

# Information Retrieval

Assignment 1

Team 3:

Shayan Amani

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## 1.

### The query is: power nap benefits

Top 10 results found: 162

85bcaa2516682b1738c121bfd1d7bd60c9d2e274 The power nap is thought to maximize the benefits of sleep versus time. It is used to supplement normal sleep, especially when a sleeper has accumulated a Sleep%20debt. (19.08126)

05ee98915108d6fea8b95d4aefd51acadf85bb3a For several years, scientists have been investigating the benefits of napping, both the power nap and much longer sleep durations as long as 1–2 hours. Performance across a wide range of cognitive processes has been tested. Studies demonstrate that naps are as good as a night of sleep for some types of memory tasks. (15.886143)

76cae6cb9749c647ae52077d6fd535f3ccdb41a2 Some companies have nap rooms to allow employees to take a power nap. This may be in a form of a nap room with a recliner, or chairs specially designed for power napping installed in a designated area. Companies with nap rooms claim that employees are happier and become more productive at work. (15.857731)

9fe0ea9205e708269ec2cf437aa23360c5805a8b A Flinders%20University study of individuals restricted to only five hours of sleep per night found a 10-minute nap was overall the most recuperative nap duration of various nap lengths they examined (lengths of 0 min, 5 min, 10 min, 20 min, and 30 minutes): the 5-minute nap produced few benefits in comparison with the no-nap control; the 10-minute nap produced immediate improvements in all outcome measures (including sleep latency, subjective sleepiness, fatigue, vigor, and cognitive performance), with some of these benefits maintained for as long as 155 minutes; the 20-minute nap was associated with improvements emerging 35 minutes after napping and lasting up to 125 minutes after napping; and the 30-minute nap produced a period of impaired alertness and performance immediately after napping, indicative of sleep inertia, followed by improvements lasting up to 155 minutes after the nap. (15.45351)

1b470a36adea668e666acefd8b82ba1336620315 Various durations are recommended for power naps, which are very short compared to regular sleep. The short duration of a power nap is designed to prevent nappers from sleeping so long that they enter a normal sleep cycle without being able to complete it. Going beyond Sleep%20stages I and II but failing to complete a full sleep cycle can result in a phenomenon known as Sleep%20inertia, where one feels groggy, disoriented, and even more sleepy than before beginning the nap. Brief naps (10–15 minutes) can improve alertness directly after awakening without the detrimental effects of sleep inertia associated with longer naps. (11.437822)

0bb27470730936e60db6de54836ef6700c58e53f Similar nap rooms and stations also exist in Higher %20education institutions. Many colleges and universities provide napping furnitures such as Camp %20bed and giant Bean%20bags in libraries for students to take a nap after a long study. At least one university has a nap room set up in a Gym. Some Medical%20schools also set up nap rooms at the Teaching%20hospitals. The nap rooms may include sleeping pods or cots, White%20noise %20machines, and antimicrobial pillows. (10.257116)

bf2d3d9fab4e234bcf4ce753f9e99a8c90e9cea9 People who regularly take power naps may develop a good idea of what duration works best for them, as well as what tools, environment, position, and associated factors help induce the best results. Some may prefer to take power naps regularly even if

their schedules allow a full night's sleep. Mitsuo Hayashi and Tadao Hori have demonstrated that a nap improves mental performance even after a full night's sleep. New sleep sensors and sleep timers available on several mobile devices allow advocates of power naps to sleep for exactly as long as they would like to. (9.996853)

7a496a372da2b3cfbae495d7b1aa0378f7275911 A brief period of sleep of around 15 to 20 minutes, preceded by consuming a Caffeine drink or another stimulant, may combat daytime drowsiness more effectively than napping or drinking coffee alone.<ref name=twYun/><ref name=twPreventionMag/><ref name=twAUDoC/> A stimulant nap (or coffee nap, caffeine nap, occasionally napuccino)<ref name=twYun/> was discovered by British researchers, Horne and Reyner, to be more effective than regular naps in improving post-nap alertness and cognitive functioning.<ref name=twNYTimes/><ref name=twSmithsonian/> In a driving simulator and a series of studies, Horne and Reyner investigated the effects of cold air, radio, a break with no nap, a nap, caffeine pill vs. placebo and a short nap preceded by caffeine on mildly sleep-deprived subjects. A nap with caffeine was by far the most effective in reducing driving "incidents" and subjective sleepiness as it helps the body get rid of sleep-inducing chemical compounds known as Adenosine.<ref name=twOprahMag/> Caffeine in coffee takes up to half an hour to have an alerting effect, hence "a short (<15min) nap will not be compromised if it is taken immediately after the coffee." One account suggested that it was like a "double shot of energy" from the stimulating boost from caffeine plus better alertness from napping.<ref name=twYun/> This procedure has been studied on sleep-deprived humans given the task of driving a motor vehicle afterwards,<ref name=twPsychophysiology/> although it has not been studied on elderly populations.<ref name=twSleepJournal/> (8.678147)

