

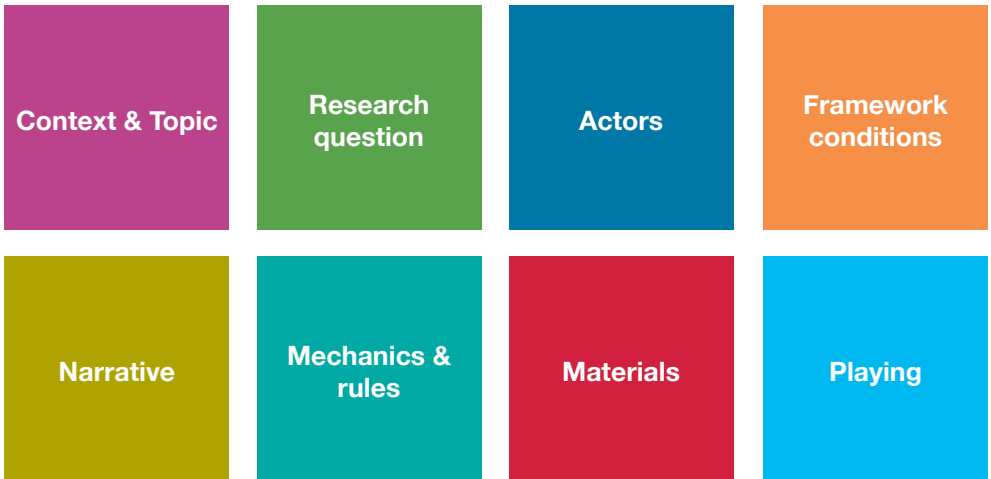


Design Game Guide



Overview

This guide supports you in designing an individual Design Game tailored to the context of your project, lab, or case study. This set of cards guides you through the design process and helps you to create your Design Game by defining the characteristics of your game by elaborating contributions to the following key aspects:



For each of these categories, a set of cards including further explanations and detailed questions is provided to support and guide you while designing your game. In the blank game box, a collection of materials can be found which can be used to inspire the designing process and for playing the resulting game.

Have fun creating your own innovative Design Game for your project, lab, or case study.



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Design Game Guide

Context & Topic



Context & Topic

This category aims to define the context and topic of a particular Design Game. The context is usually bound to the context of the project, lab or case study the Design Game is used in and can address a suitable topic for applying a Design Game.

Topics and contexts for applying a Design Game comprise areas where real actors are involved, and an understanding of their perspectives is crucial. Design Games are played by a group of real players. It gathers different stakeholders in a comfortable setting to discuss their perspectives towards a specific topic while playing the Design Game.

The characteristics of the context and topic - a subarea of a project or case study - should support playful approaches. As the Design Game is designed to be actually played and generate insights through playing, the topic should allow a playful approach.

A design game should be applied in contexts containing open issues, where the inspiration for possible solutions can be gained through the playful exchange of different perspectives.

Since a Design Game mainly produces qualitative data, it should be used for topics where such data is valuable. Contexts and topics where it is important to elaborate an understanding of the users' behavior and their affordances appear to be more appropriate than contexts that can be accessed by quantitative measures.

The access, exchange, and understanding of the views and perspectives of different stakeholders are core elements of Design Games. Hence the context needs to comprise various stakeholders.

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SUMMARY: The goal of the Design Game

Summarize your contributions from the cards of this category to define the goal of your Design Game.

Quick check:

- Topic for real actors
- Issue is still open
- Different perspectives accessible
- Playful approach possible
- Qualitative data suitably



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Research question



Research question

Within this category, the research question of the Design Game is defined. This question is mostly derived from research questions of the project or case study the Design Game is part of. Although the research question of the Design Game is related to overall research questions, it needs to fit the actual context of the Design Game.

First of all, it needs to be identified for which aspects of the project or case study the application of a Design Game is a promising approach and which existing research questions are addressing the context and topic the Design Game is going to be applied for.

As the Design Game is highly dependent on the input of different perspectives, this aspect needs to be covered by the research question respectively. The most relevant stakeholders should be addressed by the research question of the Design Game.

In addition to relevant aspects of the project and the stakeholders, a particular topic should be addressed within the research question of the Design Game. This topic narrows down the actual goal of the Design Game and provides information about specific issues to be discussed in the game.

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Actors



Actors

This category defines all actors, roles, and people somehow involved in the Design Game.

The most important actors are the stakeholders addressed by the research question. Stakeholders might not be equivalent to a person who is actually playing the game. Furthermore, stakeholders could comprise companies, organizations, governments, etc. It is crucial to identify the stakeholders addressed by the game and to describe the perspectives they are supposed to contribute.

Players are real people who are actually playing one or more game rounds. Players are representatives of stakeholders or user groups. Depending on the game's goal, players can contribute various perspectives (government, user, manager, etc.) or be part of one specific group (e.g., different users).

Additional actors might be needed to successfully play a Design Game, such as facilitators, moderators, or people to document the play. Identify these roles explicitly and describe the responsibilities, duties, and activities of these roles.

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Framework conditions



Framework conditions

This category describes a specific Design Game setting and identifies how the gaming situation is characterized.

