# JSON BinPack

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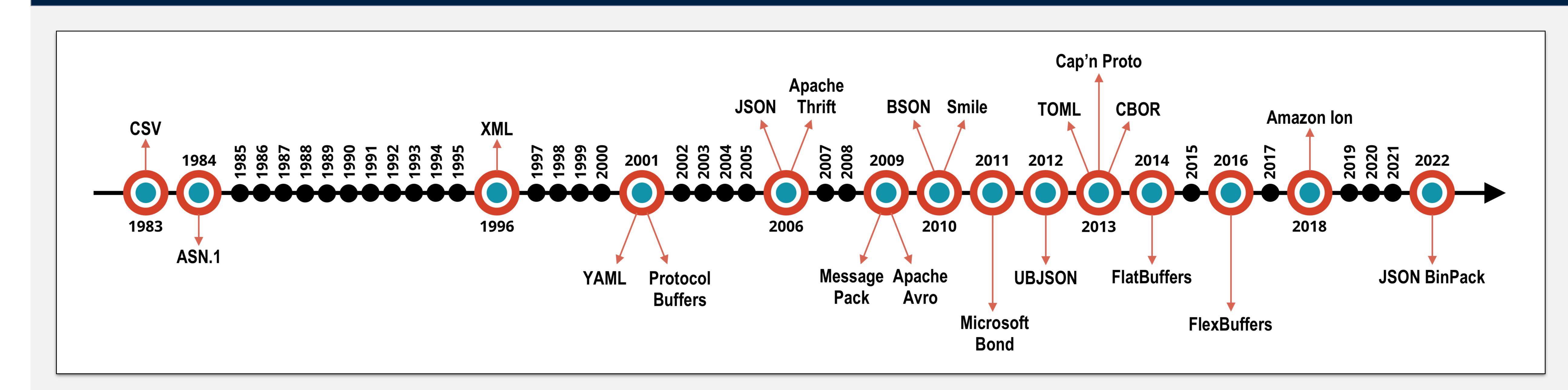
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# https://www.jsonbinpack.org

Awarded the CAR Hoare Prize for the best performance on the project, Nov 2022 Awarded the CAR Hoare Prize for the best performance in the examination by coursework, Nov 2022

