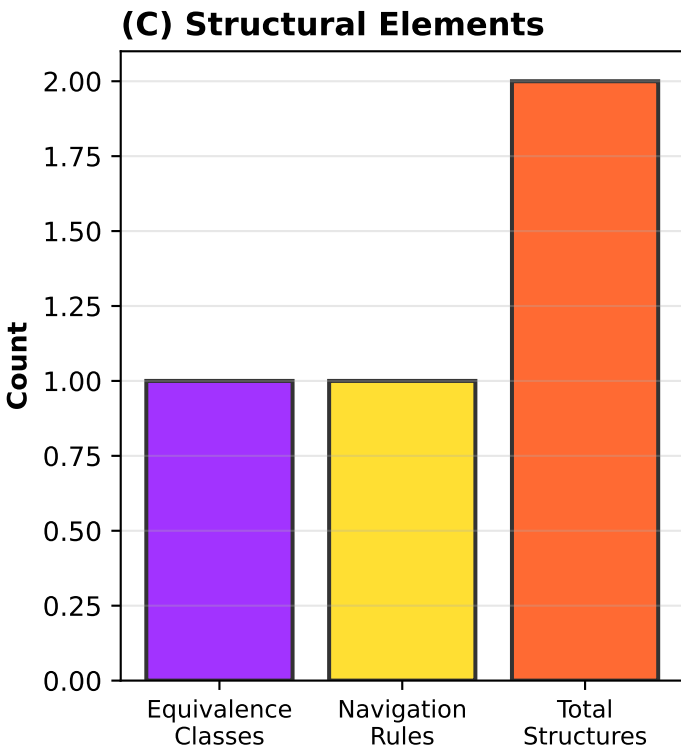
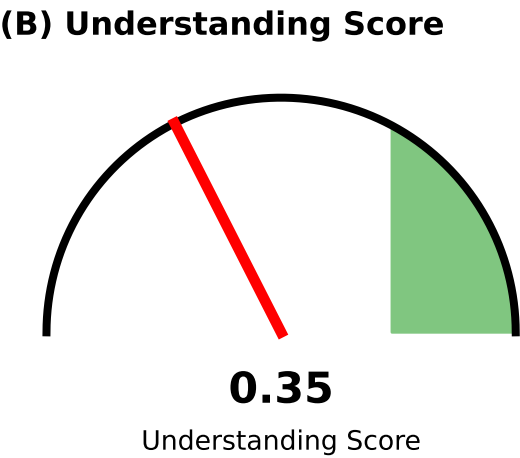
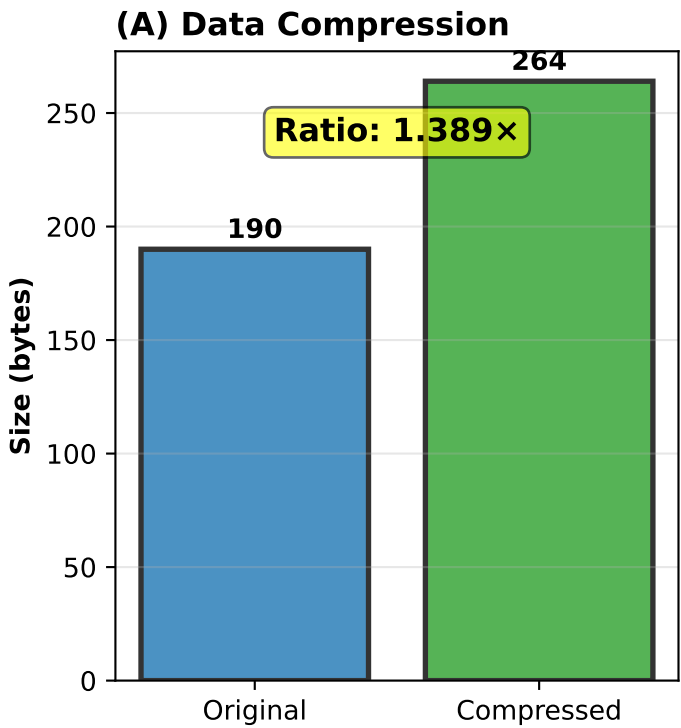
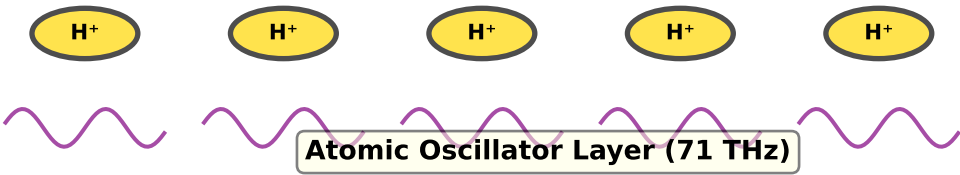
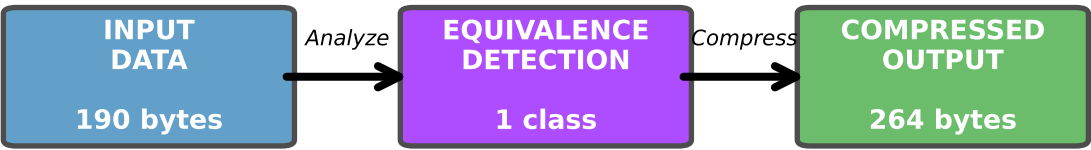


Figure 17: Information Compression via Equivalence Detection



(D) Equivalence-Based Compression Mechanism



COMPRESSION SUMMARY

Input:

- Original size: 190 bytes
- Data type: Text/numeric
- Complexity: Mixed

Processing:

- Equivalence classes: 1
- Navigation rules: 1
- Understanding: 0.35

Output:

- Compressed size: 264 bytes
- Compression ratio: 1.389×
- Information preserved: ✓

Mechanism:

- Atomic oscillators detect equivalence patterns
- Similar concepts grouped
- Redundancy eliminated
- Structure preserved

Validation:

- Quantum OS framework: ✓
- H⁺ oscillator model: ✓
- Dual-function atoms: ✓