857c9393cc9f1438f3dc5a08f512226abc414e87 Power naps of fewer than 30 minutes—even those as brief as 6 and 10 minutes—restore wakefulness and promote performance and learning. A 30-minute nap may also be able to reverse the hormonal impact of a night of poor sleep or reverse the damage of sleep deprivation. A University%20of%20D%C3%BCsseldorf study found superior memory recall once a person had reached 6 minutes of sleep, suggesting that the onset of sleep may initiate active memory processes of consolidation which—once triggered—remains effective even if sleep is terminated. (7.854293)

8e962ffac6102cfd7b5f7d8878df622401b510b2 The National%20Institute%20of%20Mental%20Health funded a team of doctors, led by Alan Hobson, MD, Robert%20Stickgold, PhD, and colleagues at Harvard%20University for a study which showed that a midday snooze reverses Information %20overload. Reporting in "Nature%20Neuroscience", Sara%20Mednick, PhD, Stickgold and colleagues also demonstrated that "burnout" irritation, frustration and poorer performance on a mental task can set in as a day of training wears on. This study also proved that, in some cases, napping could even boost performance to an individual's top levels. The NIMH team wrote "The bottom line is: we should stop feeling guilty about taking that 'power nap' at work." (7.854293)

## **The query is: whale vocalization production of sound**

Top 10 results found: 200

a52b2be2b8eae17301fa6a8669e35da4188da7d6 Most baleen whales make sounds at about 15–20 Hertz. However, a team of Marine%20biology, led by Mary Ann Daher of the Woods%20Hole %20Oceanographic%20Institution, reported in "New%20Scientist" in December 2004 that they had been tracking a whale in the North Pacific for 12 years that was "singing" at 52 Hz. The scientists are unable to explain this dramatic difference from the norm; however, they believe the whale is baleen and unlikely to be a new species,<ref name=NewSci/> suggesting that currently known species may have a wider vocal range than previously thought. There is disagreement in the scientific community regarding the uniqueness of the whale's vocalization and whether it is a member of a hybrid whale such as the well documented Blue and Fin Whale hybrids. (15.363393)

52d1827627d2fdb8271eed24f71a424769595951 Researchers use Hydrophones (often adapted from their original military use in tracking submarines) to ascertain the exact location of the origin of whale noises. Their methods also allow them to detect how far through an ocean a sound travels. Research by Dr. Christopher Clark of Cornell%20University conducted using military data showed that whale noises travel for thousands of kilometres. As well as providing information about song production, the data allows researchers to follow the migratory path of whales throughout the "singing" (mating) season. An important finding is that whales, in a process called the Lombard%20effect, adjust their song to compensate for background Noise%20pollution. Moreover, there is evidence that blue whales stop producing foraging D calls once a mid-frequency sonar is activated, even though the sonar frequency range (1–8 kHz) far exceeds their sound production range (25–100 Hz). (14.769673)

67c751c1e13b722a4f787bc7bc7c62d97ac10b5a The multiple sounds odontocetes make are produced by passing air through a structure in the head called the "phonic lips". This structure functions like the human nasal cavity. As the air passes through this narrow passage, the phonic lip membranes are sucked together, causing the surrounding tissue to vibrate. These vibrations can, as with the vibrations in the human larynx, be consciously controlled with great sensitivity. The vibrations pass through the tissue of the head to the Melon%20(whale), which shapes and directs the sound into a beam of sound useful in echolocation. Every toothed whale except the Sperm%20whale has two sets of phonic lips and is thus capable of making two sounds independently. Once the air has passed the phonic lips it enters the Vestibular%20system. From there, the air may be recycled back into the lower part of the nasal complex, ready to be used for sound creation again, or passed out through the blowhole. (12.329488)

fbff039e5c107c9f8be00da48add3995428773d7 Humpback whales may also make stand-alone sounds that do not form part of a song, particularly during courtship rituals. Finally, humpbacks make a third class of sound called the feeding call. This is a long sound (5 to 10 s duration) of near constant frequency. Humpbacks generally feed cooperatively by gathering in groups, swimming underneath shoals of fish and all lunging up vertically through the fish and out of the water together. Prior to these lunges, whales make their feeding call. The exact purpose of the call is not known, but research suggests that fish know what it means. When the sound was played back to them, a group of herring responded to the sound by moving away from the call, even though no whale was present. (11.039737)

