

I'm not a bot



[illegible]

the AFR. Animals and simultaneously the choice of taking a job with an internet company or a job with a software company. This is a reinforcement structure of three superimposed concurrent schedules of reinforcement. It can create the three classic conflict situations (approach-avoidance conflict, approach-avoidance conflict, and avoidance-avoidance conflict) as described by Kurt Lewin (1935) and can operate in the field of other Lewinian situations analyzed by his force field analysis. Other examples of the use of superimposed schedules of reinforcement as an analytical tool are its application to the contingencies of rent control (Brehner, 2003) and the problem of toxic waste dumping in the Los Angeles County storm drain system (Brehner, 2010). In operant conditioning, concurrent schedules of reinforcement are schedules of reinforcement that are simultaneously available to an animal subject or human participant, so that the subject or participant can respond on either schedule. For example, in a two-alternative forced choice task, a pigeon in a Skinner box is faced with two pecking keys; pecking responses can be made on either, and food reinforcement might follow a peck on either. The schedules of reinforcement arranged for pecks on the two keys can be different. They may be independent, or they may be linked so that behavior on one key affects the likelihood of reinforcement on the other. It is not necessary for responses on the two schedules to be physically distinct. In an alternate way of arranging concurrent schedules, introduced by Findley in 1958, both schedules are arranged on a single key or other response device, and the subject can respond on a second key to change between the schedules. In such a "Findley concurrent" procedure, a stimulus (e.g., the color of the main key) signals which schedule is in effect. Concurrent schedules often induce rapid alternation between the keys. To prevent this, a "changeover delay" is commonly introduced: each schedule is inactivated for a brief period after the subject switches to it. When both the concurrent schedules are variable intervals, a quantitative relationship known as the matching law is found between relative response rates in the two schedules and the relative reinforcement rates they deliver; this was first observed by R.J. Herrnstein in 1961. Matching law is a rule for instrumental behavior which states that the relative rate of responding on a particular response alternative equals the relative rate of reinforcement for that response (rate of behavior = rate of reinforcement). Animals and humans have a tendency to prefer choice in schedules.[24][Main article: Shaping (psychology)]Shaping is the reinforcement of successive approximations to a desired instrumental response. In training a rat to press a lever, for example, simply turning toward the lever is reinforced at first. Then, only turning and stepping toward it is reinforced. Eventually the rat will be reinforced for pressing the lever. The successful attainment of one behavior starts the shaping process for the next. As training progresses, the response becomes progressively more like the desired behavior, with each subsequent behavior becoming a closer approximation of the final behavior.[25]The intervention of shaping is used in many training situations, and also for individuals with autism as well as other developmental disabilities. When shaping is combined with other evidence-based practices such as Functional Communication Training (FCT),[26] it can yield positive outcomes for human behavior. Shaping typically uses continuous reinforcement, but the response can later be shifted to an intermittent reinforcement schedule. Shaping is also used for food refusal.[27] Food refusal is when an individual has a partial or total aversion to food items. This can be as minimal as being a picky eater to so severe that it can affect an individual's health. Shaping has been used to have a high success rate for food acceptance.[28][Main article: Chaining]Chaining involves linking discrete behaviors together in a series, such that the consequence of each behavior is both the reinforcement for the previous behavior, and the antecedent stimulus for the next behavior. There are many ways to teach chaining, such as forward chaining (starting from the first behavior in the chain), backward chaining (starting from the last behavior) and total task chaining (teaching each behavior in the chain simultaneously). People's morning routines are a typical chain, with a series of behaviors (e.g. showering, drying off, getting dressed) occurring in sequence as a well learned habit.Challenging behaviors seen in individuals with autism and other related disabilities have successfully managed and maintained in studies using a scheduled of chained reinforcements.