INVESTIGATING THE CONCEPT OF “LIGHTNESS” AS REFLECTED IN THE RUSSIAN-SPEAKING UKRAINIANS’ LINGUISTIC CONSCIOUSNESS

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Abstract. The purpose of this study is to define and describe the semantic components of the verbalised concept “lightness” as a component of ludic competence in the linguistic consciousness of the Russian-speaking people from Eastern Ukraine. The main method of the research was a psycholinguistic experiment. The sample comprised 426 young people (aged 18–35), males and females being equally represented. Cluster analysis showed that the core of the concept “lightness” is represented by three semantic groups: “the quality being light and insignificant in weight and size …”, “the feeling of happiness and joyful ease”, “the feeling of freedom …, cheerfulness, excitement”. The last two clusters reveal the ambivalent nature of the concept “lightness”. The concept “lightness” is characterized by a large variety of peripheral clusters. The ones that are especially noteworthy are “insight” and “duality”. The former reflects the cognitive component of lightness, which accounts for 3 per cent. The latter reflects the concept’s ambivalent nature. Basically, the semantic content of the core of the word “lightness” does not depend on gender. The comparative analysis of the concept “lightness” in the linguistic consciousness of Ukrainian citizens and people living in Russia reveals its nationally-specific perception in the linguistic consciousness of Ukrainian people, which was reflected in the most frequent reaction “freedom”. Taken together, both samples share a number of common features: wide semantic scope; strong synonymic and weak antonymic connections between stimulus and reactions; positive emotional response to the stimulus. Finally, the results of the free word association test with the stimulus word “lightness” were successfully used to

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define more precisely and expand our understanding of “lightness” as a component of ludic competence taking into account both core and peripheral clusters.

**Keywords**: ludic competence, playfulness, ludic position, lightness, psycholinguistic experiment, free word association test, linguistic consciousness.

1. Introduction

This article is part of the joint research effort dedicated to *ludic competence* (Gordienko-Mytrofanova & Kobzieva, 2017; Gordienko-Mytrofanova, Pidchasov, Sauta, & Kobzieva, 2018). We define ludic competence as a system if inner resources to which a person turns in order to balance their personality against external conditions of the social environment on the basis of positive emotions, e.g. interest and joy, which are frequently expressed in a very emotional way, accompanied by tension and excitement.

Ludic competence is formed alongside the development of *playfulness*, which is a stable personality trait and has been subject of scientific research since 1975 (Csikszentmihalyi, 1975; Groos, 1976; Chapman, 1978; Bowman, 1987; Barnett, 1990; Bundy, 1996; Schaefer & Greenberg, 1997; Guitard, Ferland, Dutil, 2005; Shen, 2010; Yarnal & Qian, 2011; Proyer, 2012; Yue et al., 2016; Gordienko-Mytrofanova & Kobzieva, 2017).

We define playfulness as a person’s creative adaptation to the reality of their own “Self” (individual identity) and to the reality of the World (social identity). As a result, every difficult situation can be faced as a challenge, rather than a threat (Gordienko-
Mytrofanova & Kobzieva, 2017; Guitard et al., 2005, p. 19).

In Ukraine, we are pioneers among scholars in studying playfulness. We study it with the help of psycholinguistic methods and psycholinguistic experiment in particular, whose major part is free word association test. Previously, we undertook the most extensive longitudinal free word association test with the stimulus word “playfulness” (4,795 respondents). Then, in order to explore common tendencies and characteristic features of the general population (which is the whole population of Ukraine aged 18–75 who are fluent in Russian) and to meet the objectives of this research, several samples were formed. Nineteen psycholinguistic meanings of playfulness were described as a result of the psycholinguistic experiment with a sample of 1,600 respondents.

Relying on previous theoretical and empirical research into playfulness as a personality trait (Barnett, 2007; Guitard et al., 2005; Proyer, 2012; Yarnal & Qian, 2011; Yue et al., 2016), as well as analysis of components/scales of playfulness (Glynn & Webster, 1992; Tsuji et al., 1996; Schaefer & Greenberg, 1997; Barnett, 2007; Yarnal & Qian, 2011; Proyer, 2012; Shen, Chick, & Zinn, 2014; Proyer, 2017), high-frequency reactions of the biggest sample of 4,795 respondents and established psycholinguistic meanings, we managed to single out the following components of playfulness: sensitivity, imagination, sense of humour, lightness, flirting, impishness, fugue (Gordienko-Mytrofanova & Kobzieva, 2017; Gordienko-Mytrofanova et al., 2018; 2019).

