

BRINGING ORDER TO CHAOS

Object Properties

THE CHALLENGE

SO MANY PROPERTIES ON AN OBJECT



Reappraisal of leading symptom cases

Best possible decisions even with incomplete information

Status: Offline Type: Learning Module ILIAS

Availability: 26. Feb 2023, 12:00 - 31. Aug 2023, 13:00



Learning Progress:

Comments: 1 Notes: 1

Badok

Veterinary

Preconditions that need to be fulfilled to access this object: » [Hide](#)

You have to fulfill all of the following preconditions:



Aufgabe

pdf 24.6 KB 08. Nov 2022, 13:43 Page Count: 1

Required precondition: Visited

- the title
- a description
- a variety of dates and deadlines
- icons
- a learning progress
- tags
- comments
- previews
- and much more...

Properties can pile up...

...so let's try grouping and sorting...

...and see what changes.

EXAMPLE 1: WHY CAN'T I REGISTER?



123456-FS2023: VL MG: Unboxed. Die Präsentation von Bewegtbildern in Kunstaussstellungen



Registration Begin: 01. Mar 2023, 08:00 Free places: 25

Period of Event: 09. Mar 2023, 14:15 - 01. Jun 2023, 16:00

Availability: Today, 08:15 - 31. Jul 2023, 18:00

Learning Progress: 

Comments: 1 Notes: 1

Art

Museum

Preconditions that need to be fulfilled to access this object: [» Hide](#)

You have to fulfill all of the following preconditions:



Test

Required precondition: Finished



Preconditions

available Today, 08:15 - 31. Jul 2023, 18:00



Registration Begin: 01. Mar 2023, 08:00

123456-FS2023: VL MG: Unboxed. Die Präsentation von Bewegtbildern in Kunstaussstellungen



not yet started

Period of Event: 09. Mar 2023, 14:15 - 01. Jun 2023, 16:00

Free places: 25



EXAMPLE 2: ANYTHING NEW?



K&W Forum



In this forum, you may ask questions about exercises or lecture content, answer questions about exercises or lecture content (as long as you are confident that the answers are correct), and ask questions outside of forum hours.

Articles (Unread): 7 (3) New Articles: 3

Latest Article: [What happened in the last event? I ha...](#) from Yvonne Seiler (seiler), Today, 12:56

Availability: Yesterday, 16:00 - 16. Mar 2023, 16:00

Learning Progress:

Comments: 2 Notes: 1

[Boire](#) [Boisson](#) [Buchette](#) [Fabrik](#) [Fun](#) [Fusion](#)



New Articles: 3



K&W Forum

completed

Availability: Yesterday, 16:00 - 16. Mar 2023, 16:00

In this forum, you may ask questions about exercises or lecture content, answer questions about exercises or lecture content (as long as you are confident that the answers are correct), and ask questions outside of forum hours.

Articles (Unread): 7 (3)

Latest Article: [What happened in the last event? I ha...](#) from Yvonne Seiler (seiler), Today, 12:56



EXAMPLE 3: USER INTERACTION?



K&W Forum



In this forum, you may ask questions about exercises or lecture content, answer questions about exercises or lecture content (as long as you are confident that the answers are correct), and ask questions outside of forum hours.

Articles (Unread): 7 (3) New Articles: 3

Latest Article: [What happened in the last event? I ha...](#) from Yvonne Seiler (seiler), Today, 12:56

Availability: Yesterday, 16:00 - 16. Mar 2023, 16:00

Learning Progress:

Comments: 2 Notes: 1

[Boire](#) [Boisson](#) [Buchette](#) [Fabrik](#) [Fun](#) [Fusion](#)



New Articles: 3



K&W Forum

completed

Availability: Yesterday, 16:00 - 16. Mar 2023, 16:00

In this forum, you may ask questions about exercises or lecture content, answer questions about exercises or lecture content (as long as you are confident that the answers are correct), and ask questions outside of forum hours.

Articles (Unread): 7 (3)

Latest Article: [What happened in the last event? I ha...](#) from Yvonne Seiler (seiler), Today, 12:56




MINIMAL ITEMS BARELY CHANGE



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Learning Progress: 



123456-FS2023: VL MG: Unboxed. Die Präsentation von Bewegtbildern in Kunstaussstellungen



 not yet started

WHY LOOK INTO THIS NOW?