9b42469aa542187892242273f2c33df0c20c032c Cetacean sound production differs markedly from this mechanism. The precise mechanism differs in the two major suborders of cetaceans: the "Odontoceti" (Toothed%20whales—including dolphins) and the "Mysticeti" (Baleen%20whales—including the largest whales, such as the Blue%20whale). (10.408132)

a3c550c198a78e23bbee44b25db74e7b743b573e Baleen%20whales (formally called mysticetes) do not have phonic lip structure. Instead, they have a larynx that appears to play a role in sound production, but it lacks vocal cords, and scientists remain uncertain as to the exact mechanism. The process, however, cannot be completely analogous to humans, because whales do not have to exhale in order to produce sound. It is likely that they recycle air around the body for this purpose. Cranial sinuses may also be used to create the sounds, but again researchers are currently unclear how. (9.704657)

711eb45bef2339ddc2cd090e60899c756feb493d Two groups of whales, the humpback whale and the subspecies of blue whale found in the Indian%20Ocean, are known to produce a series of repetitious sounds at varying frequencies known as whale song. Marine biologist Philip Clapham describes the song as "probably the most complex in the animal kingdom." (9.377652)

33f7ccf51ab0c242135ce906c6a26328a17d9308 While the complex sounds of the humpback whale (and some blue whales) are believed to be primarily used in Sexual%20selection, the simpler sounds of other whales have a year-round use. While toothed whales are capable of using echolocation to detect the size and nature of objects, this capability has never been demonstrated in baleen whales. Further, unlike some fish such as Sharks, a whale's sense of smell is not highly developed. Thus, given the poor visibility of aquatic environments and that sound travels so well in water, sounds audible to

humans may play a role in navigation. For instance, the depth of water or the existence of a large obstruction ahead may be detected by loud noises made by baleen whales. (8.7485485)  
b65a420c1a78384af055f18113ba50bd55bf1497 Some scientists have proposed that humpback whale songs may serve an Animal%20echolocation purpose, but this has been subject to disagreement. (7.946294)  
dff5217246fccccb5c8acef5e258cc452a0a3eca9 The frequency of baleen whale sounds ranges from 10 Hertz to 31 kHz. A list of typical levels is shown in the table below. (7.946294)

## The query is: pokemon puzzle league

Top 10 results found: 23

89fd2d8a4a355c3005f41bfd1c457939a5283d3d "Pokémon Puzzle League" received generally positive reviews from the media, scoring 81/100 on Metacritic, and 82.65% on GameRankings. "Electronic %20Gaming%20Monthly" gave the game a 9.2/10, noting its similarity to "Tetris%20Attack", and calling it "highly addictive". IGN rated the game 8.9/10, stating "I'm totally addicted and thrilled with Pokémon Puzzle League." (16.054722)

693d081d719512da4a321be6e4b7ebe839ce062e "Pokémon Puzzle League" features the same gameplay as in "Panel%20de%20Pon". The objective is to clear blocks from the playfield by arranging them in horizontal or vertical lines of three or more blocks. A continuous stream of new blocks pushes up from the bottom of the playfield, causing the entire playfield to rise continuously. If the blocks reach the top of the playfield, the player loses. The player can temporarily stop the progression of blocks by scoring combos and chains, and in two-player battles, these actions also cause garbage blocks to stack on top of the opponent's playfield. (11.435774)

71e8c617e76b38819bb165988ff3d224d5d700e8 Unlike its predecessors, "Pokémon Puzzle League" features a 3D mode in addition to the traditional 2D mode. In this mode, gameplay takes place on a cylinder with an effective width of 18 blocks, compared to the six-block width of the flat 2D field. It also features the original block design from "Panel de Pon" and "Tetris Attack", as well as a Pokémon-oriented design (which is selected by default). (11.435774)

3f28912fb9c6b2fa4377414a348275e59b7d90f5 There is currently a women's league playing six-(wo)man football. It is the Independent Women's Football League. (9.0868025)

122d144c144f20998d6c8a48c91a0af7bc81ac04 Coors Field was the first major league park with an underground heating system. (7.930367)

b9f231bb52e1c8b87fd20c9a059ae01bf792a97e Gracia Hillman served as EAC Chair in 2005 and is the former executive director of the League%20of%20Women%20Voters of the United States. (7.448779)

