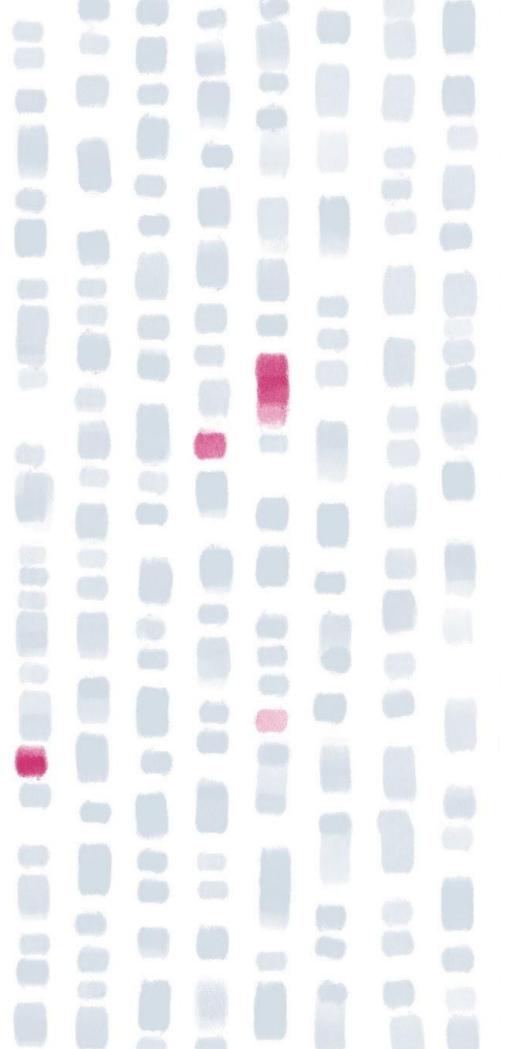
The Data Cards Playbook

A toolkit for purposeful and people-centric dataset documentation for transparency in AI systems.

https://pair-code.github.io/datacardsplaybook/

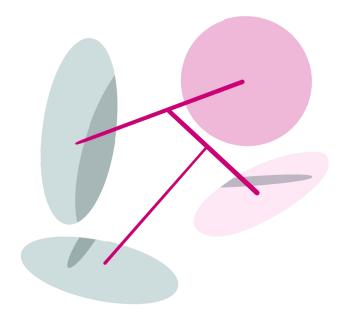
#datacardsplaybook





THE DATA CARDS PLAYBOOK

Introduction 01 Ask **02 Inspect 03 Answer** 04 Audit



THE DATA CARDS PLAYBOOK

Scopes Brainstorm

IN THIS SECTION

Convert your lenses into scopes – questions that will become the building blocks of your Data Card(s).

INSTRUCTIONS Br

Break down each lens into sets of telescopic-periscopic-microscopic questions.

OUTCOMES Questions that that will be prompts for producers to provide information that is most useful for agents.

ACTIVITY LEVEL Moderate

Types of scopes

Telescopic

Questions about attributes or characteristics commonly found across multiple datasets.

For example: Does this dataset contain S/PII?

Data Cards with just telescopes will describe obvious and not add any distinct value, but telescopes tell agents where to begin looking.

Periscopic

Questions about attributes or observations specific to the dataset being documented.

For example: Which features in the dataset contain S/PII?

Data Cards with just periscopes can get overly technical, without any details on context, relevance, or importance.

Microscopic

Questions about unobservable aspects of dataset(s), such as decisions, processes, impact.

For example: How was **S/PII** handled in this dataset?

If we only use microscopes, we can easily get lost in the details, and lose sight of the bigger picture.

()

		TELESCOPIC	PERISCOPIC	MICROS
Desc	ription	Characteristics	Observations	Explanat
Inpu	ıt Type	Yes/No or multiple choice responses	Key-Value pairs or short descriptions	Detailed descript
	Format	Tags, Chips	Text, Tables, and Visualizations w/ Links	Paragrap Visualiza
С	ontent	Universal attributes of datasets	Unique, observable characteristics of the dataset	Rationale policies
	Utility	Find information quickly; Indexical – search or scan Keywords, descriptors	Facilitate quick assessments Tactical – what statements	Provide to additi Rational why and
	Value	Provide an overview and help habituate agents in the Data Card. Make Data Cards easy to index in repositories	Often reproducible from the dataset, prevent re-work, and add more context for agents when stacked	Unobser consider agents, I to produ

SCOPIC

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As a data scientist, I want to know about the structure of the dataset, so I ask...

... what is the data format? ... are there any media in the dataset?

... how many features are in the dataset? ... how many features are engineered?

... which features are strongly correlated and why? Was this intentional?