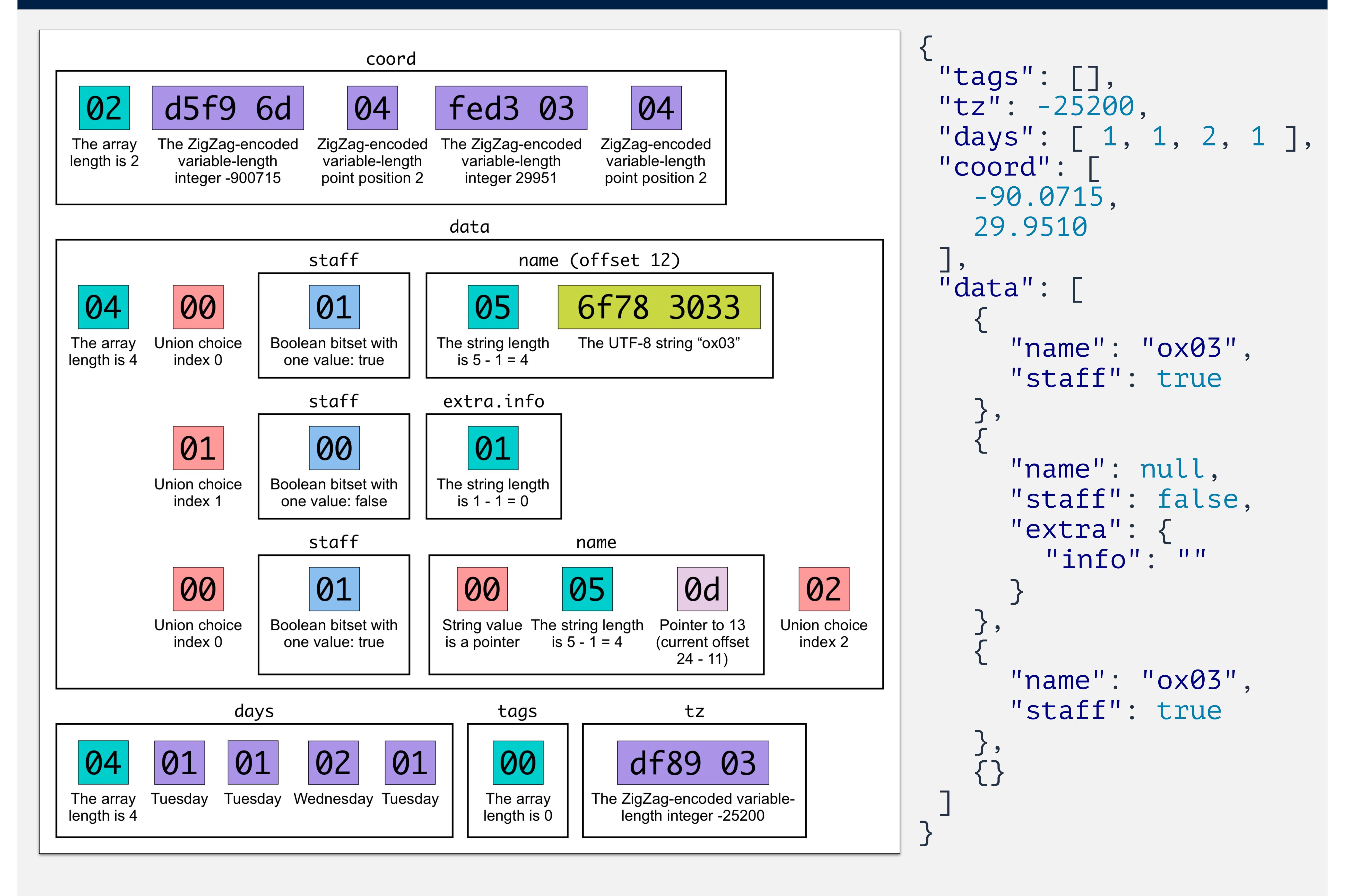


#### A Timeline of Binary Serialization Specifications



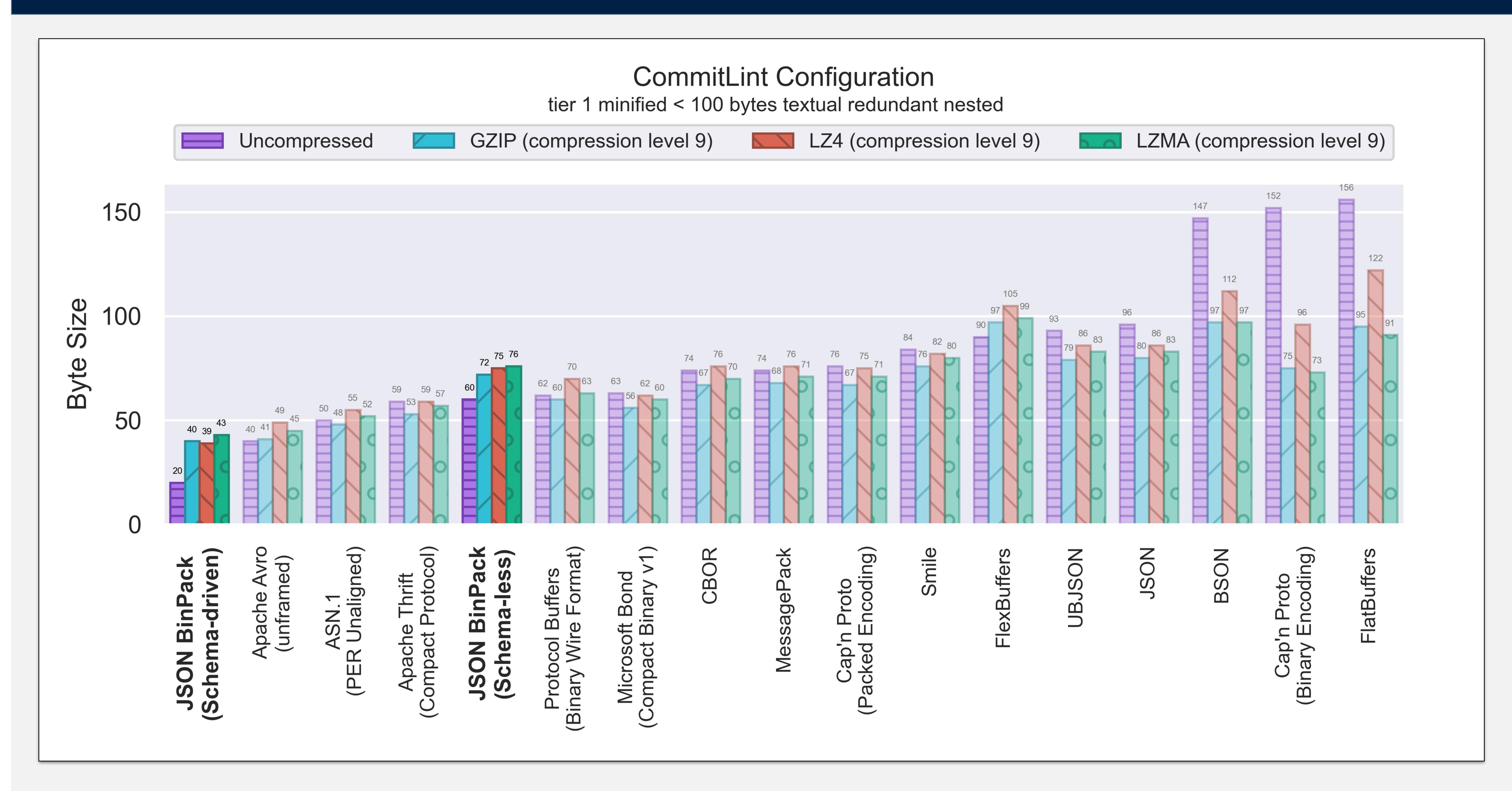
A timeline of the development and evolution of binary serialization specifications over the last 40 years.

