

## Variablen-Übersicht

---

### Fragebogen-Interne Daten

Im Datensatz finden Sie neben Ihren Fragen folgende zusätzliche Variablen, sofern Sie die entsprechende Option beim Herunterladen des Datensatzes nicht deaktivieren.

**CASE** Fortlaufende Nummer der Versuchsperson

**REF** Referenz, falls solch eine im Link zum Fragebogen übergeben wurde

**LASTPAGE** Nummer der Seite im Fragebogens, die zuletzt bearbeitet und abgeschickt wurde

**QUESTNNR** Kennung des Fragebogens, der bearbeitet wurde

**MODE** Information, ob der Fragebogen im Pretest oder durch einen Projektmitarbeiter gestartet wurde

**STARTED** Zeitpunkt, zu dem der Teilnehmer den Fragebogen aufgerufen hat

**FINISHED** Information, ob der Fragebogen bis zur letzten Seite ausgefüllt wurde

**TIME\_001...** Zeit, die ein Teilnehmer auf einer Fragebogen-Seite verbracht hat

Bitte beachten Sie, dass Sie die Fragebogen-internen Variablen nicht mit der Funktion `value()` auslesen können. Für Interview-Nummer und Referenz stehen aber die PHP-Funktionen [PHP-Funktion caseNumber\(\)](#) und [PHP-Funktion reference\(\)](#) zur Verfügung.

Details über die zusätzlichen Variablen stehen in der Anleitung: [Zusätzliche Variablen in der Datenausgabe](#)

### Section IN: Introduction

[IN02] Selection

Consent to survey

**x0** Consent to survey

1 = I agree and would like to continue

-9 = Not answered

**Section PL: Personal Lighting**

**[PL02]** Extended Selection

Light\_Activity

"Which of the following area(s) best describe(s) your light-related activity or activities?"

**x1** Number of selected option on the last level (options with no child-options below) or selected residual option (negative)

- 1 = I don't know.
- 2 = None of the above.

**x1a** Architectural and decorative lighting design (indoor/outdoor)

**x1b** Functional light planning (e.g. for streets and parking lots)

**x1c** Development of urban lighting concepts/master plans

**x1d** Light art/artistic work using light

**x1e** Marketing and/or sale of lighting products

**x1f** Lighting technology research and development

**x1g** Research on lighting (design, usage and/or effects)

**x1h** Environmental protection related to lighting

**x1i** Raising awareness for light pollution

**x1j** Politics related to lighting (in any form, at any level)

**x1k** Education related to lighting as professor/teacher

**x1l** Education related to lighting as student

**x1m** Other, please specify:

- 1 = Not checked
- 2 = Checked

**[PL03]** Dropdown Selection

Activity\_form\_alternative

**x1a1** Activity\_form\_alternative

**x1b1, x1c1, usw.**

- 1 = paid employment
- 2 = independent/freelance work
- 3 = professional qualification
- 4 = non-profit work
- 5 = hobby
- 1 = I don't know.
- 9 = Not answered

**[PL32]** Dropdown Selection

Activity\_years\_alternative

**x1a2** Activity\_years\_alternative

**x1b2, x1c2, usw.**

- 1 = 1 year
- 2 = 2 years
- 3 = 3 years
- 4 = 4 years
- 5 = 5 years
- 6 = 6 years
- 7 = 7 years
- 8 = 8 years
- 9 = 9 years
- usw.

- 1 = I don't know.
- 9 = Not answered

**[PL37]** Text Input

Activity\_open

**x1mtext**

[PL33] Extended Selection

Association

"Are you active in any groups, societies or associations that deal with lighting?"

**x2** Number of selected option on the last level (options with no child-options below) or selected residual option (negative)

-1 = No, I am not active in any groups, societies or associations that deal with lighting.

**x2a** Light engineering/illuminating engineering organizations

**x2a1** CIE – International Commission on Illumination.

**x2a2** IES – Illuminating Engineering Society

**x2a3** SLL – Society of Light and Lighting

**x2a4** Other light engineering organizations: **x2a4text**

**x2b** Lighting design organizations

**x2b1** IALD – International Association of Lighting Design

**x2b2** LSF – Concepteurs Lumière sans Frontières

**x2b3** Other lighting design organizations: **x2b3text**

**x2c** Dark sky organizations

**x2c1** IDA – International Dark-Sky Association

**x2c2** IDA local/regional chapter: **x2c2text**

**x2c3** Starlight Initiative

**x2c4** Other dark sky organizations: **x2c4text**

**x2d** Other environmental, scientific or civic organizations that deal with questions of lighting: **x2dtext**

1 = Not checked

2 = Checked

**[PL40]** Text Input  
 Place of activity\_1  
 "Where do you carry out your light-related projects/activities?"

**x3a1** Country 1  
**x3a2** Country 2  
**x3a3** Country 3  
**x3a4** Country 4  
**x3a5** Country 5

**x3a6** In more than five countries. Please only specify where you are mainly active

Free text

**[PL41]** Multiple Choice  
 Place of activity\_area

**x3b** Place of activity\_area: Residual option (negative) or number of selected options

-1 = I don't know.

