

Intro

① JS é muito usado

→ github

→ stackoverflow

2.1

All JS engines must implement the std.

They must be consistent with the std.

② JS é muito o-ghost

2.2 slide as filhas de folhas

✗

③ Test262

O que é?

→ conformance test suite

- n° de tests (approx)

How can we check if JS engines are consistent with the std?

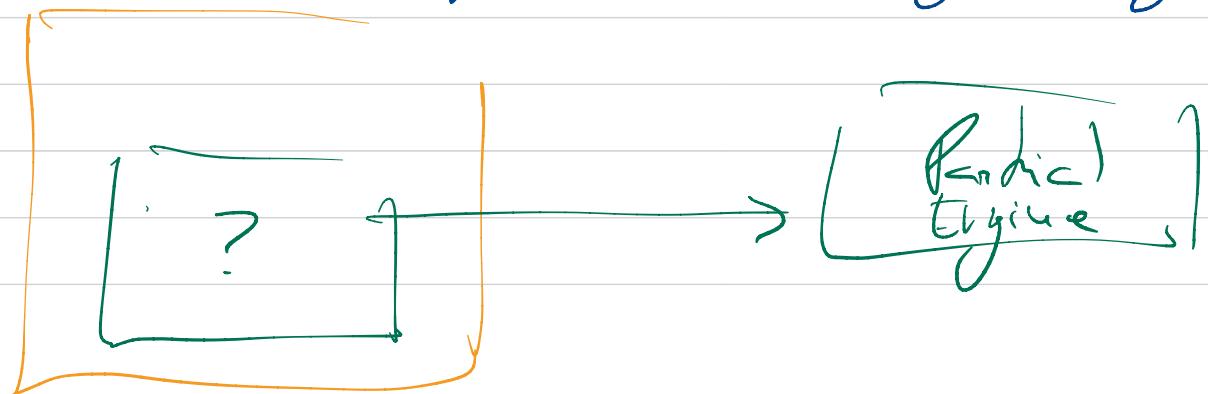
④

FAS / Proble-

- There are many partial JS implementations
 - academic engines
 - ongoing industrial engines
 - etc

• How does one select the "famous" JS engines?