The components of playfulness as an integral personality trait are also the components of ludic competence. We define them as “motivational predisposition” (Raven, 2001). This “motivational predisposition” forms the basis of ludic positions of effective social interaction: “sensitivity” (sensitive) – “Aesthete”; “imagination” – “Sculptor”; “lightness” (“light”) – “Balance-Master”; “flirting” (flirtatious) – “Diplomat”; “impishness” (impish) – “Frolicsome Fellow”; “humour” (funny) – “Real Humourist”; “fugue” (fugue) – “Holy Fool”. Ludic positions reflect the way how ludic competence manifests itself in different standard and non-standard situations, which brings about behavioural aspect. Therefore, mastering ludic positions means mastering certain behavioural patterns.

The names of ludic positions are justified both theoretically and empirically (Gordienko-Mytrofanova et al., 2018) and were tested during coaching sessions in ludic competence, which are part of the curriculum of psychology students at H.S. Skovoroda Kharkiv National Pedagogical University, Ukraine.

As it was mentioned above, lightness is one of the components of ludic competence. Lightness is not part of any scales designed to measure playfulness that we are aware of: Adult Playfulness Scale (Glynn, & Webster, 1993); Playfulness Scale for Adults (Schaefer & Greenberg, 1997); Playfulness Scale for Young Adults (Barnett, 2007); Older Adult Playfulness Scale (Yarnal & Qian, 2011); Short Measure of Adult Playfulness (Proyer, 2012); Adult Playfulness Trait Scale (Shen et al., 2014); Other-directed, Lighthearted, Intellectual, and Whimsical playfulness (Proyer, 2017).
However, as it was mentioned above, lightness as a component of playfulness / ludic competence was discovered as we described the psycholinguistic meanings of *playfulness* with a sample of 1,600 respondents (Gordienko-Mytrofanova et al., 2019).

We decided to study *lightness* as a component of ludic competence from a psycholinguistic approach, using free word association test as a psycholinguistic tool for clarifying and expanding our understanding of the semantic content of notions that are expressed in the language with the help of particular words. Free word association test has already proved to be very effective in studying *impishness, imagination, humour* as components of ludic competence, as well as studying *holy fool* as a ludic position (Gordienko-Mytrofanova et al., 2018; Kobzieva, Gordienko-Mytrofanova, & Goncharenko-Kulish, 2020a; Kobzieva, Gordienko-Mytrofanova, & Sauta, 2020b; Kobzieva, Gordienko-Mytrofanova, Udovenko, & Sauta, 2020c).

In our coaching sessions dedicated to ludic competence, we use the results of the psycholinguistic experiment that help us consider gender-specific differences in the perception of certain component of playfulness / ludic competence expressed with the help of a particular word, emotional attitude to this word, as well as its popular meanings that are typical of the linguistic consciousness of the Russian speakers in Ukraine.

*Linguistic consciousness* is coined as “the aggregate of psychological mechanisms of speech generation and understanding, as well as retaining the language in consciousness, i.e., mental mechanisms that underlie a person’s speech activity” (Popova & Sternin, 2007, p. 32). It should be noted that this approach describes linguistic consciousness from the perspective of psycholinguistics, science with the human linguistic consciousness in the context of its psychological reality as an exclusive object of study (Sternin & Rudakova, 2011; Zasiekina, 2008).

The associative field obtained in the course of association experiment is “not only a fragment of the verbal memory of a human being, but also a fragment of the image of the world shared by a particular ethnos, reflected in the consciousness of an average representative of some particular culture, their motives and judgments, and, consequently, cultural stereotypes” (Ufimtseva, 2009, p. 98). The scope and nature of reactions in associative fields tell us a lot about the word usage, revealing the content of the word which is psychologically common among the native speakers of the language.

The present article describes the results of a joint research effort (2017–2019) into the stimulus “lightness” that was conducted by K. Borokh, M. Kosenko, Iu. Kobzieva under the supervision of I. Gordienko-Mytrofanova on the basis of the Department of Applied Psychology at H. S. Skovoroda Kharkiv National Pedagogical University.

