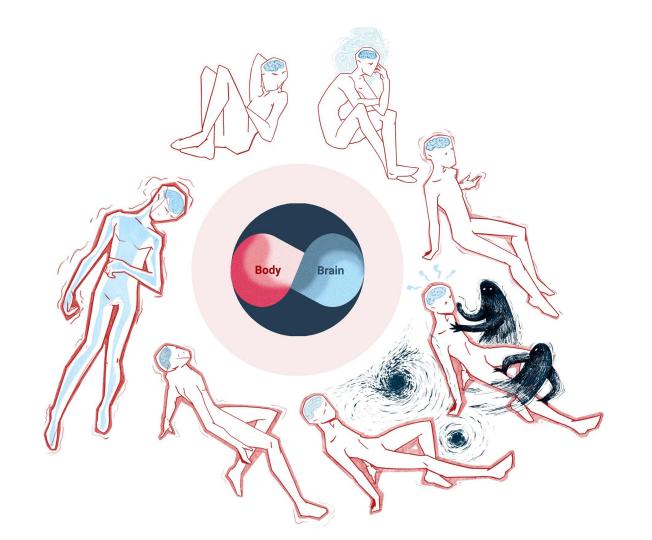




While you are falling asleep and is referred to as hypnagogic or predormital sleep paralysis



When you are waking up, called as hypnopompic or postdormital sleep paralysis.





Causes of sleep paralysis



Panic Disorder



Sleep Deprivation



Bipolar Disorder



Sleep Apnea



Erratic Sleep Schedules



Medications



Substance Abuse



Post traumatic Stress Disorder

Symptoms of sleep Paralysis

Sleep paralsysis is characterized by sensory, auditory and visual hallucination such as:



Intruder: A sense of malvolent presence in the room, footstep sounds, shadows, and ratting doorknobs.



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Vestibular Motor: out of body experince, floating or hovering, flying, rapid spinning or falling from heights.

To generate the idea of visual perception and the consciousness to change the brain's best guesswork and experiences.









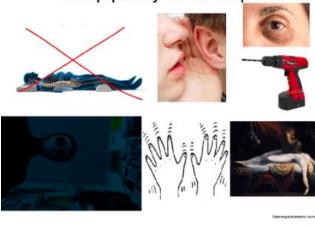
Changing perspective of Fear by putting humour into it.

Humour addresses the same issues like Fear, not to dismiss them, but to strengthen the ability to confront them, and then laugh them away from the door.

When you first had sleep paralysis vs now



sleep paralysis starterpack



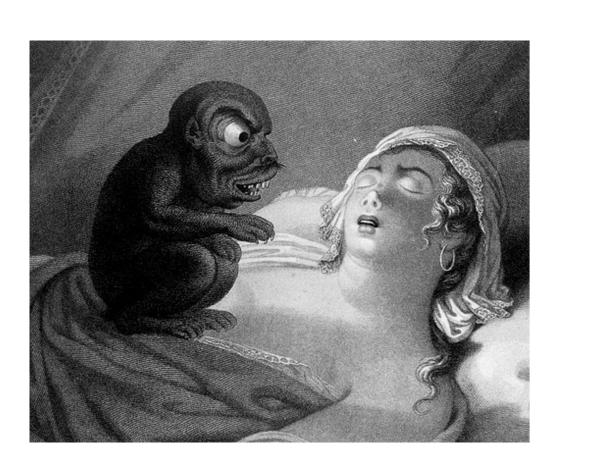
Sleep paralysis starterpack

my view when i look up and see the demon sitting on my chest during sleep paralysis









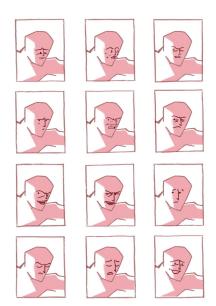


- -Using images and words to reform reality
- -Dividing exercises from completing pictures from bits and pieces and creating new from scratch.
- -With small references to complete visual imageries in the head.

"Reality is not what it seems to be, but its imagination what creates reality"

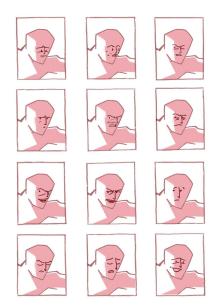
by Ferdinando Buscema the great magic experience designer

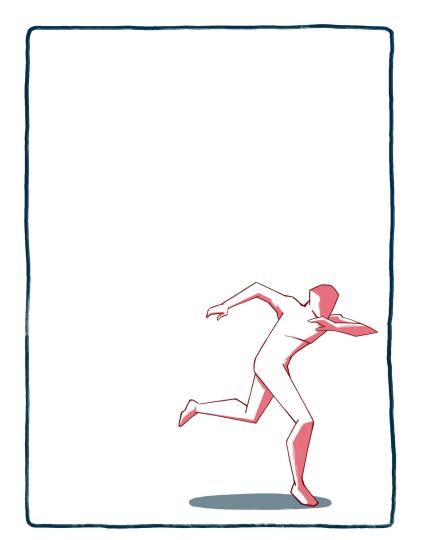
How's Everything Going?



