

Foundations of motivation

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Agenda

- some foundational concepts in motivation
- a mixture of theory and intuition
- basics of Cognitive Evaluation Theory
- basics of Achievement Goal Theory
- basics of Attribution Theory
- experience collecting self-report data to measure a motivation construct

Questionnaire activity (part 1)

Fill in the questionnaire “Task and Ego orientation in Sport Questionnaire” (Duda, 1989). There is no right or wrong answer.

We will compute the scores (page 2) later in the session and we will discuss what the scores mean

Intuitive understanding

Etymology (origin of the word) of *motivation*: from the Latin “motus” meaning “motion”

A working definition for now can be “what moves somebody”

Analogy of “stick and carrot”

EXTRINSIC MOTIVATION

REWARDS AND PUNISHMENT



⚠ NOT RECOMMENDED FOR
COMPLEX PROBLEMS, CREATIVITY

sketchplanations

Figure 1: Image of donkey with carrot ahead and stick behind

Approach vs avoidance

Distinction used across several motivation models:

Direction:

- Approach
- Avoidance

Approach motivation refers to the tendency to move *towards* a desired goal, reward, or positive outcome.

Example: Aim to learn a new skill this week

Avoidance motivation refers to the tendency to move *away from* an undesired situation, threat, or negative outcome.

Example: Aim to avoid making mistakes this week

Intrinsic vs extrinsic motivation

	Intrinsic	Extrinsic
purpose:	...undertaken for its own pleasures	...undertaken for instrumental benefits
activity...		
reward:	experience itself	social or objective rewards (e.g., trophies, praise)
competitive pressure:	less pressure (concerned with the experience)	more pressure (concerned with the benefits)

Examples of intrinsic and extrinsic motivation:

- Intrinsic: running because you enjoy the sensation and challenge
- Extrinsic: running to qualify for team selection, or to earn a bonus

(same behavior, but different motivation)

Which one is better?

Intrinsic is often the ideal type

Theoretically distinct...

...but practically interacting in real life: more of one is associated with less of the other

Importantly, one can turn into the other.

Intrinsic Extrinsic

Anecdote of the old man and the kids

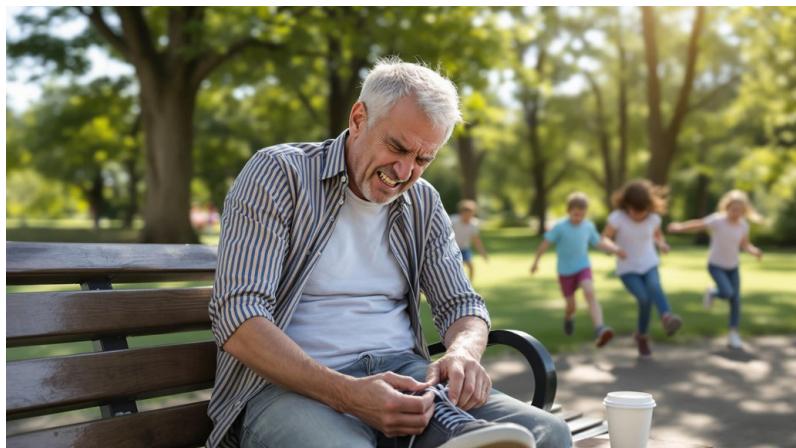


Figure 2: old man in distress near kids

The reward overjustified the activity. This phenomenon is called *overjustification effect*.

An old man lived alone on a street where boys played noisily every afternoon. The din annoyed him, so one day he called the boys to his door. He told them he loved the cheerful sound of children's voices and promised them each 50 cents if they would return the next day. Next afternoon the youngsters raced back and played more lustily than ever. The old man paid them and promised another reward the next day. Again they returned, whooping it up, and the man again paid them; this time 25 cents. The following day they got only 15 cents, and the man explained that his meager resources were being exhausted. "Please, though, would you come to play for 10 cents tomorrow?" The disappointed boys told the man they would not be back. It wasn't worth the effort, they said, to play all afternoon at his house for only 10 cents.