The aim of the present article is to use the method of applied psycholinguistic research to define semantic components of the verbalised concept “lightness” in the linguistic consciousness of young Russian-speaking people living in Ukraine.
The results of the research will be later used 1) to define lightness as a component of ludic competence and as playfulness scale in the questionnaire that we are developing on the basis of cluster analysis results; 2) to describe behavioural pattern of the ludic position “Balance-Master” taking into account meanings that reflect the linguistic consciousness of Russian native speakers.

The following objectives were outlined: to determine general features of the verbal behaviour of young respondents in the framework of studying the verbalised concept “lightness”; to suggest major strategies and ways of dividing associations triggered by the stimulus “lightness” into clusters.

2. Methods

The main method of this research is a psycholinguistic experiment, whose major part is free word association test with the stimulus word “lightness”. As additional methods, we used surveys (to refine the results of the free word association test) and questionnaires (to specify the characteristics of the sample). As a mathematical-statistical method to analyze the results of the research, we used frequency and cluster analysis, which allowed us to identify tendencies in the distribution of associations expressed by the experimental group.

The free word association test with the stimulus word “lightness” was conducted in written form. Respondents were instructed to state their gender, age, education/specialisation, marital status, and write down the first five words that came to their minds that were somehow associated with the word “lightness”.

The total number of respondents was 426 young people (18–35 y.o.), males and females being equally represented. By education, 76.7% had a university degree, 3% were undergraduate students, 13.8% completed secondary school education, and 6.5% did not state their education. By marital status, 69.9% were married, 0.7% cohabited with a partner, 2.3% had a girlfriend or boyfriend, 19.9% were single, 0.7% were divorced; 6.5% did not state their marital status.

3. The study

3.1. Building associative fields for five reactions and for the first reaction

Frequency analysis of the free word association test with the stimulus word “lightness” enabled us to build associative fields for five reactions and for the first reaction. A total of 1,645 reactions were expressed by the respondents (the results of the free word association test were processed for five reactions). Out of these, 747 reactions were unique\(^3\), including 153 word combinations and complete sentences, 267 reactions with a frequency greater than one, 480 isolated cases\(^4\), 0 declined to answer the question.

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\(^3\) Unique reactions are reactions expressed with different lexemes (Karaulov, 2002a).

\(^4\) Isolated cases are reactions with a frequency that equals 1 (Karaulov, 2002a).
As far as the first reaction is concerned, the free word association test with the stimulus word “lightness” yielded 426 associations, of which 226 reactions were unique, including 34 word combinations; 68 reactions with a frequency greater than one, 158 isolated cases, 0 declined to answer the question.

Comparative analysis of the associative fields (for the first and for five additional reactions) prompted the conclusion that the scope and nature of reactions have not changed significantly. What has changed, though, is the sequence of high-frequency reactions (Fig. 1), as well as the quantity of peripheral reactions and isolated cases. The latter can be easily explained by the bigger number of respondents.

Figure 1
Comparative analysis of the associative fields for the first and for five additional reactions to the stimulus word “lightness”

3.2. Partial semic interpretation of the results of the frequency analysis for the free word association test with the stimulus word “lightness” according to the first reaction

Partial semic interpretation of the results of the frequency analysis for the free word association test with the stimulus word “lightness” according to the first reaction was the next stage of our research. Partial semic interpretation of associative reactions...
involves combining cognate associations and nominations of the same semantic component expressed by different parts of speech, including singular and plural forms of the same word.

Partial semic interpretation allows us to obtain more objective data on high-frequency associations and the quantity of different sememes that were revealed during the experiment. For example, feather 14 [feather 9, small feather 3, white feather, white feather in weightlessness 1], cloud 10 [cloud 9, clouds 1], fluff 11 [fluff 7, bit of fluff 3, poplar fluff 1], weightlessness 9, [weightlessness 8, weightless 1]. Analysis of the data from partial semic interpretation resulted in a changed sequence of some high-frequency associations in comparison with the reactions. However, the composition and nature of the associations remained the same.

3.3. General features of the verbal behaviour of the young respondents

Partial semic interpretation allowed us to outline general features of the verbal behaviour of the young respondents (Fig. 2).

Figure 2
Comparative analysis of associations of female and male samples to the stimulus “lightness”
The general features of the verbal behaviour of the young respondents are represented in the following lexemes (more that 1%): freedom 30 (7.04%), air 16 (3.76%), airiness 10 (2.35%), wind, feather 9 (2.11%), flight 8 (1.88%).