97924bab16d053e96ee70690b893b32559be8fa3 Although the number of home runs hit per season at Coors Field is decreasing, Coors Field still remains the most hitter friendly ballpark in the Major Leagues by a wide margin. From 2012–2015 the Colorado Rockies led the league in runs scored in home games, while being last in the league for runs scored in away games. This demonstrates the extreme benefit that Coors Field's low air density provides to hitters. (6.943529)

b8d505b181ac086b69cea67a65ba517491bd34e0 Coors Field twice broke the major league record for home runs hit in a ballpark in one season. The previous record, 248, had been set at the Los %20Angeles%20Angels%20of%20Anaheim' original home of Wrigley%20Field%20(Los%20Angeles) in Los Angeles in 1961, its only year for major league ball. In Coors Field's first year, the home run total fell just 7 short of that mark, despite losing 9 games from the home schedule (or 1/9 of the normal 81) due to the strike that had continued from 1994. The next season, 1996, with a full schedule finally, 271 home runs were hit at Coors Field. In 1999, the current major league record was set at 303. The annual home run figure dropped noticeably in 2002, and has dropped below 200 starting in 2005. (6.7515554)

9185cc3ac1e0f86cee02f96ac8d4506515a5ebd7 The characters in "Pokémon Puzzle League" either come from the anime and were once exclusive to it, like Ash%20Ketchum, Tracey%20Sketchit, and Gary%20Oak or have appeared in previous "Pokémon" games but appear in the game as they do in the anime like Misty%20(Pok%C3%A9mon), Brock%20(Pok%C3%A9mon), and Giovanni%20(Pok%C3%A9mon). There are 16 playable characters in the game. In the 1P Stadium, only Ash is playable and Gary's Pokémon, a Nidoran%E2%99%80, Growlithe, and Krabby, will fully be evolved into Nidoqueen, Arcanine, and Kingler, respectively, in Hard mode, Very Hard mode, and Super Hard mode when challenging him the second time. These fully evolved Pokémon are not playable with Gary. The final opponent of each difficulty setting varies. Giovanni is the last opponent of Easy mode, Bruno %20(Pok%C3%A9mon) is the last opponent of Normal mode, and Gary with his evolved Pokémon is the last opponent of Hard mode. In Very Hard mode and Super Hard mode, Mewtwo is the final opponent, and beating him gives the player the true ending of the story in 1P Stadium. (6.7312326) 3ff3fd3f70aceb7acacf53b4aaaf5ae9f6b3509c The term "ordinary effort" considers all circumstances, including weather, lighting, positioning of the defense, and the abilities of the players involved in the play. A fly ball catchable with ordinary effort in Major League Baseball might not be in a junior high school game, due to the ability of the players involved. (5.896983)

**3.** It uses practical scoring function (vector space model), which is the default scoring function in Lucene.

**4.**

PerformSearch (custom scoring function):

## **The query is: power nap benefits**

Top 10 results found: 162

05ee98915108d6fea8b95d4aefd51acadf85bb3a For several years, scientists have been investigating the benefits of napping, both the power nap and much longer sleep durations as long as 1–2 hours. Performance across a wide range of cognitive processes has been tested. Studies demonstrate that naps are as good as a night of sleep for some types of memory tasks. (235.0)

85bcaa2516682b1738c121bfd1d7bd60c9d2e274 The power nap is thought to maximize the benefits of sleep versus time. It is used to supplement normal sleep, especially when a sleeper has accumulated a Sleep%20debt. (235.0)

08c4fc40bc6272ea21d6aa0e3d029351dfb76d8e Subsequent to the Tribunal award and approval to the project in 1987 by the Ministry of Water Resources with due clearances from the ministry, implementation of the Sardar Sarovar Project (SSP) was taken up as the terminal project on the main stem of the Narmada, in Gujarat, to use the share of allocated water to Gujarat and Rajasthan. The concrete gravity dam of 1210 m length and 163 m height above foundation with storage capacity of 7700000 acre.ft and reservoir length of 214 km extending into Gujarat, Maharashtra and Madhya Pradesh is designed to provide an annual irrigation of 18000 km<sup>2</sup> in Gujarat (covering 3360 villages of 62 talukas in 14 districts), 4260 km<sup>2</sup> in Rajasthan and hydel power generation of 1450 MW. As a result of construction of the dam, over 48,269 families (7000 families were assessed in 1979 by the Tribunal) will be affected, as per the latest figures of NCA, in the three States spread over 244 villages (4 fully and 240 partially, 39369 in MP in 192 villages, 4163 in Maharashtra in 33 villages and 4737 in Gujarat in 19 villages); the total area affected being 375.33 km<sup>2</sup>. The submergence area is broadly divided into

