ACID Properties of Transactions

Morals of the Stories

The Properties

- Atomicity
- Consistency
- Isolation
- Durability
Atomicity

- No partial completion
- Either full transaction
- Or no trace of transaction $100

Consistency

- Duty of transaction
- If DB is consistent before transaction it will be consistent after.
- May not be consistent during but that is OK
Isolation

- Updates are not visible to other transactions before transaction commits.
- OR, if another transaction Dirty Reads data, it must be killed.

Durability

- Committed transaction must be remembered
- No excuses
- Backup and Recovery essential