3.4. Negative reactions
The associative field of the stimulus “lightness” had a number of reactions with negative connotation (1.9%). These are: couldn’t-care-less attitude 2, indifference, marijuana, lying, alcohol addiction, madness, smoking 1.

The low number of negative reactions shows that the general attitude of the respondents to the stimulus “lightness” is quite positive.

3.5. Semantic clusters of the verbalised concept “lightness”
426 reactions obtained during the experiment were distributed among the following semantic groups/clusters:

1. Air 16, airiness 11 [airiness 10, airy shawl 1], feather 14 [feather 9, small feather 3, white feather, white feather in weightlessness 1], cloud 10 [cloud 9, clouds 1], fluff 11 [fluff 7, bit of fluff 3, poplar fluff 1], weightlessness 9, [weightlessness 8, weightless 1], meringue, weight, dandelion 4, snow 3 [snow 2, snowflake 1], carpet, slenderness, ball 2, immaterial, scales, hydrogen, hair, helium, knee high socks, dessert, marshmallow, kefir, mosquito, basket, fur, soap bubbles, soft, dress, fluffiness, backpack, soufflé, comfortable shoes, energy consumption ether 1 – 113 (26.5%) f. 59 (13.85%), m. 54 (12.7) = “THE QUALITY BEING LIGHT AND INSIGNIFICANT IN WEIGHT AND SIZE; AIRINESS, WEIGHTLESSNESS” (indicated as “SOMETHING LIGHT” in Fig. 3).

2. Happiness 7 [happiness 6, feeling of happiness 1], sky, joy 6 [joy 5, heart full of joy 1], love [love 4, falling in love 1], calm 5, lightheartedness, soul 4, spring, comfort, silence 3, peace [peace, appeasement 1], sea, mood, tenderness, relaxation, emptiness, pleasure, hobby 2, balance, carelessness, return, all is well, completion, completed work, green grass, summer, daydream, ease of mind, finally, holiday, snowdrop, work done correctly, nature, walk, journey, relaxedness, relax, state, satisfaction 1 – 84 (19.71%), f. 43 (10.09%), m. 41 (9.62%) = “THE FEELING OF HAPPINESS AND JOYFUL EASE” (indicated as “HAPPINESS” in Fig. 3).

3. Freedom 34 [freedom 30, liberation 2, taking a load off, freedom of speech 1], health 5 [health 4, healthy lifestyle 1], spontaneity 3, cheerfulness, delight, excitement

The authors of the paper coded the reactions as positive or negative on the basis of Russian dictionaries which give information about emotional connotations of words (Dal, 2011; Ozhegov & Shvedova, 2011; Ushakov, 1935–1940; Yefremova, 2000), e.g. ALCOHOL ADDICTION: 1. A disease that involves compulsive use of alcohol. 2. colloq. Excessive drinking (Yefremova, 2000); COULDN’T-CARE-LESS ATTITUDE slang. Careless, indifferent attitude to people and everything that happens (Yepishkin, 2010). The agreement between the researchers was 95%.

The reactions were distributed among various clusters on the basis of the algorithm of describing psycholinguistic meanings developed by Sternin (Sternin & Rudakova, 2011). The author of this article, Gordienko-Mytrofanova, collaborated with Sternin during 3 years and described the psycholinguistic meanings of the stimulus word “playfulness” with a sample of 1,600 respondents under his supervision.
2, opportunities, enthusiasm, independence, space, sex, courage, confidence, financial stability, vigor 1 – 57 (13.38%), f. 28 (6.57%), m. 29 (6.81%) = “THE FEELING OF FREEDOM (physical or mental), CHEERFULNESS, EXCITEMENT” – (indicated as “FREEDOM” in Fig. 3).

4. Wind 12 [wind 9, light wind 2, warm wind 1], dream 3 [light and warm dream, dream, to sleep], alcohol 3 [alcohol 2, alcohol addiction 1], breeze [breeze, light breeze 1], transparence 2, aquarelle, white, flapping, light, affection, pastel, sunrise 1 – 29 (6.8%), f. 18 (4.2%), m. 11 (2.6%) = “THE QUALITY OF SOMETHING INCONSPICUOUS IN ITS MANIFESTATION” – (indicated as “SOMETHING INCONSPICUOUS” in Fig. 3).

