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Picture this. You're at work and your team has a big problem to solve. Everyone sits down together in a room and starts to brainstorm. One person comes up with a solution, but it's immediately shot down by another coworker. The next person comes up with a solution, and that's immediately shot down, too. It doesn't take long for the whole team to feel angry, frustrated, and exhausted. You'll never come up with a solution if everything is immediately torn apart! How can you make this situation more productive? The first step is to learn about different types of thinking. By understanding the difference between convergent and divergent thinking, you can more effectively plan out your brainstorming session and come to the best solution without frustration. Convergent and divergent thinking are relatively new terms in the world of psychology. They were first introduced to the world in 1956 by an American psychologist named J.P. Guilford. These two cognitive approaches, when used appropriately, can be used to solve just about any problem that you face. Let's start by talking about divergent thinking. When you think about "brainstorming," you are thinking about divergent thinking. This type of thinking requires you to expand your mind and find innovative solutions. The possibilities are endless. Divergent thinking allows you to see products in materials in new and different ways. Mind maps are the best way to put the results of divergent thinking on paper. Mind maps contain ideas that branch off from each other in different directions. There doesn't have to be a lot of logic used when you are in "divergent thinking" mode. Remember, you are expanding what is possible, not limiting it. Now, let's go back to the first example. There was divergent thinking happening - each person was coming up with an "out of the box" idea. But they were quickly getting shot down. The person that was critiquing their argument was in "convergent thinking" mode. Convergent thinking isn't bad or unproductive. It's necessary! This process is more analytical and "realistic." It uses logic to narrow down ideas. This part of the thinking process requires looking for fallacies and potential problems. By narrowing down ideas that would not possibly work, you can find one or two ideas that will work without a hitch. Let's say you're planning an event, and trying to figure out where to have the event. By putting on your "divergent thinking cap," you start to brainstorm. How can you hold the event at Disney World? Or at the new hotel that is opening down the street? What about a big outdoor party with tents? All of these venues could attract potential guests and make the event really stand out. Now, these are a lot of great ideas! But, if you approach this same problem with your "convergent thinking cap," Disney World? Way out of budget, and most of the guests won't want to travel that far. The new hotel down the street? That's closer to the budget and guests can easily travel there. A big outdoor party with tents? This is an option too, but only if the cost for lights, heating, and the tents actually did fit in the budget. Would you need a permit to hold the party outside? Would you have to worry about noise complaints? As you can see, both of these processes are necessary to come to a solution. You can't just set your heart on Disney World without considering practical factors, like budget or location. But when you do come up with an "out of the box" solution that does fit into your constraints, you've got a great solution on your hands. Convergent and divergent thinking require two different parts of the brain. While convergent thinking relies more on logic, divergent thinking relies more on creativity. Switching back and forth between the two may not seem like multitasking, but it is a form of multitasking. And multitasking is not as effective as you may think. In the meeting mentioned at the beginning of this article, your team was constantly switching back and forth between convergent and divergent thinking. Their brain had to switch back and forth, too. No wonder the group became worn out so fast! Harvard instructors like Anne Manning suggest another approach to convergent and divergent thinking. Rather than doing them in the same meeting, try "batching" your divergent and convergent thinking tasks. Take an hour of the meeting for your team simply to brainstorm ideas. No critiques, no logic, no convergent thinking. Just keep expanding the ideas of where you should hold the event, for a solid block of time. Give your team a break. This break could be an overnight break - many people have their best creative ideas when they are sleeping, showering, or thinking about other things. Tell your team to write down any more creative ideas that they might have, and bring them to you before the next meeting. Then, hold a meeting that is focused solely on convergent thinking. Think about the budget. Location. The number of people that you expect to attend the event. You'll be able to toss some ideas off your list pretty quickly. That's okay. Cross out items on your list quickly means that you're coming to a solution quickly. And, that's what you want your team to do. Now it's time to focus on other elements of the event. Using inspiration from your previous brainstorm, you may truly make your event the greatest it can be, or solve any problem efficiently. You may decide to make the event Disney-themed, for example, to have a fun event without shelling out the costs of actually going to Florida. The next time you're faced with a problem, try this batching technique. You might find yourself coming up with a great solution without frustrations! Don't have two days to come up with an idea? Split your team into two groups and let the debate begin! Well, sort of. Here's how this brainstorming session works. Give two teams a set amount of time (maybe 30-60 minutes) to brainstorm all ideas without any sort of dissent or questioning. Write them all down on the left side of a piece of paper. At the end of the time period, switch the sheets of paper between the two teams. (You may find overlap. That's good!) Set another time period for the groups to engage in divergent thinking. Instruct them to eliminate most of the ideas, leaving a handful for the first group to choose from. At the end of the second time period, switch the papers back to the original groups. If both groups still have not come to a consensus about