two areas. First is fully tribal, which covers the initial reach of about 100 or so villages, which are almost 100% tribal and hilly. They include all the 33 villages of Maharashtra (in Nadurbhar District), all 19 of Gujarat and many of the Madhya Pradesh. The second part of the submergence area is the mixed population area on the Nimad plains, with a very well developed economy that is well connected to the mainstream. Considered as the largest water resources project of India in terms of benefits, some of the special features of the project are the following: (199.0)

1736352e43dc2acea8b2e4ec73f07ab403538c06 The Tribunal's final order determined the utilisable quantum of Narmada waters to be 27000000 acre.ft at 75% dependability and allocated it to the four states, as in Table below, including share of power benefits. It also stipulated the share of water when utilisable flow was in excess of 28000000 acre.ft. The Navagam dam height was fixed at full reservoir level (FRL) 460 ft with a maximum water level of EL feet. The Full Supply Level of the Navagam canal was fixed at 300 ft. The costsharing formula among the states and the consequent requirement of release of regulated releases from the Narmada Sagar dam by MP was also spelt out. The resettlement and rehabilitation package was also clearly specified with all costs to be borne by Gujarat for all resettlement and rehabilitation work of people affected in the three states and also for relocating any ancient or historic monuments, places of worship or idols likely to suffer submergence. (199.0)

1fe0b2d49032c3a296ff68d63a389ffa8a728345 The overall plan for development ultimately conceived involves 30 major dams including Sardar Sarovar (21 irrigation, 5 hydropower, and 4 multipurpose), some 135 medium dams, and over three minor dams in M.P along the main stem of the river and its 41 tributaries to utilise its allocated share of 18250000 acre.ft before 2025 (within 45 years of the NWDT award). In addition to power generation and irrigation within the basin, water was allocated for domestic and industrial water uses and for multipurpose transbasin diversions to Son%20River and Tons%20River basins in eastern MP, drought prone areas of Saurashtra%20(region), Kutch, northern mainland in Gujarat, and southern Rajasthan. Irrigation benefits to the extent of about 40000 km<sup>2</sup> to 50000 km<sup>2</sup> (of drought prone and scarcity areas) and power generation of 2,600 MW were also envisaged. Thus, the Narmada River development is envisaged as a multi state program for development of hydropower and irrigation dams and their associated irrigation networks. In 1961, the original project envisaged irrigation of almost 2 e6acre in West India at a cost of \$100 million. By 2011, it had escalated to \$3 billion. (199.0)

2a6fbd513d07c84e1009c9b848414d59710fc990 Investigations for harnessing the Narmada waters started around the time of independence, when Central Waterways, Irrigation and Navigation Commission (CWINC) identified several storage schemes and in 1948 the Khosla Committee prioritised the proposals and named Tawa, Bargi, Punasa and Bharuch projects (the last three on the main stem of the river) for preparation of reports. The reports were ready by 1963. A parallel study of hydropower potential identified 16 sites with a potential of 1300 MW. While the project in Gujarat, the Baruch Weir project (for which Jawaharlal%20Nehru laid the foundation stone in 1961) went through a series of modifications and improvements with a reformed scheme at Navagam village to extend benefits up to the Rann%20of%20Kutch, following the bifurcation of the erstwhile Bombay%20state into Maharashtra and Gujarat states and Gujarat's intent to raise the height of the dam at Navagam to maximise storage benefits at the cost of submergence of potential hydropower sites in Maharashtra and Madhya Pradesh, there was a dispute between the states. It resulted in an impasse in the implementation of the agreed projects at Navagam in Gujarat, Punasa in Madhya Pradesh and Bargi Dam in Madhya Pradesh and power benefit sharing among the states; with Madhya Pradesh refusing to ratify the agreements. To break the logjam, a high level Committee was appointed by the Government %20of%20India (GOI) in September 1964. In 1965, the Committee prepared a Master Plan for the basin, which involved construction of 12 major projects in MP and the Navagam Dam in Gujarat. It provided priority to Irrigation over power; irrigation of 2630 km<sup>2</sup> in MP, 400 km<sup>2</sup> in Maharashtra, 460 km<sup>2</sup> in Gujarat and 4000 km<sup>2</sup> in Rajasthan. The storages it recommended in MP involved Bargi, Tawa and Narmadasagar (Punasa) while its proposed Navagam high dam would submerge the hydelpower