40k

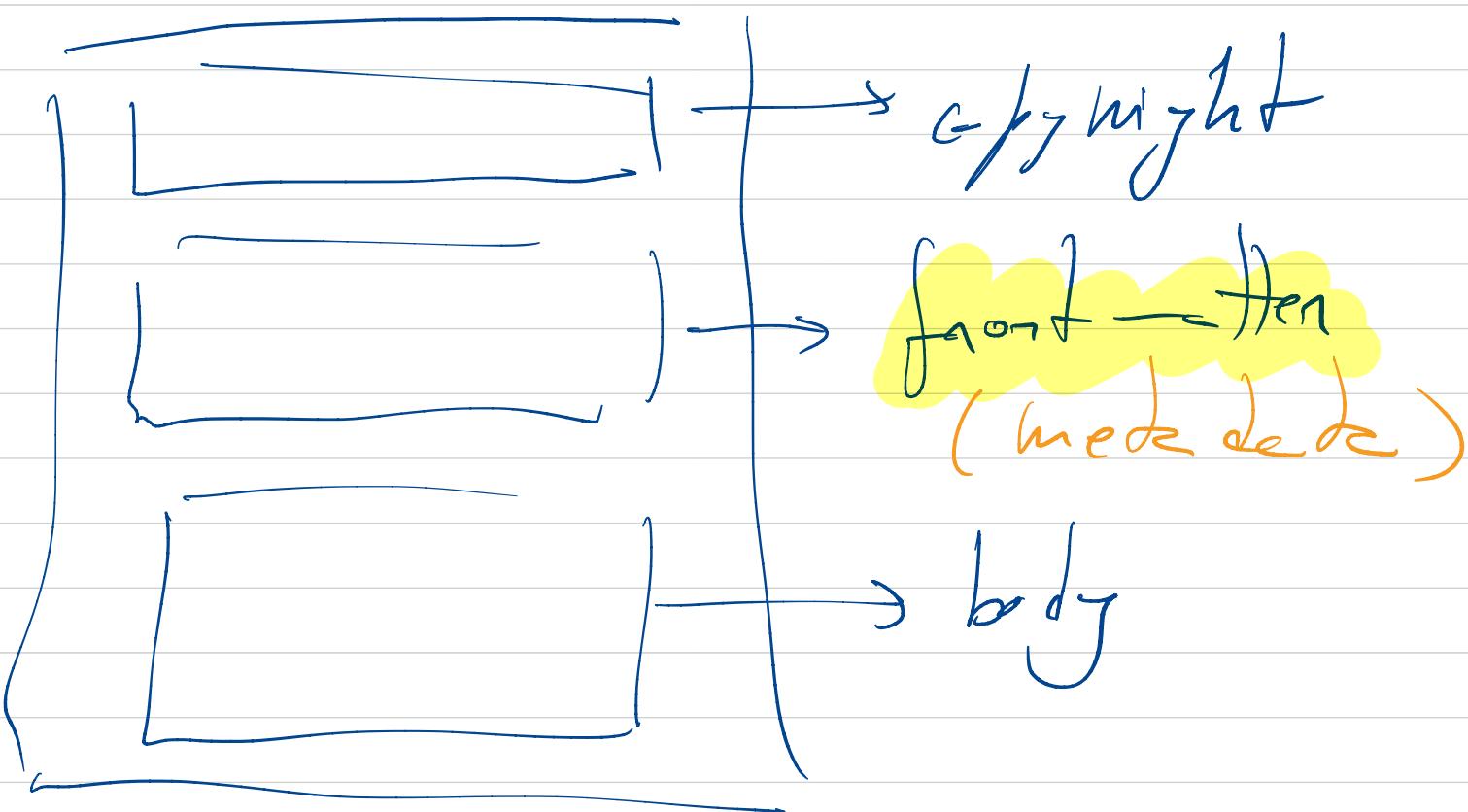


3

Test 262 Method

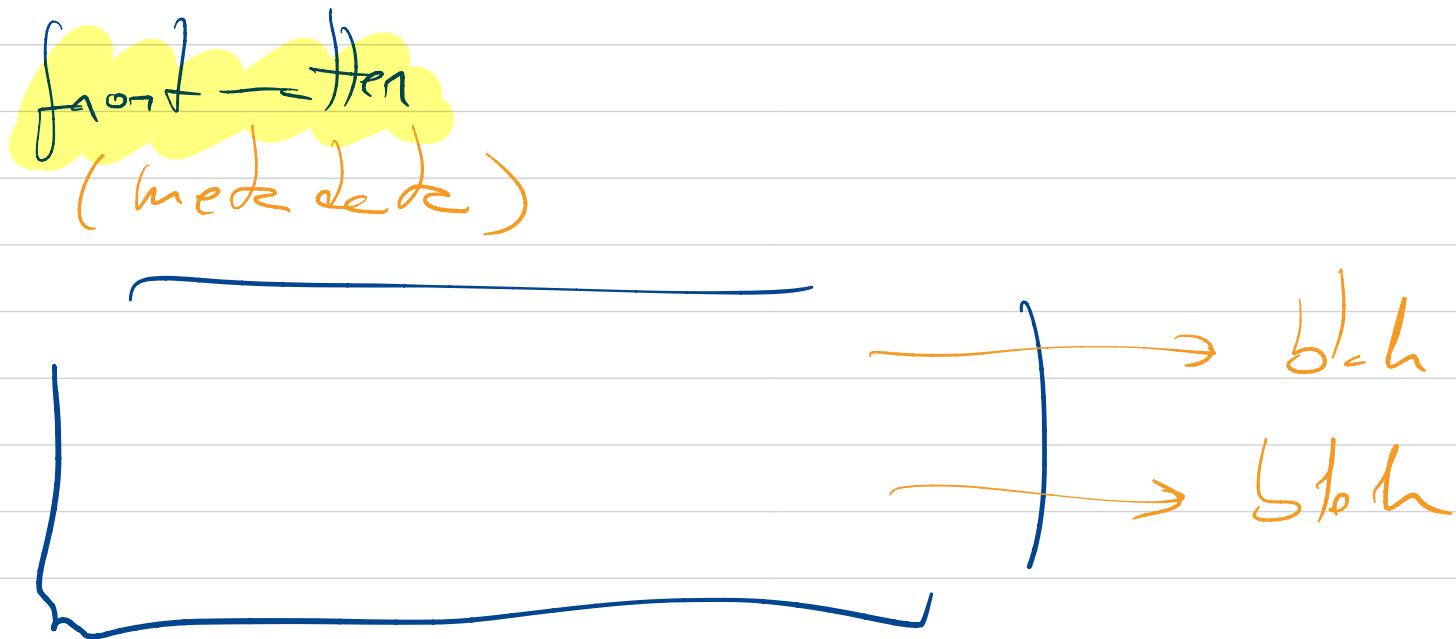
S-1

- Metabolites stored in (extrod) organelles inside each cell.



⑤ Test 262 Metakatk

- SZ - Metakatk stored in textual anchors
inside each test.