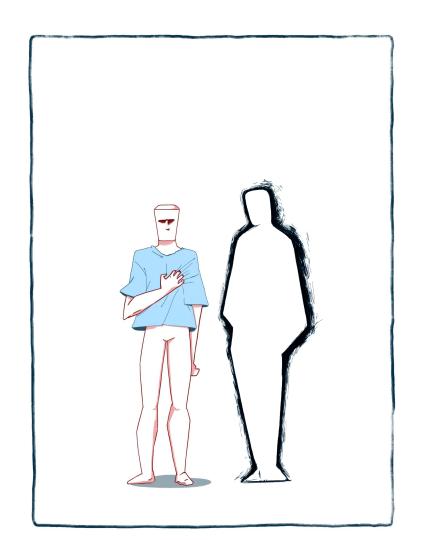


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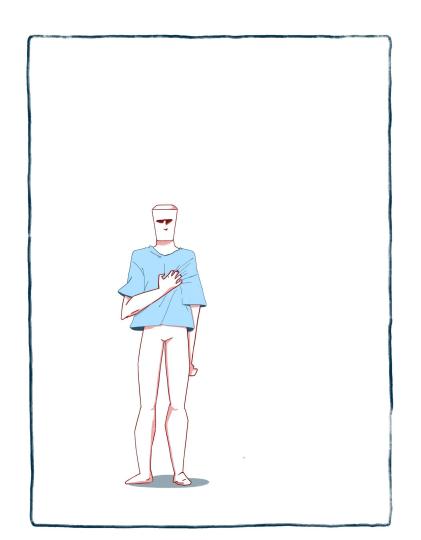




Your Shadow Friend



Your Shadow Friend



Look who is here!

Presence

Finding myself unable to move Adrenaline pulsing, The world around me is mute I can't lift a finger I can't say a word The dark figure in the corner of my room...

Is it you?



Look who is here!

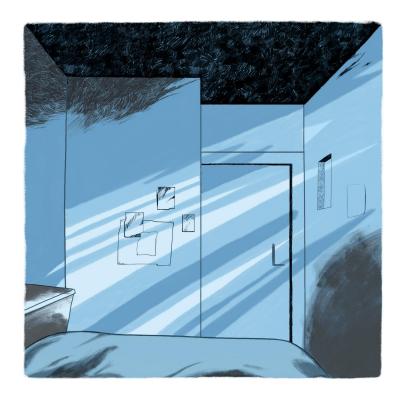
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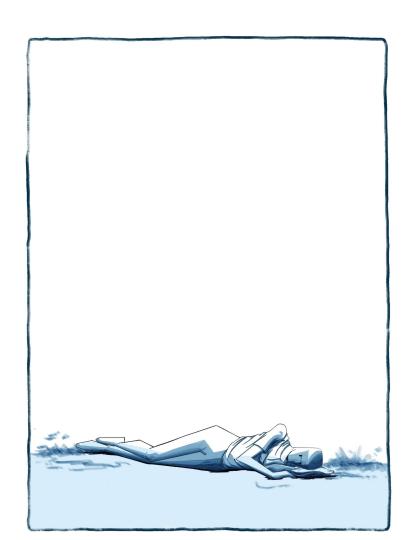


No one is looking at you!

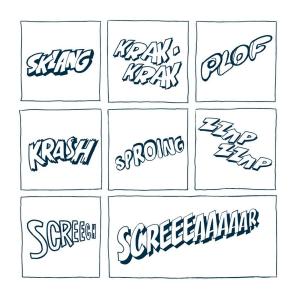
Stare

The body is heavy, numb and eyes are closed. brain welcomes the darkness and begins to whisper Among the nothingness. a gaze finds you from that darkness

Suddenly, Dreams delusions into Nightmares and body gets stiff you become voiceless and alone In the dark: still as stone



Scraaaatch...





Words

what kind of dream you like to see?	
Use Keywords to initiate a pawagraph.	
# Sleep # Shick # Hoat # } Add your two Write here	

Scapes and Shadows

My Dear Shadow

I am not good at telling if you are real Do me the favour of existing Please, press your face in reflections or behind the shadows in the room's corner I would love to call you Shadowman or housemate or even house... Is that you, who nudged me last night Whistle-buddy? I don't know, maybe I am overthinking. Did I say it out loud, this bit about, the fear of the dark and unknown. buried itself deep inside or it is just the darker shadows of black



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Feedbacks

As someone who fairly frequently experiences sleep paralysis, I think the idea of overcoming the fear associated with the paralysis by having a humorous take on it, interesting.

The book being more of a journal/ activity book makes personalised it to each and is more than just information and I believe would help anyone experiencing sleep paralysis to surpass it.

-Harshita

The tangible interaction approach for sleep paralysis and logging personal experiences are good parts. it will be beneficial to understand the concept of sleep paralysis without inclined perspectives and giving space to put your own thought is a helpful approach.

-Avinash



Thoughts grows like branches of tree...



When they move towards negativity, it gets worse with every branch...



But when they flutter, they can show you the most beautiful world