[29] Functional communication training is an intervention that often uses chained schedules of reinforcement to effectively promote the appropriate and desired functional communication response.[30][This section needs expansion. You can help by adding to it. (February 2024)]There has been research on building a mathematical model of reinforcement. This model is known as MPR, which is short for mathematical principles of reinforcement. Peter Killeen has made key discoveries in the field with his research on pigeons.[31]Reinforce number of responses. This schedule typically generates rapid, persistent responding. Slot machines pay off on a variable ratio schedule, and they produce just this sort of persistent lever-pulling behavior in gamblers. Because the machines are programmed to pay out less money than they take in, the persistent slot-machine user invariably loses in the long run. Slots machines, and thus variable ratio reinforcement, have often been blamed as a factor underlying gambling addiction.[39][Main article: Praise]The concept of praise as a means of behavioral reinforcement in humans is rooted in B.F. Skinner's model of operant conditioning. Through this lens, praise has been viewed as a means of positive reinforcement, wherein an observed behavior is made more likely to occur by contingently praising said behavior.[40] Hundreds of studies have demonstrated the effectiveness of praise in promoting positive behaviors, notably in the study of teacher and parent use of praise on child in promoting improved behavior and academic performance.[41][42] but also in the study of work performance.[43] Praise has also been demonstrated to reinforce positive behaviors in non-praised adjacent individuals (such as a classmate of the praise recipient) through vicarious reinforcement.[44] Praise may be more or less effective in changing behavior depending on its form, content and delivery. In order for praise to effect positive behavior change, it must be contingent on the positive behavior (i.e., only administered after the targeted behavior is enacted), must specify the particulars of the behavior that is to be reinforced, and must be delivered sincerely and credibly.[45]Acknowledging the effect of praise as a positive reinforcement strategy, numerous behavioral and cognitive behavioral interventions have incorporated the use of praise in their protocols.[46][47] The strategic use of praise is recognized as an evidence-based practice in both classroom management[46] and parenting training interventions,[42] though praise is often subsumed in intervention research into a larger category of positive reinforcement, which includes strategies such as strategic attention and behavioral rewards.Main article: Traumatic bondingTraumatic bonding occurs as the result of ongoing cycles of abuse in which the intermittent reinforcement of reward and punishment creates powerful emotional bonds that are resistant to change.[48][49]The other source indicated that [50]"The necessary conditions for traumatic bonding are that one person must dominate the other and that the level of abuse chronically spikes and then subsides. The relationship is characterized by periods of permissive, compassionate, and even affectionate behavior from the dominant person, punctuated by intermittent episodes of intense abuse. To maintain the upper hand, the victimizer manipulates the behavior of the victim and limits the victim's options so as to perpetuate the power imbalance. Any threat to the balance of dominance and submission may be met with an escalating cycle of punishment ranging from seething intimidation to intensely violent outbursts. The victimizer also isolates the victim from other sources of support, which reduces the likelihood of detection and intervention, impairs the victim's ability to receive countervailing self-referent feedback, and strengthens the sense of unilateral dependency... The traumatic effects of these abusive relationships may include the impairment of the victim's capacity for accurate self-appraisal, leading to a sense of personal inadequacy and a subordinate sense of dependence upon the dominating person. Victims also may encounter a variety of unpleasant social and legal consequences of their emotional and behavioral affiliation with someone who perpetrated aggressive acts, even if they themselves were the recipients of the aggression.Main article: Compulsion loopMost video games are designed around some type of compulsion loop, adding a type of positive reinforcement through a variable rate schedule to keep the player playing the game, though this can also lead to video game addiction.