Cognitive Evaluation Theory (Deci & Ryan, 1991)

The way in which rewards are *interpreted* (evaluated) has an impact on intrinsic motivation

The *same* reward can be interpreted as

- **controlling** (i.e., trying to influence their behaviour), resulting in decreased intrinsic motivation
- **informational** (i.e., providing constructive feedback), resulting in enhanced intrinsic motivation

Which of these rewards are “controlling” and which are “informational”?

Coach: “Win and we skip tomorrow’s session” Giving a prize for just showing up Coach: “Your tackle timing improved; keep that footwork” Giving a progress report with specific, constructive comments

Well... it depends on your cognitive evaluation (interpretation)!

But it’s likely that the first two will be interpreted as **controlling** and the last two as **informational**.

Over time, rewards can shape motivation

intrinsically-motivating activity → Two paths:

1. **no external reward** → “I do this because I like it” → **more intrinsic, less extrinsic**
2. **external reward (e.g., money)** → “I do this because I am paid” → **less intrinsic, more extrinsic**

One can turn into the other

Further examples:

- A toddler's drawing activity becomes less enjoyable when rewards are introduced, as the focus shifts from the joy of drawing to earning the reward.
- Volunteering becomes less enjoyable when it transitions to a paid activity, as the focus shifts from intrinsic satisfaction to the external reward.
- Removing external rewards, such as points or badges, can renew interest in an activity when the activity itself is inherently enjoyable.

Hierarchical Model of Intrinsic/Extrinsic Motivation (HMIEM, Lalande & Vallerand, 2014)

Motivation operates at three hierarchical levels of generality (from most general to most specific):

Global level: how a person is generally motivated across life (e.g., traits)

Contextual level: within specific life domains (e.g., work, school, relationships, sport).

Situational Level: Motivation in specific situation, moments, or tasks within a certain context (e.g., studying for a test today).

Global Contextual Situational

level	example
situational	specific drills, specific parts of the game
contextual	football
global	sport

Similarity across levels. For example, high intrinsic motivation at the global level is associated with high intrinsic motivation at the contextual level

Small-group chats

1. Share an example from your own experience where your motivation changed from intrinsic to extrinsic (or vice versa). What triggered the change?
2. Think of an example from sport or exercise that fits all three hierarchical levels (just like in the table in the previous slide)
 - Global: Motivation across life
 - Contextual: Motivation within a specific sport or activity
 - Situational: Motivation in a specific moment or task within that sport

Achievement Goal Theory (Nichols, 1984)

Orientations:

- Task
- Ego

Two orientations (also known as “achievement goals”):

- **Task** / mastery orientation: focus on acquiring competence and personal development
- **Ego** / performance/outcome orientation: focus on demonstrating better performance than others

Examples:

“I will try to beat my own best lap time today” (Task orientation)

“I want to finish ahead of my teammates today” (Ego orientation)

The two orientations are associated with different behaviours and thoughts

Orientation	Persistence (in spite of failure)	Moral behaviour	Perceived competence
Task	high	high	stable
Ego	low	low	unstable*

i Note

Task orientation is not the same as intrinsic motivation, and ego orientation is not the same as extrinsic motivation. An ego oriented athlete can still be intrinsically motivated if they genuinely enjoy competition

*contingent on comparisons with others

Questionnaire activity (part 2)

This questionnaire measured your task and ego orientation

Complete page 2 of the questionnaire document to know your scores

Achievement Goal Theory (Nichols, 1984), continuation

Two climates (also known as “perceived demands”):

Climates:

- Task
- Ego

Climates are environments that facilitates or impede the development of a certain personal orientation.