**x3b1** Urban area(s)  
**x3b2** Suburban area(s)  
**x3b3** Rural area(s)  
**x3b4** Other, please specify

1 = Not checked  
 2 = Checked

**x3b4text** Other, please specify (free text)

Free text

**[PL35]** Scale (extremes labeled)  
 Trends  
 "To what extent do the following trends play a role in your light-related activitie(s)?"

**x4a** The introduction of LED lighting in outdoor spaces  
**x4b** The introduction of dynamic, digitally controlled and/or "smart" lighting systems  
**x4c** The provision of lighting infrastructures in areas that so far have none (reduction of "light poverty")  
**x4d** Energy saving strategies (for financial savings and/or climate change mitigation)  
**x4e** New regulations for lighting and lighting products  
**x4f** Increasing facade lighting (including media facades and architectural illuminations)  
**x4g** Increasing awareness of light pollution  
**x4h** Increase in integrated/holistic urban light planning (including master plans)  
**x4i** Encouragement of night-time tourism/economy (including light festivals)  
**x4j** Encouragement of dark-sky tourism (e.g. to dark sky parks)  
**x4k** Other, please specify: **x4ktext**

1 = no role at all  
 5 = very big role  
 -1 = I don't know  
 -9 = Not answered

**Section LP: Light Pollution**

**[LP01]** Selection  
**First encounter**  
 "When did you first hear of the concept of light pollution?"

---

**x5** First encounter  
 1 = Just now, through this survey  
 2 = %LP02%  
 3 = I don't know.  
 -9 = Not answered

**[LP02]** Dropdown Selection  
**First encounter\_year**

---

**x5year** First encounter\_year  
 1 = This year  
 2 = 1 year ago  
 3 = 2 years ago  
 4 = 3 years ago  
 5 = 4 years ago  
 6 = 5 years ago  
 7 = 6 years ago  
 8 = 7 years ago  
 9 = 8 years ago  
 usw.  
 -9=not answered

**[LP03]** Text Input  
**Info-Event\_open**  
 "Was there anything in particular that brought the topic to your awareness? (e.g. a specific event, project, ..."

---

**x6** [01]  
 Free text

**[LP04]** Selection  
**Threshold**  
 "On a very general level, what is your personal opinion regarding light pollution?"

---

**x7** Threshold  
 1 = Outdoor lighting is never pollution.  
 2 = All outdoor lighting after dark is a form of pollution.  
 3 = Whether outdoor lighting after dark is pollution or not depends on the situation.  
 4 = I don't know.  
 -9 = Not answered

**[LP05]** Multiple Choice  
 Threshold\_Situations  
 "In which situations do you consider lighting as pollution?"

**x8** Threshold\_Situations: Residual option (negative) or number of selected options  
 -1 = I don't know.

**x8a** light enters areas where it is unwanted.

**x8b** it produces glare.

**x8c** it obscures the visibility of the stars.

**x8d** it is colorful.

**x8e** it is moving or blinking.

**x8f** the color temperature of the light is above %LP06%.

**x8g** light sources are strong in the blue spectrum.

**x8h** lights are installed close to bodies of water.

**x8i** lights are installed in natural areas.

**x8j** lights are installed close to observatories.

**x8k** nobody is around to use the light.

**x8l** Other, please specify

1 = Not checked  
 2 = Checked

**x8ltext** Other, please specify (free text)

Free text

**[LP06]** Dropdown Selection  
 Threshold\_Situations\_Kelvin

**x8fkelvin** Threshold\_Situations\_Kelvin

1 = 2000 Kelvin  
 2 = 3000 Kelvin  
 3 = 4000 Kelvin  
 4 = 5000 Kelvin  
 5 = 6000 Kelvin  
 -9 = Not answered

**[LP08]** Scale (extremes labeled)  
 Problem dimensions  
 "In your opinion, why should light pollution be reduced? Please indicate how important you find the following..."