[51][Main article: Loot boxes]As part of a trend in the monetization of video games in the 2010s, some games offered "loot boxes" as rewards or purchasable by real-world funds that offered a random selection of in-game items, distributed by rarity. The practice has been tied to the same methods that slot machines and other gambling device dole out rewards, as it follows the variable rate schedule. While the general perception that loot boxes are a form of gambling, the practice is only classified as such in a few countries as gambling and otherwise legal. However, methods to use those items as virtual currency for online gambling or trading for real-world money has created a skin gambling market that is under legal evaluation.[52]The standard definition of behavioral reinforcement has been criticized as circular, since it appears to argue that response strength is increased by reinforcement, and defines reinforcement as something that increases response strength (i.e., response strength is increased by things that increase response strength). However, the correct usage[53] of reinforcement is that something is a reinforcer because of its effect on behavior, and not the other way around. It becomes circular if one says that a particular stimulus strengthens behavior because it is a reinforcer, and does not explain why a stimulus is producing that effect on the behavior. Other definitions have been proposed, such as F.D. Sheffield's "consummatory behavior contingent on a response", but these are not broadly used in psychology.[54]Increasingly, understanding of the role reinforcers play is moving away from a "strengthening" effect to a "signalling" effect.[55] That is, the view that reinforcers increase responding because they signal the behaviors that are likely to result in reinforcement. While in most practical applications, the effect of any given reinforcer will be the same regardless of whether the reinforcer is signalling or strengthening, this approach helps to explain a number of behavioral phenomena including patterns of responding on intermittent reinforcement schedules (fixed interval scallops) and the differential outcomes effect.[56] Applied behavior analysisBehavioral cusDog trainingLearned industriousnessOverjustification effectPavlovian-instrumental transferPunishmentReinforcement sensitivity theoryReward systemToken economy^ Definition of reinforcement from the American Psychological Association Retrieved on January 30th, 2024 ^ a b Leaf, Justin B.; Chion, Joseph H.; Leaf, Ronald; McEachin, John; Liu, Nicholas; Russell, Noah; Unumb, Lorri; Shapiro, Sydney; Khosrowshahi, Dara (June 2022). "Concerns About ABA-Based Interventions: An Evaluation and Recommendations". *Journal of Autism and Developmental Disorders*. 52 (6): 28382853. doi:10.1007/s10803-021-05137-y. ISSN1573-3432. PMC9114057. PMID34132968. Punishment, from a behavior analytic perspective, describes any context in which a response is followed by an event (i.e., stimulus change) that results in a decrease in the probability of similar responses in similar situations... Absent from this definition are things like pain, fear, discomfort, and the like. Suppose a person parks their car taking up two spaces and a passerby comments, "That's inconsiderate." If the probability of taking up two spaces while parking subsequently decreases, we can reasonably presume that punishment occurred.^ Schultz W (July 2015). "Neuronal Reward and Decision Signals: From Theories to Data". *Physiological Reviews*. 