

Shaping

Baldwin og Baldwin (2001)

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07.03.2009 EA, HiAk 1

Stimuluskontroll

| Trial | SD (Red) Responses | SΔ (Green) Responses |
|-------|--------------------|----------------------|
| 0 | 0 | 0 |
| 20 | 100 | 80 |
| 40 | 180 | 120 |
| 60 | 280 | 150 |
| 80 | 350 | 180 |
| 100 | 400 | 200 |

FIG. 7.1 Development of a differential response in the presence of red and green stimuli. Cumulative number of responses over a 90-minute session in which responses in the presence of red are reinforced and responses in the presence of green are on extinction.

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Begreper

| | | | |
|----------------------------------|--|---|---|
| Differensiell forsterkning | Konsentrasjon av effektene av forsterkning (prosess) | Spredning av effektene ved forsterkning (prosess) | Differensiell forsterkning ved gradvis tilnærming (operasjon) |
| I forhold til responsegenskaper | Differensiering | Induksjon | Shaping |
| I forhold til stimulusegenskaper | Diskriminering | Generalisering | Fading |

07.03.2009 EA, HiAk 3

Stimulusgeneralisering

- **Stimulusgeneralisering** vil si at en bestemt type klasse av responser forekommer i nærvær av en rekke stimuli hvor den tidligere ikke har blitt forsterket.

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4

Diskriminering

- **Diskriminering** vil si at en bestemt type responser forekommer i nærvær av den samme stimulusen som tidligere har ledet til forsterkning.

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5

Differensiering

- **Differensiering** (responsdiskriminering) vil si innsnevring av effektene av forsterkning med hensyn på responsegenskaper.

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6

Induksjon

- **Induksjon** (responsgeneralisering) vil si spredning av effektene av forsterkning med hensyn på responsegenskaper.

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7

Differensiell forsterkning



- S⁰ ---- inhibit B₁
- S⁰ ---- inhibit B₂
- S⁰ ---- set the occasion for B₃ → (+)
- S⁰ ---- inhibit B₄
- S⁰ ---- inhibit B₅
- S⁰ ---- inhibit B₆
- S⁰ ---- inhibit B₇

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8

Variabilitet

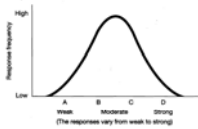


FIGURE 9-1 The natural variability of an operant behavior before differential reinforcement.

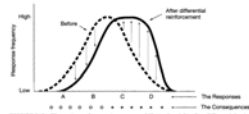


FIGURE 9-2 The pattern of operant response shifts to the right after differential reinforcement. Zero indicates no reinforcement, which causes behavior to extinguish (downward arrow); and + indicates positive reinforcement, which strengthens behavior (upward arrow).

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9

Responsgeneralisering

FIGURE 9-2 New behavior emerges due to response generalization to the shaded area, where EA indicates no reinforcement, and + indicates positive reinforcement.

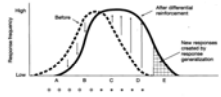


FIGURE 9-4 Even without special reinforcement for one behavior, response generalization effects can lead to generalization to appear in the shaded area above a bar. Zero indicates no reinforcement; + indicates positive reinforcement.

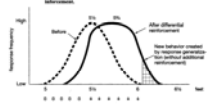
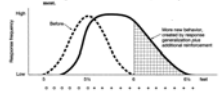


FIGURE 9-7 When response generalization is coupled with additional reinforcement for one behavior, the one behavior in the shaded area above a bar is more frequent than in Fig. 9-4. Zero indicates no reinforcement; + indicates positive reinforcement.



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10

Definisjon av shaping

Forming (shaping) av en bestemt respons-topografi består av at kriteriet for hvilke responsformer som leder til forsterkning endres gradvis i en bestemt retning.

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11

Shaping

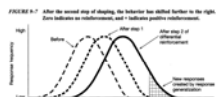
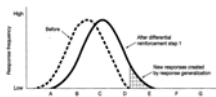
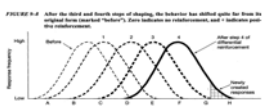


FIGURE 9-6 After the first step of shaping, the behavior has shifted to the right. Zero indicates no reinforcement, and + indicates positive reinforcement.

FIGURE 9-7 After the second step of shaping, the behavior has shifted further to the right. Zero indicates no reinforcement, and + indicates positive reinforcement.

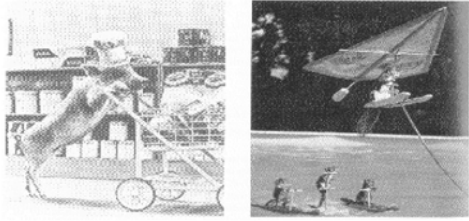


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12

Highly "Shaped" Behaviours



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13

"Tilfeldig" shaping

FIGURE 9-9 Small and easy steps of successive approximation. Each + indicates positive reinforcement.

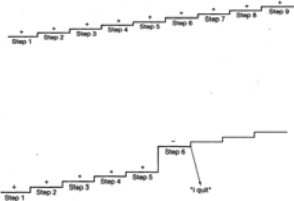


FIGURE 9-10 One big step can create problems. After steady progress under positive reinforcement (+ signs), the big jump to step 6 led to failure (- sign) and quitting.

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14

Eksempel



Figure 9-1 A misapplication of shaping.

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15