**x9a** People cannot experience natural darkness and star-filled skies

**x9b** People's sleep is negatively affected

**x9c** People are endangered due to glare/distraction

**x9d** Animals are negatively affected

**x9e** Ecosystems are negatively affected

**x9f** Waste of energy

**x9g** Others, please specify: **x9gtext**

1 = not at all important  
 5 = very important  
 -1 = I doubt this is an issue  
 -2 = I don't know  
 -9 = Not answered

<p><b>[LP10]</b> Selection Controversy "Based on your experience, can you give an example of a situation in which a person or group publicly complai..."</p>
<p><b>x10</b> Controversy 1 = Yes, I can give an example: 2 = No, I cannot give an example. -9 = Not answered</p> <p><b>x10text</b> Yes, I can give an example Free text</p>

**Section ME: Measures**

<p><b>[ME02]</b> Scale (extremes labeled) Recommendations "To which extent would you recommend the following measures to avoid/reduce light pollution?"</p>
<p><b>x11a</b> Use lighting concepts/integrated light planning <b>x11b</b> Apply more adequate technology <b>x11c</b> Promote best practice lighting projects, e.g. in municipalities <b>x11d</b> Improve voluntary standards for lighting applications and products <b>x11e</b> Create binding regulations and legal frameworks <b>x11f</b> Educate light planners and lighting designers <b>x11g</b> Educate and inform end users <b>x11h</b> Allow more people experience naturally dark nights (e.g. in dark sky parks) <b>x11i</b> Other, please specify: <b>x11itext</b></p> <p>1 = not at all 5 = very strongly -1 = I don't know -9 = Not answered</p>

to

<p><b>[ME05]</b> Text Input Recommendation_comp "Would you like to offer a short explanation for why you find specific measures more recommendable than others?"</p>
<p><b>x12</b> [01] Free text</p>

**[ME07]** Scale (extremes labeled)  
**Responsibility**  
 "In your opinion, to which degree are the following actor groups responsible for avoiding or reducing light p..."

**x13a** Politicians and public administrations  
**x13b** Standardization committees  
**x13c** Lighting designers/planners  
**x13d** Lighting manufacturers  
**x13e** Individual consumers  
**x13f** Others, please specify:**x13ftext**

1 = not at all responsible  
 5 = very much responsible  
 -1 = I don't know  
 -9 = Not answered

**[ME09]** Selection  
**Application\_open**  
 "Can you give an example of a lighting application that avoids or reduces light pollution in an ideal way?"

**x14** Application\_open  
 1 = Yes, an ideal example is...  
 2 = I cannot give an example.  
 -9 = Not answered

**x14text** Yes, an ideal example is...  
 Free text

**[ME10]** Selection  
**Reduction-action\_open**  
 "In your light-related activity, do you actively take precautions/action to avoid or reduce light pollution?"

**x15** Reduction-action\_open  
 1 = If yes, please specify:  
 2 = No, I don't.  
 3 = I don't know.  
 -9 = Not answered

**x15text** If yes, please specify  
 Free text

**[ME11]** Selection  
**Clashing\_interests\_open**  
 "Based on your experience, when do demands for lighting clash with the aim to prevent light pollution?"

**x16** Clashing\_interests\_open  
 1 = Such conflicting interests occur when...  
 2 = I have not experienced such conflicting interests.  
 3 = I don't know.  
 -9 = Not answered

**x16text** Such conflicting interests occur when...  
 Free text



**[ME13]** Scale (extremes labeled)  
 Obstacles  
 "Based on your experience, how relevant are the following potential obstacles to avoiding/reducing light poll..."

**x17a** Avoiding/reducing light pollution raises concerns about public safety.

**x17b** In lighting projects, efforts to avoid/reduce light pollution are low on the priority list.

**x17c** Avoiding/reducing light pollution means higher investment costs.

**x17d** Lighting manufacturers do not offer the right products for avoiding/reducing light pollution.

**x17e** Existing lighting standards make it difficult to avoid/reduce light pollution.

**x17f** People are not aware that lighting can have negative effects.

**x17g** It is hard to define when lighting is pollution.

**x17h** Light-emitting diodes (LEDs) are introduced without consideration of negative side-effects.

**x17i** Your own statement: **x17itext**

1 = not at all relevant  
 5 = very relevant  
 -1 = I don't know  
 -9 = Not answered

**[ME16]** Multiple Choice  
 LEDs  
 "How do you see the relationship between LED lighting and light pollution?"

**x18** LEDs: Residual option (negative) or number of selected options  
 -1 = LED lighting does not make a difference regarding light pollution.  
 -2 = I don't know.

**x18a** It contributes to more light pollution. Please specify: **x18atext**

**x18b** It contributes to less light pollution. Please specify: **x18btext**

1 = Not checked  
 2 = Checked

**[ME17]** Selection  
 Vision\_open  
 "Do you have a vision for how to achieve the ideal of "the right light at the right place at the right time" ..."

**x19** Vision\_open  
 1 = Yes, my vision is:  
 2 = I don't have a vision.  
 3 = I don't know.  
 -9 = Not answered

**x19text** Yes, my vision is  
 Free text

**[ME19]** Text Input  
 Comment\_A  
 "Is there anything you would like to add on the topic of light pollution?"

**x20** [01]  
 Free text

**[ME20]** Text Input  
 Comment\_B  
 "Are there any questions or aspects that should, in your opinion, be discussed in more detail (e.g. in our up..."