95 (3): 853951. doi:10.1152/physrev.00023.2014. PMC4491543. PMID26109341. Rewards in operant conditioning are positive reinforcers.... Operant behavior gives a good definition for rewards. Anything that makes an individual come back for more is a positive reinforcer and therefore a reward. Although it provides a good definition, positive reinforcement is only one of several reward functions.... Rewards are attractive. They are motivating and make us exert an effort.... Rewards induce approach behavior, also called appetitive or preparatory behavior, and consummatory behavior.... Thus any stimulus, object, event, activity, or situation that has the potential to make us approach and consume it is by definition a reward.... Intrinsic rewards are activities that are pleasurable on their own and are undertaken for their own sake, without being the means for getting extrinsic rewards.... Intrinsic rewards are genuine rewards in their own right, as they induce learning, approach, and pleasure, like perfecting, playing, and enjoying the piano. Although they can serve to condition higher order rewards, they are not conditioned, higher order rewards, as attaining their reward properties does not require pairing with an unconditioned reward.^ Malenka RC, Nestler EJ, Hyman SE (2009). "Chapter 15: Reinforcement and Addictive Disorders". In Sydor A, Brown RY (eds.). *Molecular Neuropsycharmacology: A Foundation for Clinical Neuroscience* (2nded.). New York: McGraw-Hill Medical. pp.364375. ISBN9780071481274.^ Nestler EJ (December 2013). "Cellular basis of memory for addiction". *Dialogues in Clinical Neuroscience*. 15 (4): 431443. PMC3898681. PMID24459410. Despite the importance of numerous psychosocial factors, at its core, drug addiction involves a biological process: the ability of repeated exposure to a drug of abuse to induce changes in a vulnerable brain that drive the compulsive seeking and taking of drugs, and loss of control over drug use, that define a state of addiction... A large body of literature has demonstrated that such FoSB induction in D1-type (nucleus accumbens) neurons increases an animal's sensitivity to drug as well as natural rewards and promotes drug self-administration, presumably through a process of positive reinforcement... Another FosB target is cFos: as FosB accumulates with repeated drug exposure it represses c-Fos and contributes to the molecular switch whereby FosB is selectively induced in the chronic drug-treated state.41.... Moreover, there is increasing evidence that, despite a range of genetic risks for addiction across the population, exposure to sufficiently high doses of a drug for long periods of time can transform someone who has relatively lower genetic loading into an addict.^ Volkow ND, Koob GF, McLellan AT (January 2016). "Neurobiologic Advances from the Brain Disease Model of Addiction". *New England Journal of Medicine*. 374 (4): 363371. doi:10.1056/NEJMr1511480. PMC6135257. PMID26816013. Substance-use disorder: A diagnostic term in the fifth edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-5) referring to recurrent use of alcohol or other drugs that causes clinically and functionally significant impairment, such as health problems, disability, and failure to meet major responsibilities at work, school, or home. Depending on the level of severity, this disorder is classified as mild, moderate, or severe.Addiction: A term used to indicate the most severe, chronic stage of substance-use disorder, in which there is a substantial loss of self-control, as indicated by compulsive drug taking despite the desire to stop taking the drug. In the DSM-5, the term addiction is synonymous with the classification of severe substance-use disorder.^ Thorndike E (June 1898). "Some Experiments on Animal Intelligence". *Science*. 7 (181): 81824. Bibcode:1898Sci.....7.818T. doi:10.1126/science.7.181.818. PMID17769765.^ Skinner, B. F. 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ISBN978-1-4292-3719-2.^ Ghaemmaghami, Mahshid; Hanley, Gregory P.; Jessel, Joshua; Landa, Robin (14 May 2018). "Shaping complex functional communication responses". *Journal of Applied Behavior Analysis*. 51 (3): 502520. doi:10.1002/jaba.468. ISSN0021-8855. PMID29761485.^ Tarbox and Lanagan Bermudez, Jonathan and Taira (2017). *Treating Feeding Challenges in Autism*. San Diego: Academic Press. pp.16. ISBN978-0-12-813563-1.^ Turner, Virginia R., etal. (2020). "Response Shaping to Improve Food Acceptance for Children with Autism: Effects of Small and Large Food Sets". *Research in Developmental Disabilities*. 98: 103574. doi:10.1016/j.ridd.2020.103574. PMID31982827. S2CID210922007.^ "CORRIGENDUM to "Further Evaluations of Functional Communication Training and Chained Schedules of Reinforcement to Treat Multiple Functions of Challenging Behavior"". *Behavior Modification*. 46 (1): 254. 24 July 2020. doi:10.1177/0145445520945810. ISSN0145-4455. PMID32706269. S2CID241136859.