5. Flight 8, hovering 4 [hovering, to hover 2], bird 3, butterfly, hang-glider, wings, planet 1 – 19 (4.46%), f. 9 (2.11%), m. 10 (2.34%) = “THE ABILITY TO MOVE OR HOVER IN AIR” – (indicated as “HOVERING” in Fig. 3).

6. Relationships 3, communication, honesty 2, amiability, benevolence, trust, unresentfulness, treatment of people, not bearing grudges, decency, condescension, character, person 1 – 18 (4.2%), f. 5 (1.18%), m. 13 (3.05%) = “FEATURE OF CHARACTER OF PERSON WHO IS DECENT AND EASY TO DEAL WITH” – (indicated as “FEATURE OF CHARACTER” in Fig. 3).

7. Movement 4, gait 3, ballet dancer [ballet dancer, ballet 1], jump 2, barefoot on the grass, golf, grace, legs, worship, sliding 1 – 17 (3.99%), f. 6 (1.41%), m. 11 (2.58%) = “ABILITY TO MOVE GRACEFULLY”, about a person – (indicated as “GRACEFULNESS” in Fig. 3).

8. No fuss, knowledge 2, luckiness, money, magic touch, mark, victory, promotion, growth, luck, success 1 – 13 (3.05%), f. 5 (1.17%), m. 8 (1.88%) = “ABILITY TO ACQUIRE SOMETHING EFFORTLESSLY, BY GOOD LUCK” – (indicated as “LUCK” in Fig. 3).

9. Simplicity 5, insight 3, inspiration, perception, availability, epiphany, clarity 1 – 13 (3.05%), f. 9 (2.11%), m. 4 (0.94%) = “INSIGHT”.

10. Creation, sport 2 [sport, athletic 1], running, easy climbing, absence of tension, habit, professionalism, work, magic trick 1 – 11 (2.58%), f. 6 (1.4%), m. 5 (1.17%) = “ABILITY TO DO SOMETHING WITHOUT EFFORT OR STRAIN” – (indicated as “ABSENCE OF TENSION” in Fig. 3).

11. Bright 2, playfulness, song, smile, flute, euphoria, humour 1 – 8 (1.87%), f. 8 (1.87%) = “MANIFESTATION OF JOY”.

12. Breath 3 [breath 2, to breathe 1], being, death, lifestyle 1 – 6 (1.4%), f. 2 (0.47%), m. 4 (0.94%) = “ABSENCE OF DIFFICULTIES AND SUFFERING”.

13. The Unbearable Lightness of Being 3 [the unbearable lightness of being 2, unbearable 1], dissociation, duality, unusualness 1 – 6 (1.4%), f. 5 (1.17%), m. 1 (0.23%) = “DUALITY”.
14. Bicycle 3 [bicycle, riding the bicycle at high speed, riding the bicycle at high speed in the forest], quickness, cars, promptitude 1–6 (1.4%), f. 1 (0.23%), m. 5 (1.17%) = “SPEED”.

15. Disengagement 3, naturalness, smoothly 1–5 (1.17%), f. 4 (0.94%), m. 1 (0.23%) = “DISENGAGEMENT”.

16. Freshness [freshness, fresh air], purity 2–4 (0.94%), f. 3 (0.7%), m. 1 (0.235%) = “FRESHNESS”.

17. Enema 2, hunger, restroom 1–4 (0.94%), f. 2 (0.47%), m. 2 (0.47%) = “ABSENCE OF STOMACH HEAVINESS”.

18. Madness, agile mind, mind 1–3 (0.7%), m. 3 (0.7%) = “LIGHT-MINDEDNESS”.

19. Children 2, youth 1–3 (0.7%), f. 2 (0.47%), m. 1 (0.235%) = “A QUALITY TYPICAL OF CHILDHOOD AND YOUTH”.

20. Woman 2, young girl 1–3 (0.7%), f. 1 (0.23%), m. 2 (0.47%) = “A QUALITY OF A WOMAN OR A YOUNG GIRL”.

Figure 3.
The results of cluster analysis of the verbalised concept “lightness”
The diagram (Fig. 3) includes the first ten clusters that account for more than 2%; the aggregate of clusters 11–20 amount to 12% and are represented in the diagram as the eleventh cluster without a title.