the idea for moving forward, instruct each group to choose one of their remaining ideas to bring to the table. Once that is chosen, both groups will present that idea and the decision will be put to a vote amongst both groups. If you have a strong team that respects each other's processes, you may want to split your team up by their strengths and allow some to focus on convergent thinking or divergent thinking. Some team members naturally lean toward one or the other. Allowing people to show off their strengths can get your team the best answer in a process that everyone enjoys. How do you know which team members are more skilled at convergent vs. divergent thinking? There are a few ways to find out. Give your team members the opportunity to choose which type of thinking they would like to engage in (if they have to pick.) Get to know their preferred forms of brainstorming. You may find that your team naturally prefers one type of thinking over the other. You may also find that they like to brainstorm in different ways! Keep an open mind. If everyone is struggling their shoulders, go through a few trial runs. Split the teams randomly or bring everyone together to brainstorm ideas. Clearly split your time between convergent vs. divergent thinking. You will find that some team members have a hard time with convergent thinking, or others fail to speak up once the convergent thinking is over! As you notice these patterns, you will get a better sense of which "group" prefers one style over the other. Does your team all know their Myers Briggs type? Use this to indicate which members are likely more inclined to participate in convergent vs. divergent thinking. Team members best suited for convergent thinking include: These aren't the only team members who should participate in convergent thinking, but it gives you a good idea of who you might want in the room during this brainstorming portion. The best divergent thinkers include: ENFPENFPINTPESTJESFISJFIJSTJ This isn't set in stone. Trust your team members. If they prefer one style over the other, give them the chance to shine! Knowing the differences between convergent vs. divergent thinking can help you brainstorm. However, this approach may not be the best process for every team. Below are some other ways to brainstorm new ideas and find solutions to your most pressing problems. Get your team together and treat your problem like a conflict in a book. Create a "storyboard" that explains what led to the problem and the conflict at hand. (Post-its and erasable markers are great tools for this type of brainstorming!) This method gives your team a new way to look at your problem. SCAMPER offers a great set of prompts for a conversation about solutions. This is a great form of brainstorming for teams that are generally not convergent thinkers. SCAMPER stands for: Substitute: What would happen to the project if we swapped X for Y? Combine: What would happen to the project if we combined X and Y? Adapt: What would happen to the project if we adapted X to Y? Modify: What if we modified X to have more value on the project? Eliminate: What could we remove from the project to simplify it? Reverse: How could we reorganize this project to make it more effective? In 1985, psychologist Edward de Bono wrote "Six Thinking Hats" about a problem-solving exercise that involved roleplay. He described six different "hats" a person could wear as they brainstormed ideas: Logic: Facts/Optimism: Value and benefits: Devil's Advocate: Difficulties and dangers/Emotion: Feelings and intuitions/Creativity: Possibilities and new ideas/Management: Manager of other "hats" What would happen if you chose six people on your team to wear these "hats"? Would they think about a solution in a new way? Would they come up with great, new ideas? There is only one way to find out! There are so many great ways to brainstorm new ideas. Try out a few different methods, be aware of convergent vs. divergent thinking, and enjoy solving your team's biggest problems! Understanding the difference to empower your creativity. "The best way to have a good idea is to have lots of ideas." — Linus Pauling/Ever wondered about the secret sauce behind groundbreaking innovations? It often boils down to effective brainstorming. But before we dive into techniques, let's clear up a common confusion: the difference between divergent thinking and brainstorming.Divergent thinking is a cognitive skill that involves exploring multiple solutions to a problem. It's characterised by fluency, flexibility, originality, and elaboration of ideas. Brainstorming, on the other hand, is a specific technique that applies divergent thinking to generate ideas for a particular challenge.While group brainstorming is common, individual brainstorming can be equally powerful. Here are five techniques to supercharge your solo idea generation:1. Mind Mapping: Create visual diagrams of your ideas, branching out from a central concept.2. SCAMPER: Use this acronym (Substitute, Combine, Adapt, Modify, Put to another use, Eliminate, Reverse) to approach your problem from different angles.3. Six Thinking Hats: Adopt different perspectives (facts, emotions, caution, benefits, creativity, and perspective) to view your problem.4. Brainstorming Sessions: Invite others to contribute ideas, creating a supportive environment where all members have the best fit. Initially there were Brainstorm Sessions, from which the term was coined for Brainstorming or Brainstorming Sessions. 'Brainstorm' means using the brain to storm a creative problem and do so in commando fashion, with each stormer attacking the same objective." — Alex Faickney Osborn (1) Brainstorming is a process for generating creative ideas and solutions through intensive and freewheeling group discussion where participants are encouraged to think aloud and suggest as many ideas as possible, no matter how outlandish or bizarre. [2] Brainstorming is a group problem-solving technique that involves the spontaneous contribution of ideas from all members of the group; also : the mulling over of ideas by one or more individuals in an attempt to devise or find a solution to a problem. [3] Brainstorming is a technique used to solve problems and encourage creativity in which members of a group share their ideas about a subject. [4] Brainstorming is a group session that encourages people to put heads together, rack brains, share ideas, think, conjure up, dream up, create, invent, plan, ponder, conceptualize, conceive, analyze, and deliberate. [5] Brainstorming sessions can involve creative thinking, thought showers, exchange of views, excogitation, rumination, thinking caps, parley, reflection, contemplation, musing, and opining. [6] Brainstorming is when participants construct, construct, and cogitate to imagine breakthrough ideas. [7] Brainstorming is the creation for a flash of inspiration, brainchild moments, a hunch, sudden thoughts, and improvisation. [8] Brainstorming in groups is to theorize, ideate, and have an inkling, confab, debate, and form eureka moments. [9] Brainstorming is a way to generate ideas within a group setting. [10] Brainstorming is a project management tool that involves generating ideas for a project. [11] Brainstorming is a technique used to generate ideas for a project. 