- **Task** climate: rewards and punishments are contingent to development and effort
 - **Ego** climate: rewards and punishments are contingent to distance from desired outcome
-

Typically, an ego climate fosters ego orientation, and a task climate fosters task orientation.¹

Examples of task-climate cues:

- Effort and improvement praised
- individual progress charts

Examples of ego-climate cues:

- Public leaderboard and comparison
- mistakes punished publicly

Imagine this scenario and discuss in small groups

You are the psychologist of a *youth* football club. A football coach had **previously emphasized competition** among players, frequently posting public leaderboards and *rewarding* only those who outperformed others. Over time, athletes began to focus solely on winning, felt anxious about mistakes, immoral behaviour increased, and reported enjoying the sport less. Realizing the negative impact, the coach now asked for your help. What would you do? (Hint: shift from ego to task climate)

Here's what you could do:

- Reward effort, improvement, and learning (e.g., through praises) rather than just outcomes

¹But it's possible to have a task orientation within an ego climate

- Set individual progress goals and celebrate personal bests
- Introduce activities where success is measured by mastering new skills, not by comparison
- Reduce public comparisons and instead highlight collective achievements

i Note

Note: an ego climate *might* be inappropriate in certain contexts (e.g., youth, leisure) but appropriate in other contexts (e.g., elite, competition)

Trichotomous model (Elliot, 1999)

The trichotomous model expands on previous theories by integrating three dimensions of motivation to provide a more detailed understanding of achievement-related behaviors.

Three dimensions:

- **Orientation:** Task, Ego
- **Climate:** Task, Ego
- **Direction:** Approach, Avoidance

Three dimensions:

- **Orientation** / achievement goal (task, ego),
- **Climate** / perceived demands (task, ego),
- **Direction** (approach, avoidance)

“Two-by-two model” (Elliot, 1999)

	Approach	Avoidance
Task	Task-Approach	Task-Avoidance
Ego	Ego-Approach	Ego-Avoidance

Example of “two-by-two model”

	Approach	Avoidance
Task	Striving to learn a new skill	Striving to avoid decline in skill
Ego	Striving to outperform others	Striving to avoid doing worse than others

⋮

Attribution Theory (Weiner, 1986)

Attribution: explanation for **why** something happened

This model categorizes explanations against 3 dimensions, each defined in two levels:

- **Locus of causality**
 - internal: due to individual characteristics
 - external: due to something not pertaining to the individual
 - **Stability**
 - stable: it does not vary over time
 - unstable: it varies over time
 - **Locus of control**
 - under own control: it can be changed by the individual
 - outside own control: it cannot be changed by the individual
-

Examples of Attribution Theory

Scenario	Causal- ity	Stabil- ity	Locus of Control
“I failed the test because I didn’t study enough.”	Internal	Unstable	Under own control
“We lost the game because the referee made bad calls.”	External	Unstable	Outside own control
“I won the race because I have natural talent.”	Internal	Stable	Outside own control
“The project succeeded because the team worked hard.”	Internal	Unstable	Under own control

Memory tip

How to remember the distinction between “Achievement Goal Theory” and “Attribution Theory”.

Both deal with successes and failures. The former is concerned with the **what**, the latter with the **why**.

Both Achievement Goal Theory and Attribution Theory are concerned with success/failure:

- **Achievement Goal Theory:** Focuses on personal definition of success/failure (what defines success?)
- **Attribution Theory:** Focuses on explanations for success/failure (why did it happen?)

Additional and optional: Self-determination theory (Deci & Ryan, 1985)

Focuses on the degree to which human behavior is self-motivated and self-determined.

Three basic psychological needs:

- **Autonomy:** Feeling in control of one's actions and decisions.
- **Competence:** Feeling effective and capable in one's activities.
- **Relatedness:** Feeling connected to others and having a sense of belonging.

Very influential theory because it highlights the importance of basic psychological needs in fostering optimal functioning, well-being, and sustained engagement. It provides a framework for understanding *how different types of motivation impact behavior and performance* across various domains.

This theory will be more prominent in your year 2 (exercise psychology, e.g., motivations to exercise or to healthy lifestyle).