A relevant framework condition is the number of people involved. Depending on the goal, the research question, and the context of the Design Game, it has to be defined if there is a minimum number of players required and the maximum of active players.

The Design Game needs to have an estimated gaming duration. Thereby researchers can assess the amount of data that is supposed to be collected within one game round. The players are able to schedule their participation when there is an estimated period of time in which they have to be present.

Another relevant aspect is the location where the game is played. Depending on the type of the game, the number of involved people, and the context of the game, an appropriate location needs to be specified that fulfills the requirements of the Design Game in terms of its size, available equipment (e.g., chairs, tables, etc.), gaming environment (indoors or outdoors), etc.

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SUMMARY: Gaming environment

Summarize your contributions from the cards of this category to get an detailed description of the framework conditions in your gaming environment.

Quick check:

Number of participants

Game duration

Locations for playing



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Narrative



Narrative

The narrative describes the story of the game and the paths that can be taken during playing. It frames the debate, discussion, and possible actions for the players in the game.

At the beginning of the game, there needs to be a starting point that is very clear for all players. The starting point is preset and marks the start of a journey through the game where the players influence the outcome.

To be able to influence the outcome, the players are confronted with specific circumstances or conditions where they have the chance to make a decision and form the journey of the game according to their perspective. These conditions and circumstances are part of the narrative and need to be elaborated.

The journey of the story is formed by the overall narrative, the occurring conditions, and actions to be set by the players. These elements need to be designed in a way that they are open enough to allow the player to move and be creative, but they also need to provide a certain frame to ensure the goal of the game can be reached.

The scope of possible decisions that can be made by the players is a core element of the narrative. Players need to be able to express their perspectives regarding their roles but also to provide new, innovative, creative decisions and influence the journey through the game.

Since an essential element of Designs Games is the exchange of perspectives, players need to interact with each other, discuss and debate. The narrative should support - or even force - the interaction between players.

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Mechanics and rules



Mechanics and rules

The mechanics and rules of a Design Game represent the formalization of the narrative. The entire story, conditions, and possible actions are set to a formal framework that builds the rules of the game.

First, the process of the game needs to be defined from the starting point to the end. It needs to be specified who starts, how a player moves on, how the turn-taking works, etc.

Next, it needs to be defined how specific situations are triggered. The trigger can be provoked by players, by a reaction to a specific action, or arbitrarily (e.g., throwing a dice), etc. The mechanics of the design game describe which aspects have to coincide that a certain condition or situation occurs.

Once a particular condition occurs, the mechanics define the possibilities of the players to make decisions and set specific actions. Here, the formalization of the rules needs to be done in a way that supports the player in making clear decisions but also enables the player to be creative. The player has to know the options but not be put in a too-tight corset. Once an action is set by a player, the rules need to give an orientation on how the game continues.

Since a game can not run infinitely, conditions need to be defined that end the game. This can be done by generating a winner, by course of time, by reaching a certain number of rounds, by the decision of the moderator, etc.

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Materials



Materials

This category encompasses the collection of the materials needed for playing the Design Game. Some materials are already provided in the game box, and a subset of these materials can be chosen for your Design Game. But there is also the possibility to adapt or complement these materials or design new ones that fulfill the needs of the Design Game.

To be able to choose appropriate materials, the type of the game needs to be defined. A Design Game can follow the principles of a specific game type (e.g., board game, card game, role play) or include elements of various kinds.

In the context of the type, the materials to represent the players (tokens, cards, etc.) and the materials to move (e.g., throwing a dice) need to be defined. Also, materials for representing actions can be chosen or designed, and supporting materials to represent options and conditions (unique cards, tokens, etc.).

To frame the gaming situation, the Design Game needs to support a common ground for players where the game actually takes place, and the players gather. This can be a set of cards and a table or a gameboard to gather around.

For designing individual materials, software for graphic design such as Adobe Illustrator is recommended to be used. The designs can be printed on labels and be pasted on blank material such as cards, dices, or tokens. 3D-printing technology can be used to realize individual playing pieces. With the open-source Tool „PosteRazor“ (<http://posterazor.sourceforge.net>), foldable gameboards can be created.

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Playing



Playing

This category focuses on playing the game. It describe needs to be set up, what needs to be considered throughout and after playing the Design Game and how the game is documented.

Before the players begin to play the game needs to be prepared. Describe which elements of the game need to be prepared to get to the starting point of the game and enable the players to play (e.g., handing out playing pieces, shuffling cards). Give a description of the start setting and provide a list of materials the players and facilitators need to start the game.

Since the goal of a Design Game is to get insights into the perspective of various stakeholders, the playing rounds need to be documented. Specify how the game is documented and which additional staff is needed to support proper documentation. Some materials of the game can be used for documentation to (e.g. cards where players take notes on) and need to be preserved after playing. Identify this material and make sure to replace it after the game to be able to start the next round.

Identify how the game terminates and describe the situations that may occur to end the game. Design Games can be terminated following the mechanics and rules of the game or by other unexpected circumstances (e.g. players are refusing to play or not interacting anymore).

To be able to improve the Design Game players should be asked for feedback. Define a concept for getting feedback and elaborate which feedback is valuable and when the players are asked for (e.g., at the end of the game).

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