Repository is switching from legacy components to UI components

- Transfer Repository Objects to KS Items
- Streamline Object Properties

THE APPROACH TO FIND GROUPINGS

CONSIDERING USER INTENT

- most of the time the user is not an admin, but a learner

UX Guide for Repository Object Properties

General User Intents

- Managing multiple objects
- Making a quick pick

- admin: wants to see all properties for managing and sorting
- normal user (learner): trying to find something quickly

MAKING A QUICK PICK

- one clear choice for one expected object
- glancing at one or two of its properties
- action shown as the most prominent usually the reason why user came to this view

WORKSHOP

COLLECTION OF POSSIBLE PROPERTIES

- Very helpful tables in FR [Streamline Object Properties](#)
- such collections often focus on data types

PROPERTY TYPES VS SEMANTIC GROUP

- Type: Date
- Possibly different Semantic Groups:
 - Event Date
 - Registration
 - Availability
 - Deadline

FINDING THE SEMANTIC GROUPS

- Which properties belong together for the most optimal fulfillment of the user intent?
- same kind of information close together
- user learns default order and position

- hypothesis - argumentation - rearrangement / acceptance (several discussion rounds)

Wahrnehmungs-
reihenfolge

MAKING A
QUICK CHOICE

Blocking
PRECONDITION

main
identifiziert
(meistens Titel)

secondary
identifiziert

LEADING
ATTRIBUTE
PROPERTIES

ALL OTHER
← (PROPERTIES)

REACTION
FOCUS

custom
meta ?
hook into groups

main
info-
identifiziert

Titel

Icon

Vorstellung-
geburtsdatum

Thumbnail
(Kachel)

Vorschau
(Datei)

Persönlicher
Verbindungs-
status

Zertifikat

Lernfortschritt

Abgabefrist

Verfügbarkeit

Verfügbar-
keit

Verbindungs-
zeit

zeitl.
Beitrag

Limitation
Beitrag
(beurteilt wird)

main
descriptors

Beschreibung

Adress-
Tags

grafische
Darstellung
Reactions

Kommentare

Rating

Add to
Favorites

Notizen

Tags
(Datei, Name, & andere)

generated
meta-info

(Typ)

offline
Sichtbarkeit

Anzahl
Seiten
(Datei)

child
object

Fallback

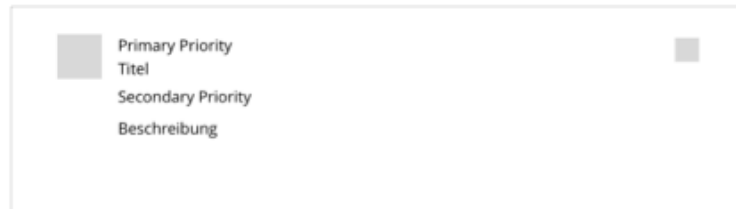
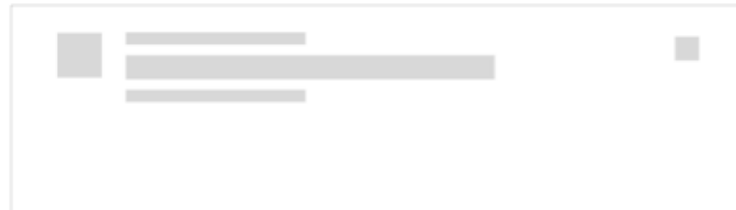
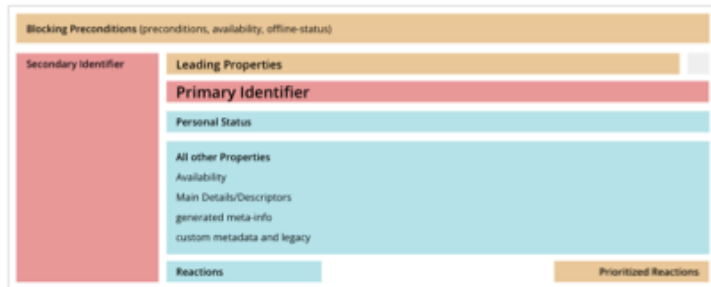
- Product: Matrix with semantic groups (horizontal) and order of their necessity (vertical)
- Additional: Arguments quickly showed that special mechanisms are needed (priority areas)

PRIORITY AREAS

- make important information jump out visually
- e.g. user can't open a course, would immediately like to know why
- really quick decisions become possible

TESTING WITH MOCKUPS

- Initial wireframes give a sense that the division of semantic groups works for different objects (file, exercise, forum, group)



01.01.2023 - 31.12.2023 (Verfügbarkeit) offline Kurs

01.02.2023 bis 31.06.2023

Einführung in die Teilchenphysik

Die Teilchenphysik widmet sich als Disziplin der Physik der Erforschung der Teilchen, insbesondere der Elementarteilchen.

Anmeldezeitraum: 01.01.2023 - 31.01.2023

Freie Plätze: 8

Lernfortschritt:

Fallback, Fallback, Fallback, Fallback

Preconditions available Today, 08:15 - 31. Jul 2023, 18:00

Registration Begin: 01. Mar 2023, 08:00

123456-FS2023: VL MG: Unboxed. Die Präsentation von Bewegtbildern in Kunstaustellungen

not yet started

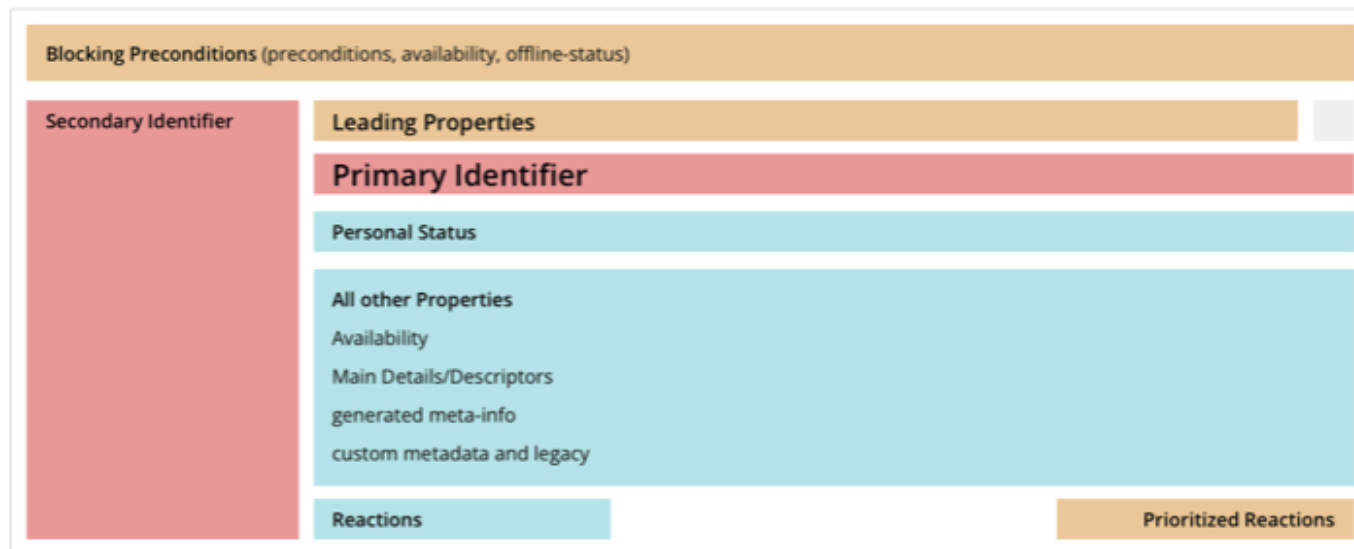
Period of Event: 09. Mar 2023, 14:15 - 01. Jun 2023, 16:00

Free places: 25

FEEDBACK AND TWEAKING

- Naming of semantic groups and priority areas was revised for a better understanding and differentiation from each other
- Think through different workflows and representations (f.e. what happens if a property is not present)

- Representation for different screen sizes were tried (xlarge, large, small)



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not yet started

Period of Event: 09. Mar 2023, 14:15 - 01. Jun 2023, 16:00
Free places: 25

Preconditions available 27. Feb 2023, 14:05 - 06. Mar 2023, 14:05

Registration Begin: 01. Mar 2023, 08:00
 123456-FS2023: VL MG: Unboxed. Die Präsentation von Bewegtbildern in Kunstaustellungen

not yet started

Registration End: 07. Mar 2023, 14:10
Free places: 10

- current classification allows future development of item and other representations

CONCLUSION

- What can we do to help the user make a decision quickly based on the properties on an item?
 - Semantic Groups
 - Priority Areas
 - Leading Properties

RESULT: SEMANTIC GROUPS

- Primary & Secondary Identifier (title, tile image, icon, event date)
- Personal Status (learning progress, membership)
- Availability (availability time frame, seats left)
- Details (description, file type and size, other meta-data)
- Reactions (comments, star-rating)

RESULT: PRIORITY AREAS

- Blocking Availability Condition (filled from Availability Group)
- Main Details (filled from Details Group)
- Prioritized Reaction (filled from Reactions Group)
- Leading Properties (filled from any group)

LEADING PROPERTIES

- anticipating different user intents is now possible
- there are good reasons for it, but not mandatory
- exact logic has to be developed case by case
 - for courses: event date
 - for files: file type and size

CODING

- just examples and ideas
- implementation details are yet to be determined

- flat hierarchy
- DOM order = accessible screen reader order
- Re-ordering with CSS grid or flexbox = best order and weighting for seeing users

- right now all properties are placed as a listing into “withProperties”

- in the future properties could be sorted into the different groups
 - PrimaryIdentifier
 - SecondaryIdentifier
 - inGroupPersonalStatus
 - inGroupAvailability
 - inGroupDetails
 - inGroupReaction

- priority areas could pull from these groups

```
$crs_item = f('title', 'icon') //define primary and secondary  
->inGroupPersonalStatus('progress', 'membership')  
    ->withLeadingProperty('progress')  
->inGroupAvailability('date', 'seats', 'preconditions')  
    ->withBlockingAvailabilityCondition('preconditions')
```

SEMANTIC GROUPING BRINGS MORE OPPORTUNITIES

- on other UI components, views and sidebars?
- filter by group?

OUTLOOK

- Repository object MUST be replaced by UI item soon
- Finalizing design suggestion for Delos
- Finalizing PR -> Discussion/Refinement -> Implementation of UI Repository Item