## JSON BinPack Schema-driven Encoding



The bit-string on the left is a hexadecimal binary representation of the JSON BinPack schema-driven encoding of the example JSON document on the right.

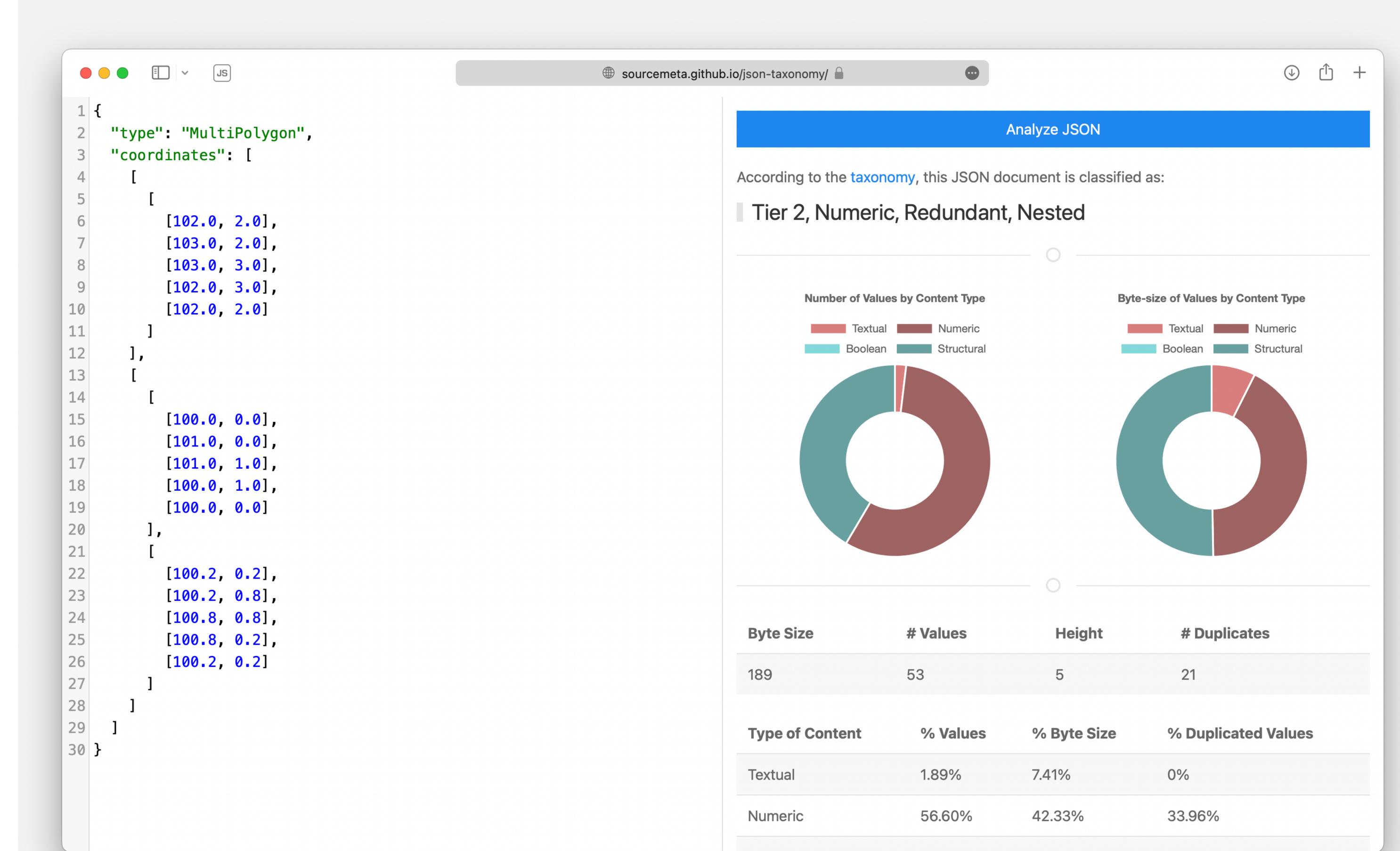
### CommitLint Configuration Space-efficiency Benchmark



The experiment demonstrates that **JSON BinPack** in schema-driven mode is more space-efficient than every alternative in every tested case; **JSON BinPack** in schema-less mode is as space-efficient or more space-efficient than every schema-less alternative in every tested case.

Learn more at https://benchmark.sourcemeta.com

#### JSON Stats Analyzer



Our research led to the definition of a tiered format taxonomy (Tier 1, Tier 2, Tier 3) to class JSON documents according to their size, content type, redundancy and structural characteristics. We hope for this taxonomy to serve as a standard to reason about JSON documents in a high-level statistical manner.

The JSON Stats analyzer is an open-source and free-to-use online tool.

Learn more at

https://sourcemeta.github.io/json-taxonomy/