**x21** [01]  
 Free text

## Section SD: Socio Demography

**[SD02]** Text Input  
Place of residence\_1  
"Where do you currently live?"

**x22a** Postal code  
**x22b** Country  
Free text

**[SD03]** Selection  
Place of residence\_area

**x22c** Place of residence\_area  
3 = urban area                      2 = suburban area  
1 = rural area                      4 = Other, please specify:  
5 = I don't know                    -9 = not answered

**x22ctext** Other, please specify  
Free text

**[SD04]** Selection  
Light surroundings  
"If you think of nighttime in your everyday surroundings, how would you describe the situation during cloudle..."

**x23** Light surroundings  
1 = I can see the Milky Way and many stars.  
2 = I can see some stars, but not the Milky Way.  
3 = I can't see any stars.  
4 = I don't know.  
-9 = Not answered

**[SD08]** Selection  
Main-occupation\_Alternative  
"Which of the initially mentioned light-related activities is your main occupation/your job?"

**x24** Main-occupation\_Alternative  
1 = My main occupation/job is: %SD07%  
2 = None of the above, my main occupation/job is:  
3 = Other, please specify:  
-9 = Not answered  
**x24b** None of the above, my main occupation/job is  
**x24c** Other, please specify  
Free text

**[SD07]** Dropdown Selection  
Main-activity\_drop-down

**x24a** Main-activity\_drop-down  
1 = Architectural and decorative lighting design (indoor/outdoor)  
2 = Functional light planning (e.g. for streets and parking lots)  
3 = Development of urban lighting concepts/master plans  
4 = Light art/artistic work using light  
5 = Marketing and/or sale of lighting products  
6 = Lighting technology research and development  
7 = Research on lighting (design, usage and/or effects)  
8 = Environmental protection related to lighting  
9 = Raising awareness for light pollution  
10 = Politics related to lighting (in any form, at any level)  
11 = Education related to lighting (as professor/teacher)  
12 = Education related to lighting (as student)  
-9 = Not answered

**[SD09]** Text Input  
Professional background  
"What did you study or learn in your professional training?"

**x25** [01]  
Free text

**[SD10]** Extended Selection  
 Age  
 "In which year were you born?"

	37 = 1982	54 = 1965	72 = 1947	86 = 1933	
	38 = 1981	55 = 1964	73 = 1946	87 = 1932	
	39 = 1980	56 = 1963	74 = 1945	88 = 1931	
<b>x26</b> Age	40 = 1979	57 = 1962	75 = 1944	89 = 1930	
1 = 2018	41 = 1978	58 = 1961	76 = 1943	90 = 1929	
2 = 2017	42 = 1977	59 = 1960	77 = 1942	91 = 1928	
3 = 2016	43 = 1976	60 = 1959	78 = 1941	92 = 1927	
4 = 2015	44 = 1975	61 = 1958	79 = 1940	93 = 1926	-9 = Not answered
5 = 2014	45 = 1974	62 = 1957	80 = 1939	94 = 1925	
6 = 2013	46 = 1973	63 = 1956	81 = 1938	95 = 1924	
7 = 2012	47 = 1972	64 = 1955	82 = 1937	96 = 1923	
8 = 2011	48 = 1971	65 = 1954	83 = 1936	97 = 1922	
9 = 2010	49 = 1970	66 = 1953	84 = 1935	98 = 1921	
	19 = 2000	50 = 1969	67 = 1952	99 = 1920	
	20 = 1999	51 = 1968	68 = 1951		
	21 = 1998	52 = 1967	69 = 1950		
	22 = 1997	53 = 1966	70 = 1949		
	23 = 1996		71 = 1948		
	24 = 1995				
	25 = 1994				
	26 = 1993				

**[SD11]** Selection  
 Sex/Gender  
 "Are you...?"

**x27** Sex/Gender

- 1 = Female
- 2 = Male
- 3 = Other
- 9 = Not answered

**Section EX: Exit and good bye**

**[EX02]** Extended Selection  
 Consent\_1  
 "We plan to invite some participants of this survey to take part in our expert group discussions. We also off..."

**x28** Number of selected option on the last level (options with no child-options below) or selected residual option (negative)  
 -1 = No, thank you.

**x28a** I would be interested in participating in one of the group discussions.

**EX02x02** My name is: **x28aname**  
**EX02x03** My Email is: **x28amail**

**x28b** I would like to receive further information about the project.

**EX02x05** My name is (if not already indicated): **x28bname**  
**EX02x06** My Email is (if not already indicated): **x28bmail**

- 1 = Not checked
- 2 = Checked

**[EX05]** Text Input  
 Exit\_01  
 "If you have any further comments on this survey or project, please feel free to share your thoughts here:"

**x29** [01]  
 Free text