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compensation.[26] A good deal of research refutes Osborn's claim that group brainstorming could generate more ideas than individuals working alone.[13] For example, in a review of 22 studies of group brainstorming, Michael Diehl and Wolfgang Stroebe found that, overwhelmingly, groups brainstorming together produce fewer ideas than individuals working separately.[27] Several factors can contribute to a loss of effectiveness in group brainstorming. Production blocking. Because only one participant may give an idea at any one time, other participants might forget the idea they were going to contribute or not share it because they see it as no longer important or relevant.[28] Further, if we view brainstorming as a cognitive process in which "a participant generates ideas (generation process) and stores them in short-term memory (memorization process) and then eventually extracts some of them from its short-term memory to express them (output process)", then blocking is an even more critical challenge because it may also inhibit a person's train of thought in generating their own ideas and remembering them.[29] Group members can be given notepads to write their ideas on and the meeting can organize who will get to speak next. However, this brainstorming technique does not perform as well as individuals using the nominal group technique. Collaborative fixation: Exchanging ideas in a group may reduce the number of domains that a group explores for additional ideas. Members may also conform their ideas to those of other members, decreasing the novelty or variety of ideas, even though the overall number of ideas might not decrease.[30] Evaluation apprehension: Evaluation apprehension was determined to occur only in instances of personal evaluation. If the assumption of collective assessment were in place, real-time judgment of ideas, ostensibly an induction of evaluation apprehension, failed to induce significant variance.[13][31] Furthermore, when an authority figure watches the group members brainstorm the effectiveness lowers because members worry their ideas may be viewed negatively. Especially individuals with high social anxiety are particularly unproductive barnstormers and report feeling more nervous, anxious, and worried than group members who are less anxiety prone.[32] Free-writing: Individuals may feel that their ideas are less valuable when combined with the ideas of the group at large. Indeed, Diehl and Stroebe demonstrated that even when individuals worked alone, they produced fewer ideas if told that their output would be judged in a group with others than if told that their output would be judged individually. However, experimentation revealed free-writing as only a marginal contributor to productivity loss, and type of session (i.e., real vs. nominal group) contributed much more.[13] Personality characteristics: Extroverts have been shown to outperform introverts in computer mediated groups. Extroverts also generated more unique and diverse ideas than introverts when additional methods were used to stimulate idea generation, such as completing a small related task before brainstorming, or being given a list of the classic rules of brainstorming.[33] Social matching: One phenomenon of group brainstorming is that participants will tend to alter their rate of productivity to match others in the group. This can lead to participants generating fewer ideas in a group setting than they would individually because they will decrease their own contributions if they perceive themselves to be more productive than the group average. On the other hand, the same phenomenon can also increase an individual's rate of production to meet the group average.[27][34] Illusion of group productivity: Members tend to overestimate their group's productivity and so work less. Members of the group can only guess at the quantity and quality of their group's product and their personal contributions to the process but there is no standard to determine how well it is performing. A combination of processes explain why members are incorrectly overestimating productivity: Group member(s) may intuitively mistake others' ideas for their own, and so when they think about their own performance they cognitively claim a few ideas that others actually suggested[35] Group members compare themselves to others who generate relatively few ideas, reassuring them that they are one of the high performers[36] Group brainstorming may "feel" more successful because participants rarely experience failure in a communal process. When individuals are trying to think creatively alone, people repeatedly find that they are unable to come up with a new idea. In a group setting, people are less likely to experience this failure in their search for new ideas because others' ideas are being discussed.[37] Amygdala hijack 6-3-5 Brainwriting Affinity diagram Group concept mapping Lateral thinking Mass collaboration Nominal group technique Thinking outside the box What? Where? When? ^ Furnham, Alex (2000). "The Brainstorming Myth". *Business Strategy Review*. 11 (4): 21–18. doi:10.1111/1467-8616.00154. Retrieved 14 November 2023. ^ Osborn, Alex F. (2018-05-11). *Applied imagination: principles and procedures of creative thinking*. Scribner. OCLC 641122686 – via Open WorldCat. ^ a b Parker, Jeanette; Begnaud, Lucy (2004). *Developing Creative Leadership*. Portsmouth, NH: Teacher Ideas Press. p. 20. ISBN 978-1563086311. ^ Trott, Paul; Hartmann, Dap; van der Duin, Patrick; Scholten, Victor; Ort, Roland (2016). *Managing Technology Entrepreneurship and Innovation*. Oxon: Routledge. p. 63. 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