project sites of Jalasindhi (in Maharashtra) and Harinphal (MP) but without any more submergence than would be caused by the three dams if separately constructed. Gujarat endorsed the proposal, but Maharashtra was not willing to go by it. After intense parleys failed to resolve the problem, the GOI decided to set up the Narmada Water Disputes Tribunal (NWDT) in 1969 under the Interstate%20River %20Water%20Disputes%20Act 1956 to adjudicate on the dispute relating to sharing of water of the interstate Narmada and its valley. (199.0)

c411a13fc5f2d1f484bdaa0598c8e6224c8d95f8 The first high-volume product (> 5Mio actuators / year) is an automotive valve used to control low pressure Pneumatic bladders in a Car%20seat that adjust the contour of the lumbar support / bolsters. The overall benefits of SMA over traditionally-used solenoids in this application (lower noise/EMC/weight/form factor/power consumption) were the crucial factor in the decision to replace the old standard technology with SMA. (199.0)

1b470a36adea668e666acefd8b82ba1336620315 Various durations are recommended for power naps, which are very short compared to regular sleep. The short duration of a power nap is designed to prevent nappers from sleeping so long that they enter a normal sleep cycle without being able to complete it. Going beyond Sleep%20stages I and II but failing to complete a full sleep cycle can result in a phenomenon known as Sleep%20inertia, where one feels groggy, disoriented, and even more sleepy than before beginning the nap. Brief naps (10–15 minutes) can improve alertness directly after awakening without the detrimental effects of sleep inertia associated with longer naps. (185.0)

76cae6cb9749c647ae52077d6fd535f3ccdb41a2 Some companies have nap rooms to allow employees to take a power nap. This may be in a form of a nap room with a recliner, or chairs specially designed for power napping installed in a designated area. Companies with nap rooms claim that employees are happier and become more productive at work. (185.0)

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## **The query is: whale vocalization production of sound**

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52d1827627d2fdb8271eed24f71a424769595951 Researchers use Hydrophones (often adapted from their original military use in tracking submarines) to ascertain the exact location of the origin of whale noises. Their methods also allow them to detect how far through an ocean a sound travels. Research by Dr. Christopher Clark of Cornell%20University conducted using military data showed that whale noises travel for thousands of kilometres. As well as providing information about song production, the data allows researchers to follow the migratory path of whales throughout the "singing" (mating) season. An important finding is that whales, in a process called the Lombard%20effect, adjust their song to compensate for background Noise%20pollution. Moreover, there is evidence that blue whales stop producing foraging D calls once a mid-frequency sonar is activated, even though the sonar frequency range (1–8 kHz) far exceeds their sound production range (25–100 Hz). (302.0)

9b42469aa542187892242273f2c33df0c20c032c Cetacean sound production differs markedly from this mechanism. The precise mechanism differs in the two major suborders of cetaceans: the "Odontoceti" (Toothed%20whales—including dolphins) and the "Mysticeti" (Baleen%20whales—including the largest whales, such as the Blue%20whale). (277.0)

a3c550c198a78e23bbee44b25db74e7b743b573e Baleen%20whales (formally called mysticetes) do not have phonic lip structure. Instead, they have a larynx that appears to play a role in sound production,

but it lacks vocal cords, and scientists remain uncertain as to the exact mechanism. The process, however, cannot be completely analogous to humans, because whales do not have to exhale in order to produce sound. It is likely that they recycle air around the body for this purpose. Cranial sinuses may also be used to create the sounds, but again researchers are currently unclear how. (277.0)

20db2fc0a049fb6f22da017857957efcc3f584fa Prior to the introduction of human noise production, Clark says the noises may have travelled right from one side of an ocean to the other, agreeing with a thirty-year-old concept blaming large-scale shipping.<ref name=BBC/> His research indicates that ambient noise from boats is doubling with each decade.<ref name=BBC/> This has the effect of reducing the range at which whale noises can be heard. Environmentalists fear that such boat activity is putting undue stress on the animals as well as making it difficult to find a mate.<ref name=BBC/> (260.0)

01480263ab79bb1e1fe6c946bce8dce0979f24ea In 1956, Hubbert proposed that fossil fuel production in a given region over time would follow a roughly bell-shaped curve without giving a precise formula; he later used the Hubbert%20curve, the derivative of the Logistic%20curve, for estimating future production using past observed discoveries. (235.0)

