<u>Criteria to emancipate content providers from obsession with specifications for content</u> preservation and propositions as guidelines on making content for easy reuse in the future

The Present Situation

Many specifications have been proposed by institutions or authorities. However, no specification has ensured content preservation for the last 70 years.

The Way to solve it

First of all, we accept this fact as scientists, then we start to seek <u>a new way to share digital</u> content diachronically except in a normative, controlling, or prescriptive way.

WHY?

(1) Naive Understanding of Preservation

Four Types of Preservation

- 1.Living Preservation
- 2. Functional Preservation
- **3.**Appearance Preservation
- **4.**Content Preservation
- Existence Preservation

Which preservation is a target of the specification?

Too hard to implement

easy to implement

⁽²⁾Misunderstanding of Ontology

The phantom of a common ontology

: Difficulty of defining the conceptual world

e.g. "museum" 🔁

: A definition of a concept varies in people, cultures, languages, and the days.

3Obscure Targets of Preservation

Existence of digital objects cannot be confirmed tangibly.

It <u>must be confirmed categorically or conceptually</u>.

- A Category : <u>Data Management Phases</u>
- i. raw data

ii.content factory

- iii.public platform
- iv.service platform

Which stage is a preservation target at?

- to preserve.
- e.g.
- a) A standard is a Procrustean bed.
- b)A standard will be an obstacle to a new idea.
- c)A standard will decay and be overcome by a new standard, the conversion of
- which is not usually considered in defining it.

Kazushi Ohya ohyakazushi@gmail.com Tsurumi University JAPAN

No	Silver	Bullet(=	No	normative	way)	
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an idea

In order to preserve digital objects diachronically, we have to convert them into a new one in the future. We must make a digital object in paying close attention to future data conversion.

- Q1. Preservation vs. Expressive Power
- Usually, digital contents with highly expressive power is hard or almost impossible Should we give up preservation of such a content, e.g. digital exhibition? Or, should we stick to preservation of any kinds of digital contents? Do we need an expressive power in digital contents at Museum?

Q2. Multiplicity of definitions is vice?

Standards have been sought to reduce a number of local definitions. However, is multiplicity of definitions itself really bad or uncomfortable?

Q3. Static vs. Dynamic Process

- Digital objects conforming with a standard specification will be used as they are in the future without any conversion. Is it true?
- Digital objects made up with original specifications for long-term preservation will
- be converted into other formats in the future.
- Any digital objects will be converted into others' in the future.
- Which data is easy to convert into another format, data in standard or data made up with a consideration for preservation?

Propositions: for data preservation

- P.2 Check the type of preservation(1-5) and data management phases(i-iv). P.3 Consider the reusability of digital contents as much as possible.
- of easiness of data conversion must be checked.
- P.4 In the case of using a standard specification, the usability or the extent
- P.5 As for a data structure, it should be simple or flat. For example, in the case of a tree structure, the structure should be flat as much as possible. The list of pair data(e.g. key-value) is the best.

- P.6 A link structures is harm to data conversion. A so-called standoff-style data structure ensures only a uni-directional conversion.
- P.7 Digital contents with highly expressive power devastates data
- preservation.

A Descriptive Way for Preservation

In the case of using a standard specification or defining original specifications, we should make decisions for a easy way to convert it into a new one according to the future requirements.

We cannot define the way as a rule (because it is not a normative way). However, we can make a list of propositions as stances, styles, or philosophy to making digital contents.

P.1 Standard specification can be disregarded.

P.8 Make descriptive metadata as much as possible.