



# **CLOUD COMPUTING APPLICATIONS**

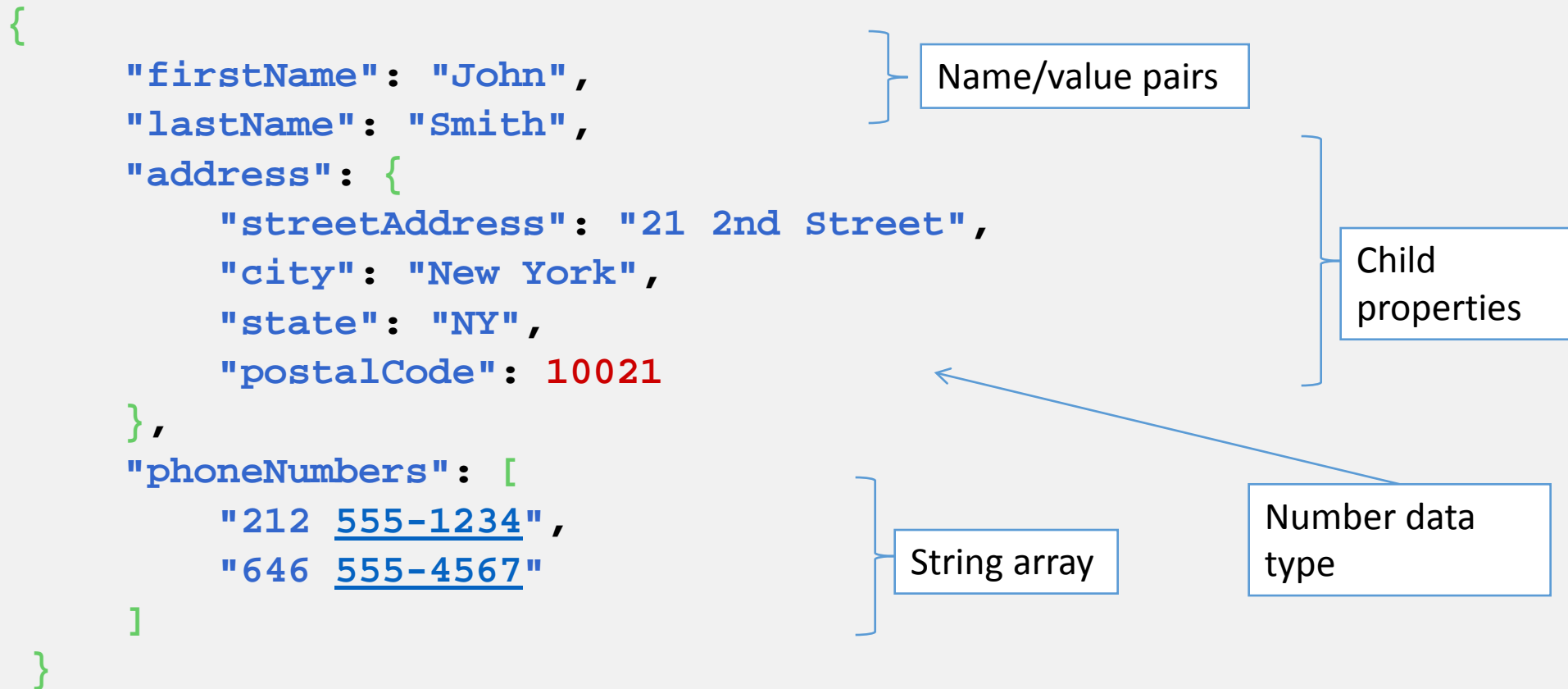
JSON

Prof. Roy Campbell

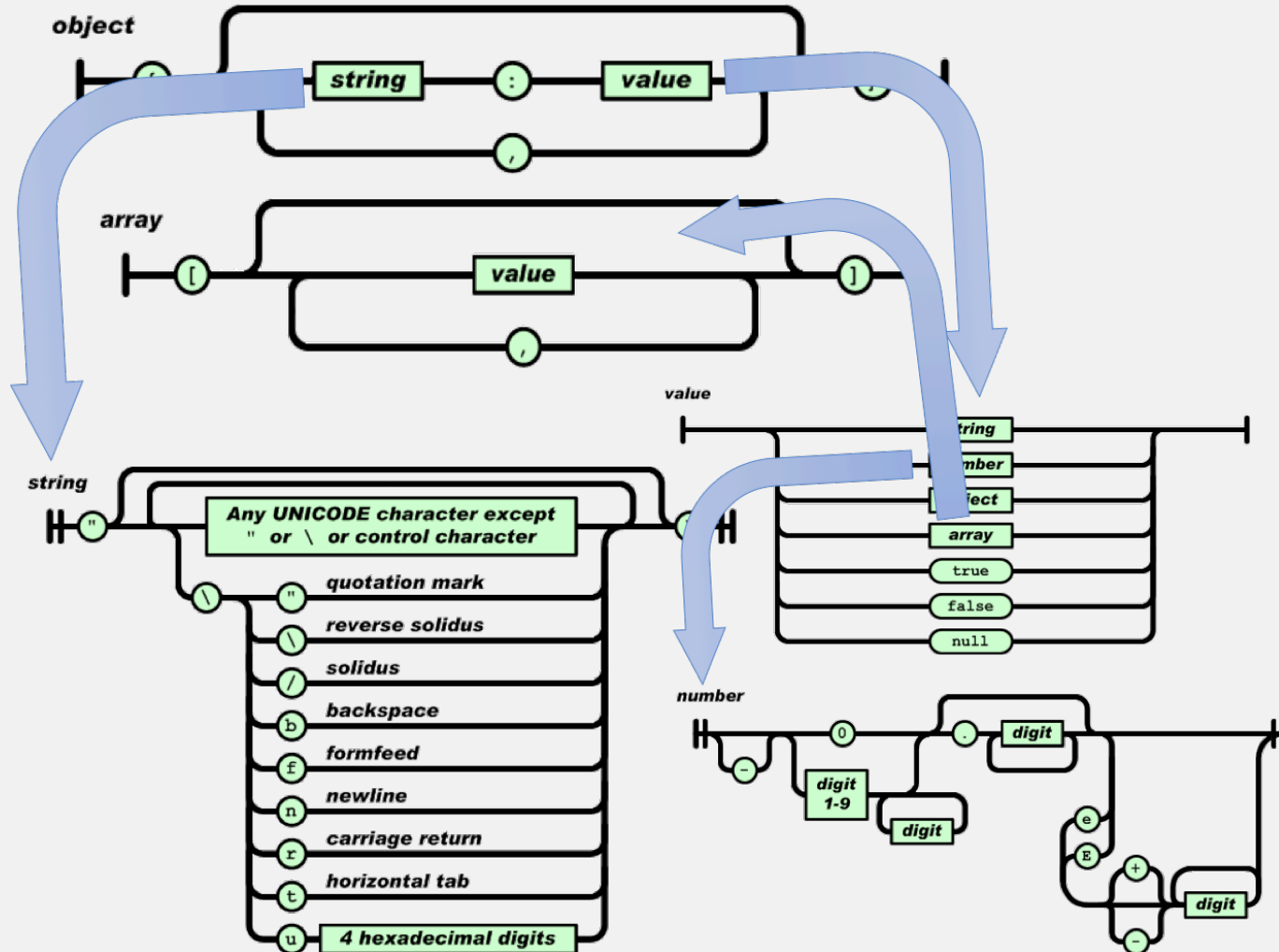
# JSON – What Is It?

- “JSON (JavaScript Object Notation) is a **lightweight data interchange format**. It is easy for humans to read and write. It is easy for machines to parse and generate.”  
– JSON.org
- Importantly: JSON is a subset of JavaScript

# JSON – What Does It Look Like?



# JSON Data Structures



# JSON vs. XML

JSON	XML
Data Structure	Data Structure
No validation system	XSD
No namespaces	Has namespaces (can use multiples)
Parsing is just an eval <ul style="list-style-type: none"><li>•Fast</li><li>•Security issues</li></ul>	Parsing requires XML document parsing using things like XPath
In JavaScript you can work with objects – runtime evaluation of types	In JavaScript you can work with strings – may require additional parsing
Security: Eval() means that if the source is not trusted anything could be put into it. Libraries exist to make parsing safe(r)	Security: XML is text/parsing – not code execution