039c052be6c846bd8587ab2c5e4639cb2abe80cc In 2009, Aaron Regent president of the Canadian gold giant Barrick Gold said that global output has been falling by roughly one million ounces a year since the start of the decade. The total global mine supply has dropped by 10pc as ore quality erodes, implying that the roaring bull market of the last eight years may have further to run. "There is a strong case to be made that we are already at 'peak gold'," he told The Daily Telegraph at the RBC's annual gold conference in London. "Production peaked around 2000 and it has been in decline ever since, and we forecast that decline to continue. It is increasingly difficult to find ore," he said. (235.0)

05054b11f063d07b8c8396698c22ecef85876d06 In the early stages of allergy, a type I hypersensitivity reaction against an allergen, encountered for the first time, causes a response in a type of immune cell called a T%20helper%20cell, which belongs to a subset of T%20cells that produce a Cytokine called Interleukin-4 (IL-4). These T2 cells interact with other Lymphocytes called B%20cells, whose role is the production of antibodies. Coupled with signals provided by IL-4, this interaction stimulates the B cell to begin production of a large amount of a particular type of antibody known as IgE. Secreted IgE circulates in the blood and binds to an IgE-specific receptor (a kind of Fc%20receptor called Fc%CE %B5RI) on the surface of other kinds of immune cells called Mast%20cells and Basophils, which are both involved in the acute inflammatory response. The IgE-coated cells, at this stage, are sensitized to the allergen. (235.0)

07fe02d5f35c2efd8f6d8cf2bb68394c5be72e7e The small shares of most of the peasants resulted in food shortages in the cities. Although grain had nearly returned to pre-war production levels, the large estates which had produced it for urban markets had been divided up. Not interested in acquiring money to purchase overpriced manufactured goods, the peasants chose to consume their produce rather than sell it. As a result, city dwellers only saw half the grain that had been available before the war. Before the revolution, peasants controlled only 2,100,000 km<sup>2</sup> divided into 16 million holdings, producing 50% of the food grown in Russia and consuming 60% of total food production. After the revolution, the peasants controlled 3,140,000 km<sup>2</sup> divided into 25 million holdings, producing 85% of the food, but consuming 80% of what they grew (meaning that they ate 68% of the total). (235.0)

084b1e33d2b33d1d61c987e1ef37d4add29bf4ab Two prototypes were ordered from Blackburn in 1935 and the first, United%20Kingdom%20military%20aircraft%20serials "K5178", first flew on 9 February 1937. Both prototypes were powered by the Bristol%20Mercury radial engine, but following trials when a production order for 190 aircraft was placed, they were to have Bristol%20Perseus engines. (235.0)

0cc07f224bc1c1e515d7286056f6b0687403a986 During the sugar boom period (1570–1670), the sugar plantations in Brazil presented hellish conditions, even including the personal brutality of some slave owners. There was high physical exertion on workers, especially during harvest season. In addition,



enslaved people were held to nearly-impossible daily production quotas while having to contend with lack of rest and food. Economically in sugar plantations, it was cheaper for owners of enslaved Africans to work them to death and get new replacement enslaved people. Conditions were so bad that even the Crown intervened on at least two occasions, forcing plantation owners to give their slaves sufficient food. (235.0)

## The query is: pokemon puzzle league

Top 10 results found: 23

693d081d719512da4a321be6e4b7ebe839ce062e "Pokémon Puzzle League" features the same gameplay as in "Panel%20de%20Pon". The objective is to clear blocks from the playfield by arranging them in horizontal or vertical lines of three or more blocks. A continuous stream of new blocks pushes up from the bottom of the playfield, causing the entire playfield to rise continuously. If the blocks reach the top of the playfield, the player loses. The player can temporarily stop the progression of blocks by scoring combos and chains, and in two-player battles, these actions also cause garbage blocks to stack on top of the opponent's playfield. (33.0)

71e8c617e76b38819bb165988ff3d224d5d700e8 Unlike its predecessors, "Pokémon Puzzle League" features a 3D mode in addition to the traditional 2D mode. In this mode, gameplay takes place on a cylinder with an effective width of 18 blocks, compared to the six-block width of the flat 2D field. It also features the original block design from "Panel de Pon" and "Tetris Attack", as well as a Pokémon-oriented design (which is selected by default). (33.0)

89fd2d8a4a355c3005f41bfd1c457939a5283d3d "Pokémon Puzzle League" received generally positive reviews from the media, scoring 81/100 on Metacritic, and 82.65% on GameRankings. "Electronic %20Gaming%20Monthly" gave the game a 9.2/10, noting its similarity to "Tetris%20Attack", and calling it "highly addictive". IGN rated the game 8.9/10, stating "I'm totally addicted and thrilled with Pokémon Puzzle League." (33.0)