^ Falcomata, Terry S.; Roane, Henry S.; Muehling, Colin S.; Stephenson, Kasey M.; Ing, Anna D. (9 February 2012). "Functional Communication Training and Chained Schedules of Reinforcement to Treat Challenging Behavior Maintained by Terminations of Activity Interruptions". *Behavior Modification*. 36 (5): 630649. doi:10.1177/0145445511433821. ISSN0145-4455. PMID22327267. S2CID29108702.^ Killeen PR (4 February 2010). "Mathematical principles of reinforcement". *Behavioral and Brain Sciences*. 17 (1): 105135. doi:10.1017/S0140525X00033628.^ a b c d Edwards S (2016). "Reinforcement principles for addiction medicine: from recreational drug use to psychiatric disorder". *Neuroscience for Addiction Medicine: From Prevention to Rehabilitation - Constructs and Drugs. Progress in Brain Research*. Vol.223. pp.6376. doi:10.1016/bs.pbr.2015.07.005. ISBN9780444635457. PMID6806771. Abused substances (ranging from alcohol to psychostimulants) are initially ingested at regular occasions according to their positive reinforcing properties. Importantly, repeated exposure to rewarding substances sets off a chain of secondary reinforcing events, whereby cues and contexts associated with drug use may themselves become reinforcing and thereby contribute to the continued use and possible abuse of the substance(s) of choice.... An important dimension of reinforcement highly relevant to the addiction process (and particularly relapse) is secondary reinforcement (Stewart, 1992). Secondary reinforcers (in many cases also considered conditioned reinforcers) likely drive the majority of reinforcement processes in humans. In the specific case of drug [addiction], cues and contexts that are intimately and repeatedly associated with drug use will often themselves become reinforcing... A fundamental piece of Robinson and Berridge's incentive-sensitization theory of addiction posits that the incentive value or attractive nature of such secondary reinforcement processes, in addition to the primary reinforcers themselves, may persist and even become sensitized over time in league with the development of drug addiction (Robinson and Berridge, 1993)....Negative reinforcement is a special condition associated with a strengthening of behavioral responses that terminate some ongoing (presumably aversive) stimulus. In this case we can define a negative reinforcer as a motivational stimulus that strengthens such an "escape" response. Historically, in relation to drug addiction, this phenomenon has been consistently observed in humans whereby drugs of abuse are self-administered to quench a motivational need in the state of withdrawal (Wikler, 1952).^ a b c Berridge KC (April 2012). "From prediction error to incentive salience: mesolimbic computation of reward motivation". *The European Journal of Neuroscience*. 35 (7): 112443. doi:10.1111/j.1460-9568.2012.07990.x. PMC3325516. PMID22487042. When a Pavlovian CS+ is attributed with incentive salience it not only triggers 'wanting' for its UCS, but often the cue itself becomes highly attractive even to an irrational degree. This cue attraction is another signature feature of incentive salience. The CS becomes hard not to look at (Wiers & Stacy, 2006; Hickey et al., 2010a; Plech et al., 2010; Anderson et al., 2011). The CS even takes on some incentive properties similar to its UCS. An attractive CS often elicits behavioral motivated approach, and sometimes an individual may even attempt to 'consume' the CS somewhat as its UCS (e.g., eat, drink, smoke, have sex with, take as drug). 'Wanting' of a CS can turn also turn the formerly neutral stimulus into an instrumental conditioned reinforcer, so that an individual will work to obtain the cue (however, there exist alternative psychological mechanisms for conditioned reinforcement too).^ a b c Berridge KC, Kringelbach ML (May 2015). "Pleasure systems in the brain". *Neuron*. 86 (3): 64664. doi:10.1016/j.neuron.2015.02.018. PMC4425246. PMID25950633. An important goal in future for addiction neuroscience is to understand how intense motivation becomes narrowly focused on a particular target. Addiction has been suggested to be partly due to excessive incentive salience produced by sensitized or hyper-reactive dopamine systems that produce intense 'wanting' (Robinson and Berridge, 1993). But why one target becomes more 'wanted' than all others has not been fully explained. In addicts or agonist-stimulated patients, the repetition of dopamine-stimulation of incentive salience becomes attributed to particular individualized pursuits, such as taking the addictive drug or the particular