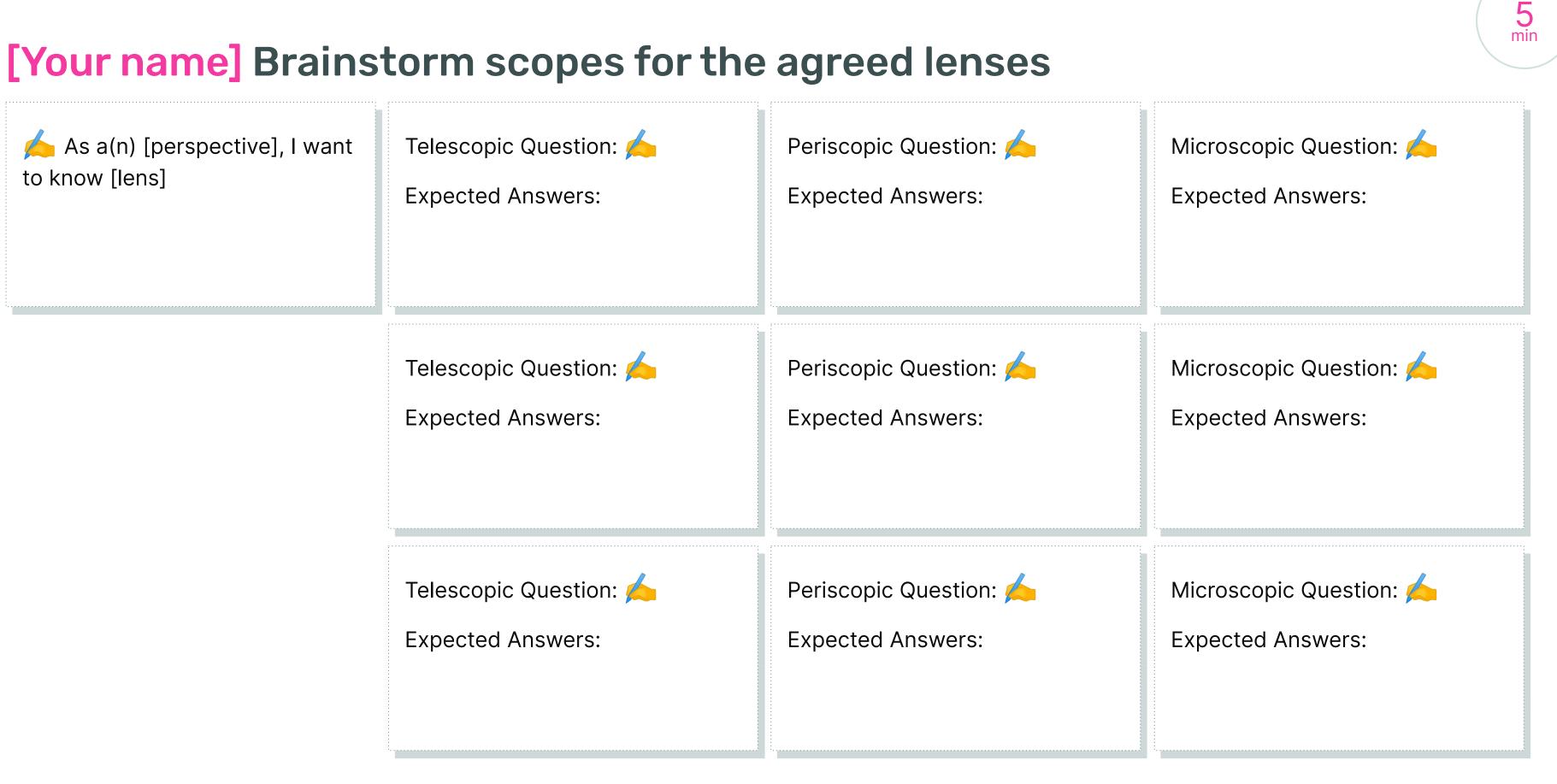
microscopic





periscopic







Cluster your scopes





CLUSTER NAME

6 CLUSTER NAME

Checklist

YOU SHOULD NOW HAVE

- Sets of questions that probe different facets of the dataset \checkmark
- A shared intuition around how questions are related to each other
- Well-organized scopes that are building blocks for your Data Card
- Expectations around what constitutes a response to the question \checkmark



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<u>The Data Cards Playbook</u> is an adaptable toolkit of participatory activities, conceptual frameworks, and guidance that support Responsible AI practices for transparency in dataset documentation.

If you've adapted, implemented, or have feedback for this guidance, we'd love to hear from you at https://github.com/pair-code/datacardsplaybook .

Find the complete playbook at <u>https://pair-code.github.io/datacardsplaybook </u>7





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