9185cc3ac1e0f86cee02f96ac8d4506515a5ebd7 The characters in "Pokémon Puzzle League" either come from the anime and were once exclusive to it, like Ash%20Ketchum, Tracey%20Sketchit, and Gary%20Oak or have appeared in previous "Pokémon" games but appear in the game as they do in the anime like Misty%20(Pok%C3%A9mon), Brock%20(Pok%C3%A9mon), and Giovanni%20(Pok%C3%A9mon). There are 16 playable characters in the game. In the 1P Stadium, only Ash is playable and Gary's Pokémon, a Nidoran%E2%99%80, Growlithe, and Krabby, will fully be evolved into Nidoqueen, Arcanine, and Kingler, respectively, in Hard mode, Very Hard mode, and Super Hard mode when challenging him the second time. These fully evolved Pokémon are not playable with Gary. The final opponent of each difficulty setting varies. Giovanni is the last opponent of Easy mode, Bruno %20(Pok%C3%A9mon) is the last opponent of Normal mode, and Gary with his evolved Pokémon is the last opponent of Hard mode. In Very Hard mode and Super Hard mode, Mewtwo is the final opponent, and beating him gives the player the true ending of the story in 1P Stadium. (33.0)

003fd88273f0e9e38f27457b62e26456bb4fec40 The rulebook definition of Infield Fly says the umpire "shall immediately declare 'Infield Fly' for the benefit of the runners." However, sometimes they do not. As in the anecdote above from 2008, there may be doubt as to whether the ball was catchable by an infielder with ordinary effort. If not called, the infield fly rule is not in effect. The same Definition includes a comment that "The infield fly is in no sense to be considered an appeal play." This suggests that the batter cannot be ruled out retroactively to settle a debate that occurs after the play ends. However, in Major League Baseball, the umpires are likely to correct their mistake if it leads to an unfair double or triple play. Baserunners should learn what options they have, both on a routine fly out and a fly out declared an infield fly. Fielders should understand that declaration of the infield fly rule removes the force play and that a runner is only out if tagged. (28.0)

070c7726d308a4f50d374f303929a3dbe16de934 Coors Field was the first new stadium added in a six-year period in which Denver's sports venues were upgraded, along with Pepsi%20Center and Sports %20Authority%20Field%20at%20Mile%20High (originally sponsored by INVESCO). It was also the first baseball-only park in the National League since Dodger%20Stadium was built in 1962%20Major %20League%20Baseball%20season. (28.0)

0c82ed45759970f783b82cef8125658bc7d7a323 In 2012, frustrated by the Entertainment Software Association's support of the proposed anti-piracy SOPA and PROTECT%20IP%20Act legislation, Red %205%20Studios CEO Mark%20Kern founded the "League For Gamers" (LFG), which intends to advocate for gamers' interests, which may conflict with the industry protection measures the ESA advocates. \* In January 2012, the ESA dropped its support for both SOPA and PIPA despite initially lobbying congress for both bills. (28.0)

122d144c144f20998d6c8a48c91a0af7bc81ac04 Coors Field was the first major league park with an underground heating system. (28.0)

1513e4ccccf389f00cf99bcbe47bcb5dbfe9d5999 As of 2013, there are no longer any leagues (professional, semi-pro or amateur) that play the game past the high school level. The last one, the San %20Antonio,%20Texas based Texas%20Sixman%20Football%20League (TSFL), converted to Eight-man%20football after the 2012 season. The Central Florida-based Southeastern Christian Association of Sixman Football (SCASF) ceased operations in the late 2000s, and the Pennsylvania 6-Man Football League also converted to eight-man around the same time. (28.0)

26004601394be1f06a25f94cc28bba07d6ffa160 Stadium designers speculated early on that Coors Field would give up a lot of home runs. At 5200 ft above sea level, it is by far the highest park in the majors (Chase%20Field in Phoenix,%20Arizona is next at 1100 ft), and designers knew that the low air density at such a high Elevation would result in balls traveling farther than in other parks. To compensate, the outfield fences were placed at an unusually far distance from home plate, thus creating the largest outfield in Major League Baseball today, according to Business Insider. In spite of the pushed-back fences, for many years Coors Field not only gave up the most home runs in baseball, but due to the resultant large field area, the most Double%20(baseball) and Triple%20(baseball) as well. (28.0)