compulsions. In Pavlovian reward situations, some cues for reward become more 'wanted' more than others as powerful motivational magnets, in ways that differ across individuals (Robinson et al., 2014b; Saunders and Robinson, 2013).... However, hedonic effects might well change over time. As a drug was taken repeatedly, mesolimbic dopaminergic sensitization could consequently occur in susceptible individuals to amplify 'wanting' (Leyton and Vezina, 2013; Lodge and Grace, 2011; Wolf and Ferrario, 2010), even if opioid hedonic mechanisms underwent down-regulation due to continual drug stimulation, producing 'liking' tolerance. Incentive-sensitization would produce addiction, by selectively magnifying cue-triggered 'wanting' to take the drug again, and so powerfully cause motivation even if the drug became less pleasant (Robinson and Berridge, 1993).^ McGreevy PD, Boakes RA (2007). *Carrots and sticks: principles of animal training*. Cambridge: Cambridge University Press. ISBN978-0-521-68691-4.^ a b Kazdin AE (2010). Problem-solving skills training and parent management training for oppositional defiant disorder and conduct disorder: Evidence-based psychotherapies for children and adolescents (2nd ed.). 211226. New York: Guilford Press.^ Forgatch MS, Patterson GR (2010). Parent management training Oregon model: An intervention for antisocial behavior in children and adolescents. Evidence-based psychotherapies for children and adolescents (2nd ed.). 15978. New York: Guilford Press.^ Donjan, M. (2009). *The Principles of Learning and Behavior*. 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In Baum A, Singer JE (eds.). *Advances in Environmental Psychology*, Vol.3. Hillsdale, NJ: Lawrence Erlbaum & Associates.Chance P (2003). Learning and Behavior (5thed.). Toronto: Thomson-Wadsworth.Cowie S (2019). "Some weaknesses of a response-strength account of reinforcer effects". *European Journal of Behavior Analysis*. 21 (2): 116. doi:10.1080/15021149.2019.1685247. S2CID210503231.Dinsmoor JA (November 2004). "The etymology of basic concepts in the experimental analysis of behavior". *Journal of the Experimental Analysis of Behavior*. 82 (3): 3116. doi:10.1901/jeab.2004.82-311. PMC1285013. PMID15693525.Ferster CB, Skinner BF (1957). Schedules of reinforcement. New York: Appleton-Century-Crofts. ISBN9780996453905. {{cite book}}: ISBN / Date incompatibility (help)Lewin K (1935). A dynamic theory of personality: Selected papers. New York: McGraw-Hill. ISBN9781447497134. {{cite book}}: ISBN / Date incompatibility (help)Skinner BF (1938). The behavior of organisms. New York: Appleton-Century-Crofts. ISBN9780996453905. {{cite book}}: ISBN / Date incompatibility (help)Skinner BF (1956). "A case history in scientific method". *American Psychologist*. 11 (5): 22133. doi:10.1037/h0047662.Zeiler MD (July 1968). "Fixed and variable schedules of response-independent reinforcement". *Journal of the Experimental Analysis of Behavior*. 11 (4): 40514. doi:10.1901/jeab.1968.11-405. PMC1338502. PMID5672249."Glossary of reinforcement terms". University of Iowa. Archived from the original on 13 April 2007.Harter JK, Shmidt FL, Keyes CL (2002). "Well-Being in the Workplace and its Relationship to Business Outcomes: A Review of the Gallup Studies.". In Keyes CL, Haidt J (eds.). *Flourishing: The Positive Person and the Good Life*. Washington D.C.: American Psychological Association. pp.205224.An On-Line Positive Reinforcement TutorialScholarpedia Reinforcementsciencelovebehavior.com Archived 2 October 2011 at the Wayback Machine^ Burdon, William M.; St. De Lore, Jef; Prendergast, Michael L. (7 September 2011). "Developing and Implementing a Positive Behavioral Reinforcement Intervention in Prison-Based Drug Treatment: Project BRITE". *Journal of Psychoactive Drugs*. 43 (sup1): 4050. doi:10.1080/02791072.2011.601990. ISSN0279-1072. PMC3429341. PMID22185038.Retrieved from " is a process that focuses on increasing or strengthening a response to fulfil a task. In behavioural psychology, this method is studied to reach the desired behaviour, either by supporting

Types of positive and negative reinforcement. Positive and negative reinforcement and punishment practice. What is positive and negative punishment. Positive and negative reinforcement worksheet. An example of positive and negative reinforcement. Learning positive and negative reinforcement worksheet. Positive and negative reinforcement and punishment examples. What is positive and negative reinforcement and punishment.