The clusters described above do not contain reactions represented by antonyms: complexity 2 – 2 (0.47%), f. 1 (0.235%), m. 1 (0.235%); heaviness 2 – 2 m. (0.47%). Further interpretation of these reactions as the actualisation of the main differential seme of antonymic pairs – lightness-complexity, lightness-heaviness – will be provided while describing the psycholinguistic meanings.

In addition, the clusters contain reactions expressed by fixed phrases that give information about common idiomatic phrases with the stimulus, e.g. magic touch (“light hand” in Russian), quick money (“light money”), easy-going person (“light soul”), clear understanding (“light understanding”), athletic lightness, agile mind (“light mind”), light breath, the unbearable lightness of being, etc.

It is worth mentioning that the most complete and semantically adequate description of the concept “lightness” will be acquired only after its psycholinguistic meanings are described. This is due to the large number of polysemantic words among the reactions to the stimulus, e.g. freedom, happiness, joy, love, etc., which definitely made the task of distributing reactions by semantic groups more complicated. Certain semes may appear in the description of more than one psycholinguistic meaning.

4. Discussion

Regarding the free word association test with the stimulus word “lightness” in the Russian language, we are aware of research conducted by Russian scholars Karaulov, Cherkasova, Ufimtseva, Sorokin, Tarasov (Karaulov et al., 2002a, 2002b) in 1990s that described the results of the free word association test with the stimulus “lightness”.

Below are the results of the associative field of the stimulus word “lightness” provided by the Russian Dictionary of Associations. We processed them in the same manner as it was described in part 3.4. of this article.

LIGHTNESS: in body 5; of soul, of behaviour, of gait, heaviness 4; in communication, of movement, of arms, of body 3; air, life, gait, bit of fluff 2; ballet, to run, fight, quickness, in movement, in movements, everywhere, of weight, joyfully, spring, wind, in everything, airiness, airy, balloon, in behaviour, during flight, during conversation, of spinning, grace, of a young girl, of actions, soul, of breath, naturalness, of life, of bone, lightly, of lying, incredible [lightness] of thoughts, of thought, filling the soul, being naive, being excited, unobtrusiveness, not for long, not difficult, relief, of communication, optimism, feeling, feather, personal computer, flight, of flight, of object, simply, of jump, freshness, power, state of body, happiness, of dance, body, surprising, of mind, of step, scarf, euphoria, Reebok 1; 104+74+0+60;

Phrases in brackets are literal translations of Russian idiomatic expressions that contain the stimulus word.
104 (number of respondents); 74 (number of unique reactions); 0 (number of declines); 60 (number of isolated cases) (Karaulov, 2002a, p. 289).

Here are some examples from the associative field in the reverse dictionary (from reactions to stimulus): LIGHTNESS ← butterfly, difficulty 4; LIGHTNESS ← carelessness, heaviness 2; LIGNTNESS ← throw in the air, spring, air, hungry, to give, a girl, Everest, to experience, a sturdy fellow, to fly, to carry, to promise, relief, to hover, superficial, flight, flutters, flippant girl, fluff, freshness, free, athletic 1; 27+35 (Karaulov, 2002b, p. 381–382). As in the direct dictionary, figures after the stimulus indicate how often this word form appears in the dictionary entry of the corresponding stimulus. Two final figures in the end of the entry in the reverse dictionary (27+35) indicate the total number of its occurrences in the dictionary (27) and the number of stimuli (or entries in the direct dictionary) that trigger this word form (35).

Comparative analysis of the associative fields of Ukrainian people and people who live in Russia reveals that the most frequent reaction in the Russian linguistic world-image is “IN BODY”, i.e. feeling excited, cheerful, and full of energy, whereas Russian-speaking respondents from Ukraine tend to associate lightness with the feeling of freedom and absence of restrictions (“FREEDOM”). Diagram (Fig. 4) shows the number of common reactions.

Figure 4.
The results of the comparative analysis of the associative fields of the concept “lightness”

A distinctive feature of the Russian sample is the absence of negative reactions, while the Ukrainian sample features 1.9% of reactions with negative connotations; as well as a large number of reactions expressed by fixed phrases that give information
about common idiomatic phrases with the stimulus – *(lightness) of gait, (lightness) of behaviour, (lightness) in communication, (lightness) of movement, (lightness) of body, (lightness) in everything*, etc.