⑥ Test 262 Metadaten - Limitations

- The official metadate is not structured
 - Difficult to inspect programmatically
- Typically, metadate annotations are incomplete
- The metadate attributes lack relevant information about the test:
 - revision; used bindings, etc

②

Netzwerk 262

- New system for computing and inspecting the network of Test262 tests

① Structured JSON representation for the existing test network

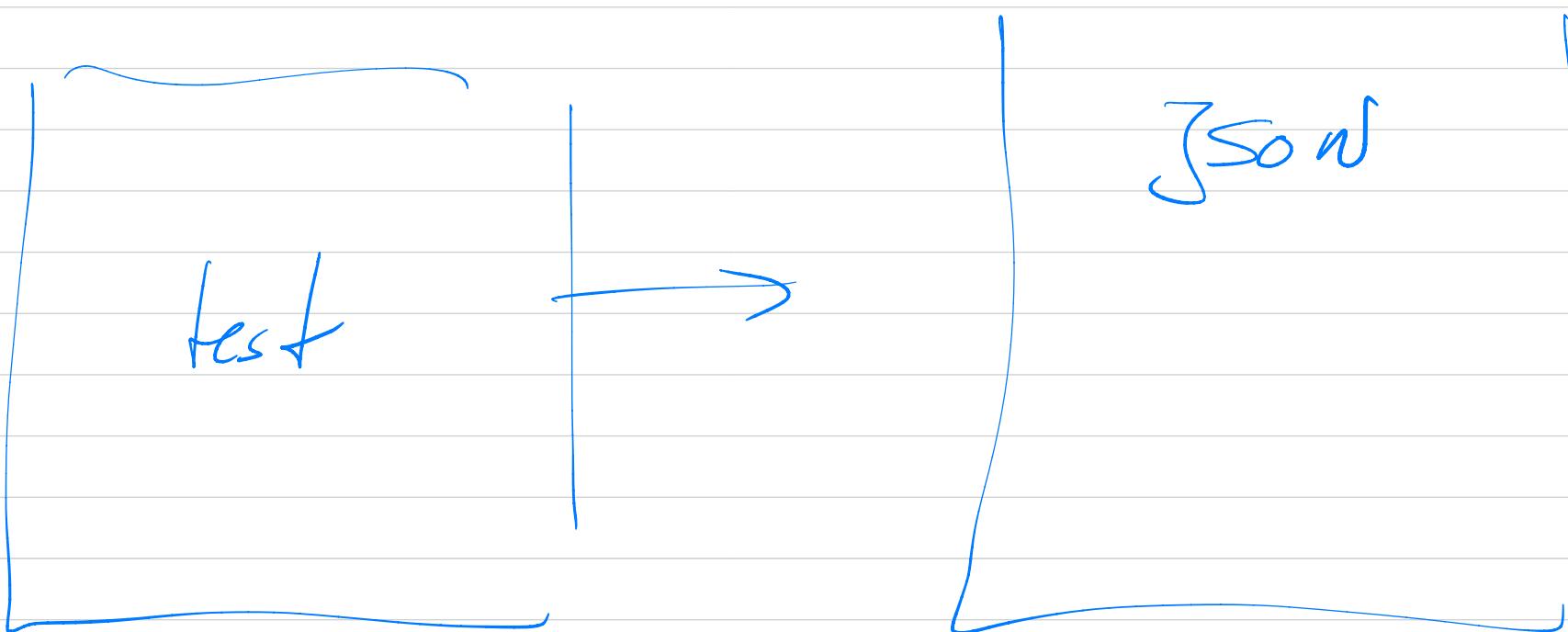
② New network attributes required for test filtering

