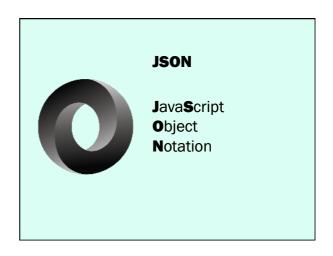
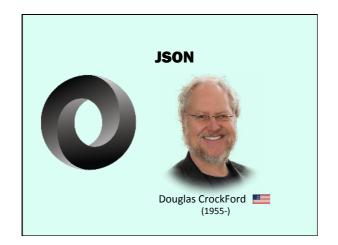
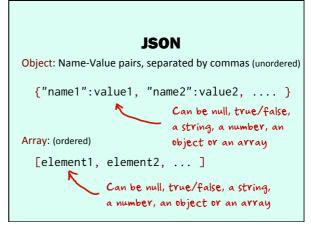
Lab9
Alternate Logging







JSON

Very popular

JSON functions in every DBMS

(including SQLite)

Basic storage in MongoDB

PostgreSQL: json datatype (+ jsonb)

https://www.postgresql.org/docs/9.6/static/functions-json.html

TODAY'S ASSIGNMENT

Create an audit trigger on table people that records only one row per update/insert/ delete statement with all modified columns in a single JSON string.

You can start with the audit trigger shown during the lecture (full code in Sakai)



create table people_audit(auditid peopleid int not null, type_of_change column_name old_value new_value changed_by time_changed

create table people_audit(auditid people.

people description int not null, char(1), varchar(30), varchar(250), varchar(250), time_changed

serial, people audit(auditid people.)

classification int not null, char(1), varchar(30), varchar(250), varchar(100), time_changed

serial, people audit(auditid people.)

classification int not null, char(1), varchar(30), varchar(250), varchar(250), varchar(100), time_thanged

serial, peopleid int not null, char(1), varchar(30), varchar(250), varchar(250), varchar(250), varchar(250), varchar(30), varchar(250), varchar(30), varchar(250), varchar(30), varchar(250), varchar(30), varchar(30), varchar(250), varchar(30), varchar(250), varchar(30), varchar(250), varchar(30), varchar(30), varchar(30), varchar(250), varchar(30), varch

One row per change



(F)

create table people_audit(auditid serial, peopleid int not null, type_of_change changes json, changed_by time_changed timestamp);

{"column name":[old_value, new_value], "column_name": ...}

{"column name":new_value, "column_name": ...}

{"column name":old_value, "column_name": ...}

No null for insert/delete