Another characteristic feature of the Ukrainian sample is the ambivalent nature of the verbalised concept “lightness”, which manifests itself in core clusters such as “the feeling of happiness and joyful ease” (20%) and “the feeling of freedom (physical or mental), cheerfulness, excitement”, as well as in the peripheral cluster “duality” (1.4%).

In general, both samples display a wide semantic scope, strong synonymic and weak antonymic bonds between stimulus and reaction, positive attitude to the stimulus.

However, it should be noted that we use free word association test as a tool for clarifying and expanding our understanding of various notions, e.g. *lightness* as a component of ludic competence. Relying on the psycholinguistic meanings of playfulness that we described in our previous works (Gordienko-Mytrofanova et al., 2019) and on the results of cluster analysis presented in the current paper, we can define lightness (as a component of ludic competence) as *the ability to dissociate oneself from a situation, keeping the state of inner freedom, to accept any outcome of this situation as potentially effective without clinging to hopes or expectations, and to adjust one’s behaviour to changing circumstances*. It is worth mentioning here that the semantic content of *lightness* as a component of ludic competence was defined on the basis of core clusters “the feeling of happiness and joyful ease”, “the feeling of freedom (physical or mental), cheerfulness, excitement” and peripheral clusters – “ability to acquire something effortlessly, by good luck”, “insight”, “ability to do something without effort or strain”, “duality”.

5. Conclusions

In the first place, the cluster analysis showed that the core (more than 10%) of the verbalised concept “lightness” is represented by three semantic groups: “the quality being light and insignificant in weight and size; airiness, weightlessness” (27%), “the feeling of happiness and joyful ease” (20%), “the feeling of freedom (physical or mental), cheerfulness, excitement” (13%). The last two clusters reveal the ambivalent character of the verbalised concept in the linguistic consciousness of the Russian speakers in Ukraine. On the one hand, the verbalised concept “*lightness*” is represented by lexemes that refer to having *heart full of joy, lightheartedness, calm, appeasement, feeling comfort, silence, satisfaction*, etc., but on the other hand, it is also represented by lexemes that refer to feeling *cheerfulness, excitement, vigor*, etc.

Secondly, the concept “lightness” displays a large variety of peripheral clusters (less than 10%, but more than 1%). Out of them, two clusters – “insight” and “duality” – deserve closer attention. The former reflects the cognitive component of *lightness*. The cluster with the arbitrary name “insight” accounts for mere 3%, which testifies to the fact that Ukrainian respondents in the same way as their Russian counterparts do
not tend to associate lightness with cognitive characteristics. The latter cluster, “duality”, indirectly proves the ambivalent nature of the concept.

Thirdly, analysis of reactions produced by the Russian-speaking respondents from Eastern Ukraine did not reveal any significant difference between male and female samples. It means that the core semantic content of the concept “lightness” does not depend on gender identification. Clusters on the extreme periphery are exclusively represented either by female (e.g. “manifestation of joy”) or male reactions (e.g. “light-mindedness”), which is most probably explained by individual preferences of usage rather than by gender-specific tendencies.

In the fourth place, comparative analysis of the verbalised concept lightness in the linguistic consciousness of Russian-speaking people from Ukraine and Russian, relying on the results of the frequency analysis (for five reactions, for the first reactions, as well as female and male associative fields) reveals a certain national-specific feature in the way how stimulus “lightness” is perceived. This was reflected in the most frequent reaction – “freedom”. In this respect, a conclusion can be made that the concept “lightness” has a more prominent ambivalent nature and a bigger semantic scope in the linguistic consciousness of Ukrainian respondents.

Finally, it is worth mentioning once again that the results of the free word association test with the stimulus word “lightness” was applied in order to define the semantic content of lightness as a component of ludic competence considering both core and peripheral clusters.

As for the prospect of further research, we believe it is necessary, in the first place, to describe the psycholinguistic meanings of the stimulus “lightness” in order to receive a more complete model of the systemic meaning of the word “lightness”. Besides, it appears necessary to describe the behavioural pattern of the ludic position “Balance-Master” in the framework of ludic competence training sessions, taking into consideration core and peripheral semes of the concept “lightness”. The research also proves the efficiency of free association test as a psycholinguistic tool for clarifying and expanding our understanding of various notions.

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