③ Console application for visualizing the filtering of tests

②

Netzwerk 262

- New system for computing
and inspecting the network
of Test262 tests

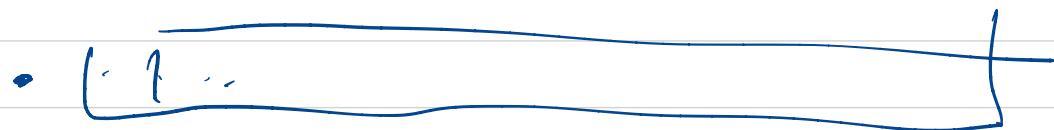


⑧

banks

- Improve Method LBZ
 - Better precision
 - Better performance
 - Additional information

- Method LBZ Viz $\rightarrow \dots$



RW

① Rekord Wz. 2



slide c/ implementação
de referências

9.2

Related Work

- All academic implementations are PARTIAL
- the authors of each tool select the appropriate tests MANUALLY

→ No trust in the test selection process

SS, KGS, JSCent, JSher1Yeast

Improve Notebook 262

⑩

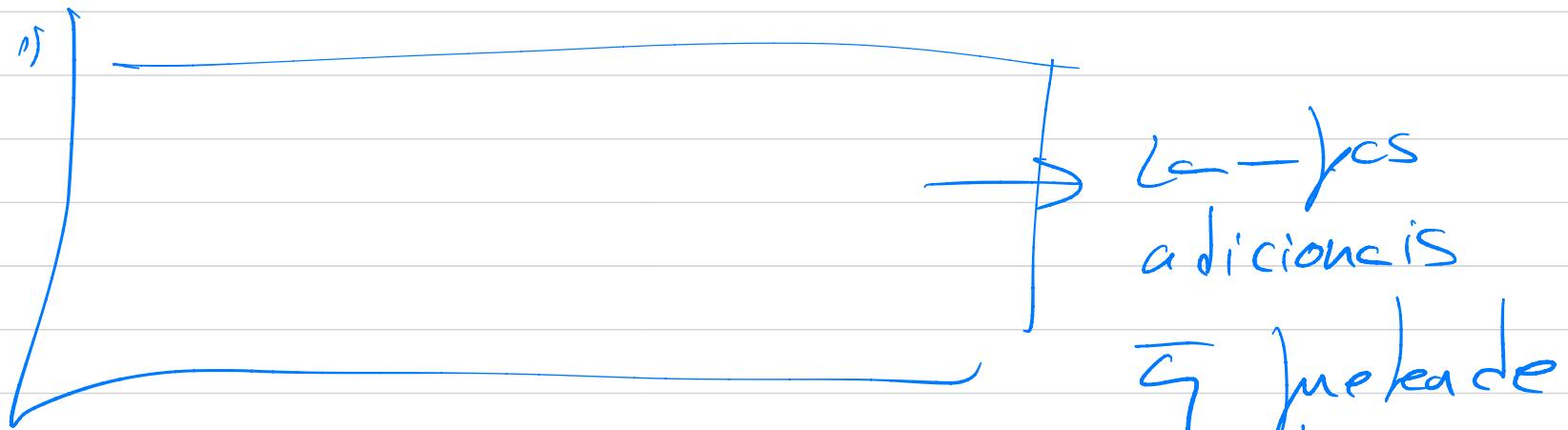
Improve Network 262

- Additional information

- Better precision

- Better performance

⑪ Improve Node.js 262 - Additional Information



⑫ Improve Node.js 262 - Better inclusion

• Version

• Used ~~host~~-ins

13.1

Improve Model E 262 - Better precision

Version L-jukola

- dynamic approach: run the test on several engines

ES5: —, —
ES6: —, —
Oracleos

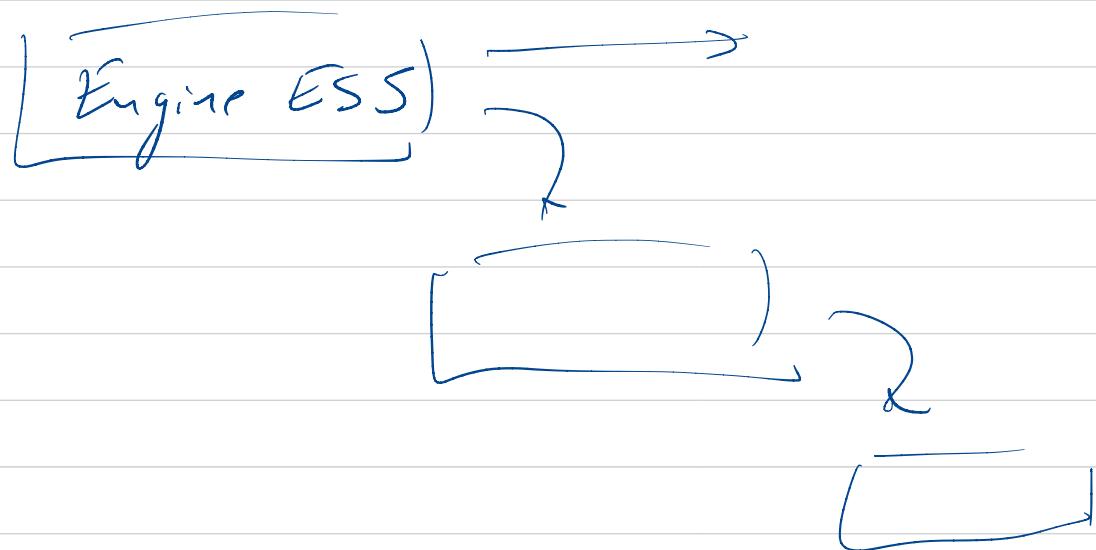
We identified 3 engines
corresponding to each version
of the standard

(B.2)

Improve Model E 262 - Better precision

Version C-pukka

- dynamic approach: run the test on one of the engines



Problem: Too few

engines for each
version

(13.3)

