

e.g. state of User, Environment, Computer ...

Context is being used to adapt applications to your need
e.g. Phone Rotation is Context

Assistant Applications
enabling SMART behavior
e.g. Reminders, Forwarding ...
→ Field Notes, Coffee Cup, Google Now

Context Aware Computing

DEFINITION

PASCOE, 1998 → "...states of interest..."
→ "...awareness is ability to sense various states..."

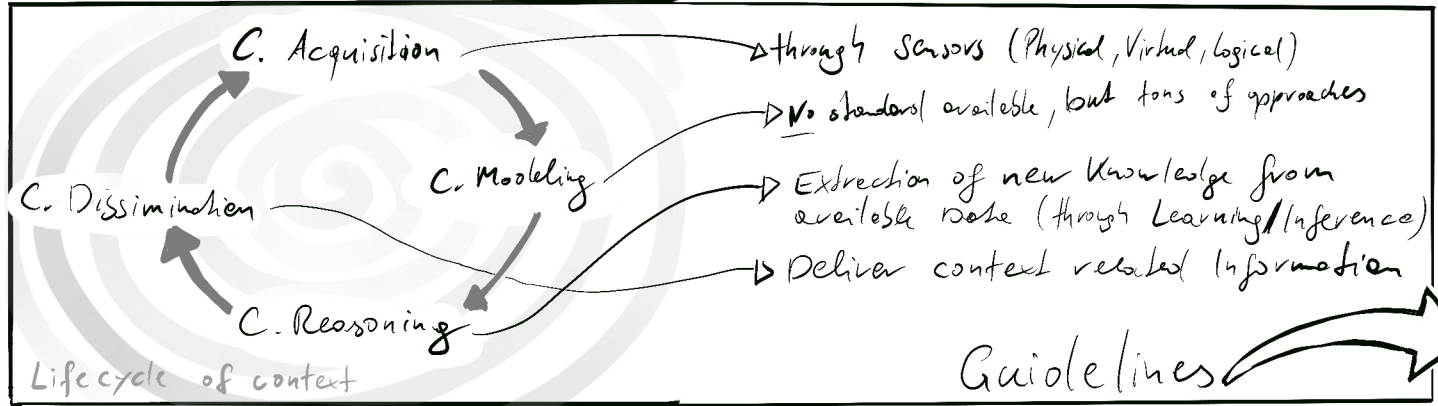
SCHMIDT, 1999 → "context describes a situation a user/device is in."
+ "For each context, a set of features is relevant"

CHEN & Kotz, 2000
→ "set of environmental states/states that determine application's behaviour ..."

DEY, 2001 → "Information that can be used to characterize the situation of an entity."

Classification of CONTEXT

- Computing Context
- User Context
- Environmental Context
- Physical Context



Guidelines

- BE TRANSPARENT!
- Don't Model the world!
- Don't Overwhelm!
- User is in Control!

USE Context to

- adopt applications to user's needs
- without users expressing their needs
- But modeling context is not standardized

BAT V.S. Cricket

- The epic Battle of Location Systems

BAT

transmitter emits pulse
→ receivers calculate position through trilateration
→ system knows user's location

Cricket

beacons on wall send RF & ultra sound signals
→ Listeners in user devices calculate distance to beacons

both designed for similar applications BUT

BAT has Privacy issues!

User has no control of what he shares with the system.

KAPOW!

BAD BATSY!