Improve Model E 262 - Better precision

Version Comparison

- dynamic approach: run the test on more engines

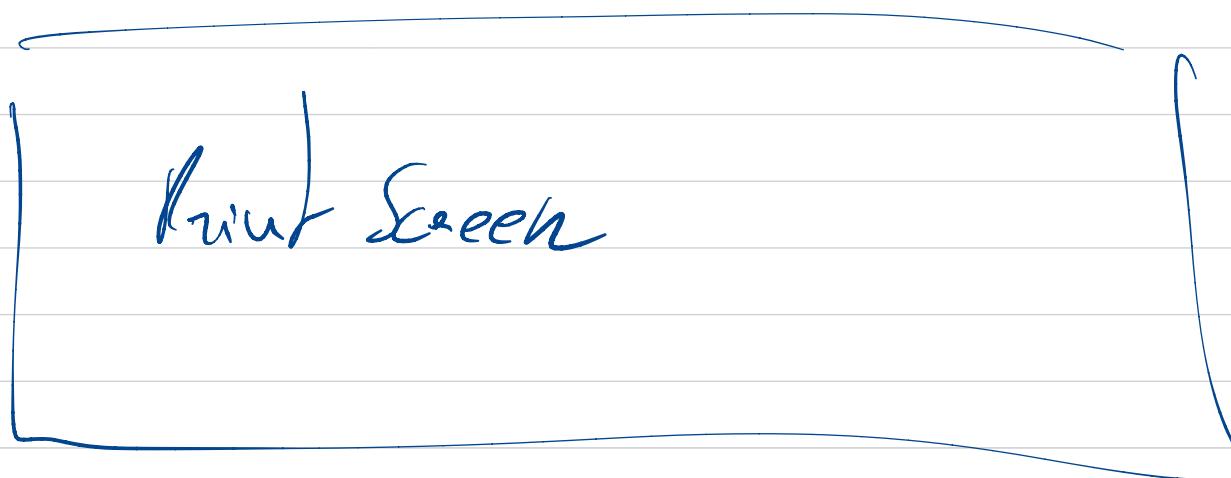
Problem: Too few
engines for each
version

⇒ Add more engines
↓
Create an infrastructure
to stack-like the
addition of new engines

Merkblatt 262 Viz

⑯ Rekordz 262 Viz

- A web platform for filtering Test262 and asking statistics about the filtered tests



(B)

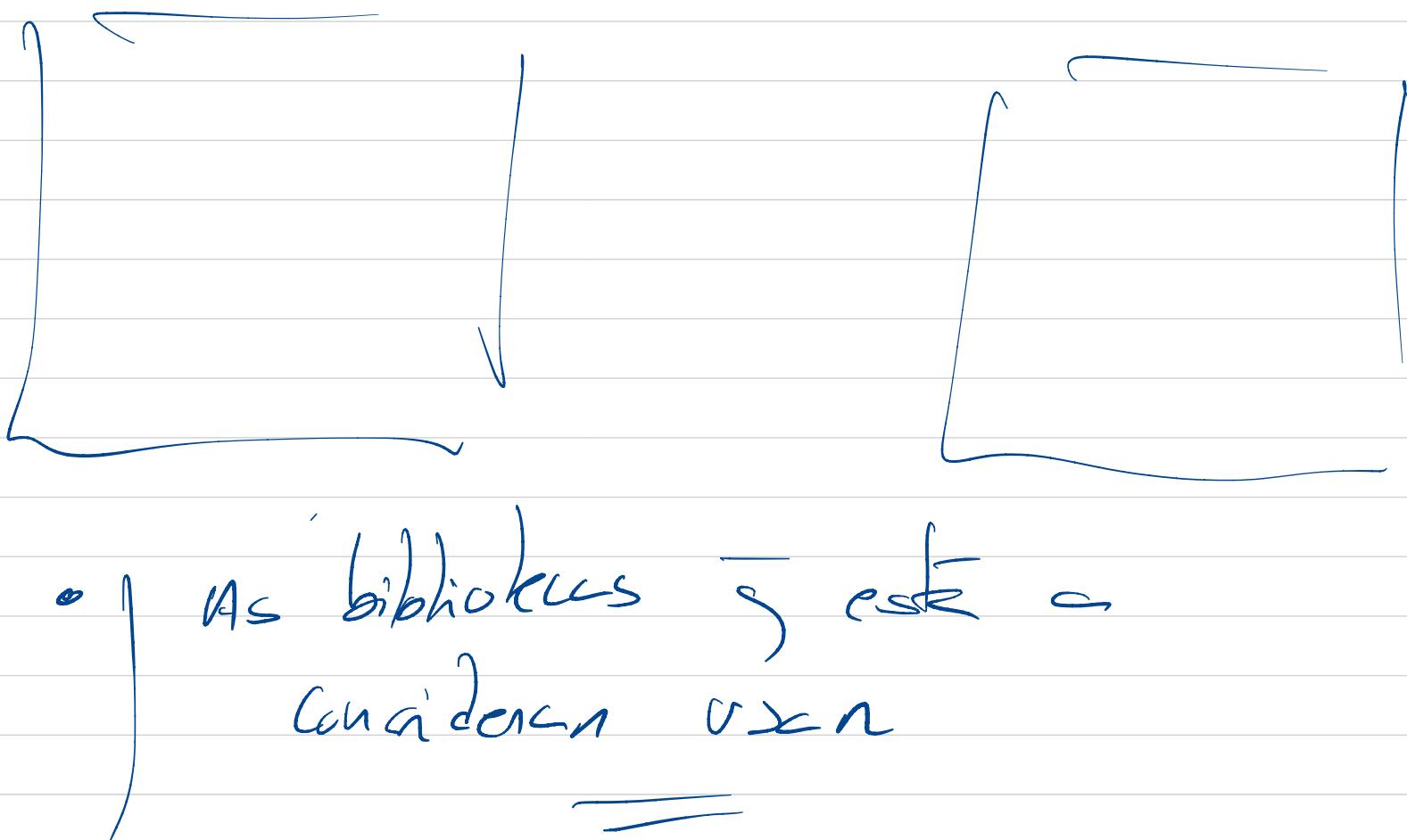
Rekordz 262 VIZ - filters



- filter by version
- conjunction & disjunction of filters

⑯

Mehrk 262 Viz - Skizze



• } As bibliokus } est a
conidium van

Evaluation and Planning

(17)

Eraktion

• I - moved Melodica 262

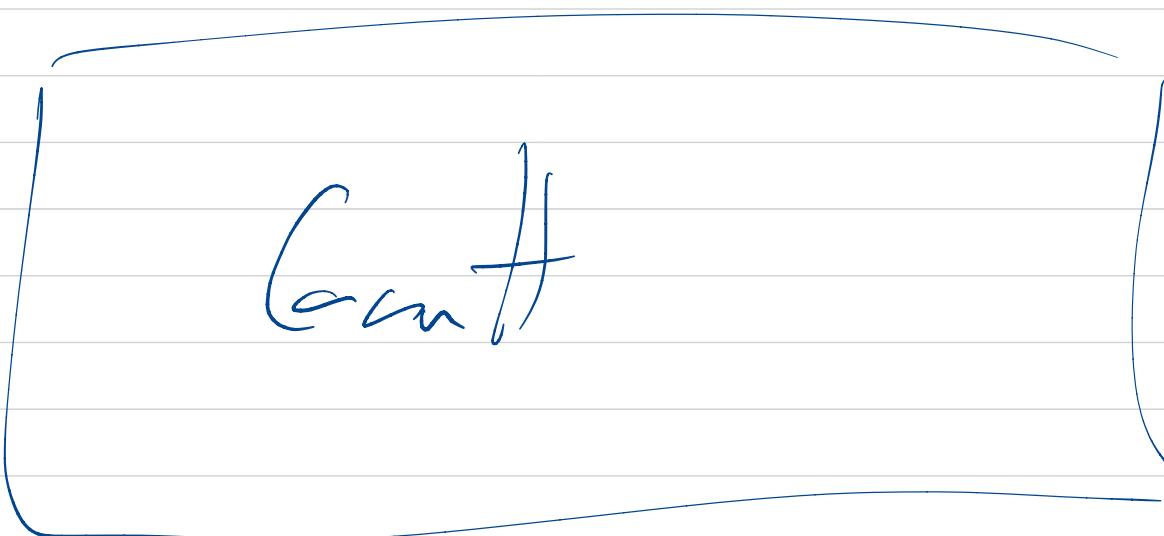
}

• Melodica 262 Viz

|

(18)

Planning



15

Conclusions

Objectivos

Thanks you!