

## eMotion OVERVIEW

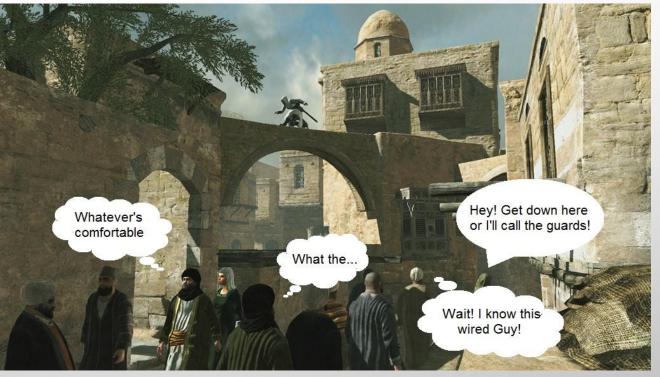
FLORIAN HARDE





### WHAT IT IS

- eMotion ENABLES YOU TO ATTACH EMOTIONAL BEHAVIOR TO AN ALREADY EXISTING A.I.
- eMotion ALLOWS TO CREATE DYNAMIC AND
   INDIVIDUAL ASPECTS IN GAMES
- eMotion CAN BE USED AS A BLACK BOX
- eMotion WORKS WITH RELATIONS, NOT WITH DEFINITIONS. YOU CAN INTERPRET AND IMPLEMENT EMOTIONAL BEHAVIOR IN THE WAY YOU WANT IT.
- eMotion IS DESIGNED TO BE USED IN GAMES, SO
   IT SHOULD BE FAST ENOUGH



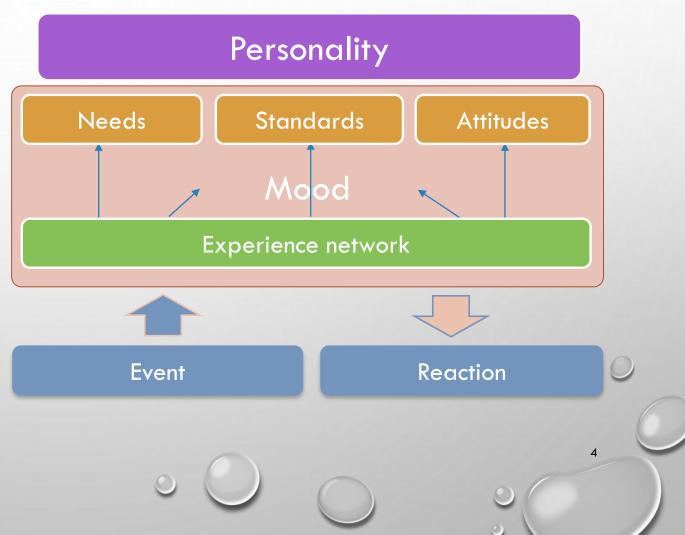
# eMotion THE CONCEPT

- ABSTRACT, TO DECOUPLE FROM CONCRETE DEFINITIONS.
- **MODULAR**, TO ALLOW MANY DIFFERENT IMPLEMENTATIONS.
- FEW RESTRICTIONS, TO ALLOW MANY DIFFERENT INTERPRETATIONS

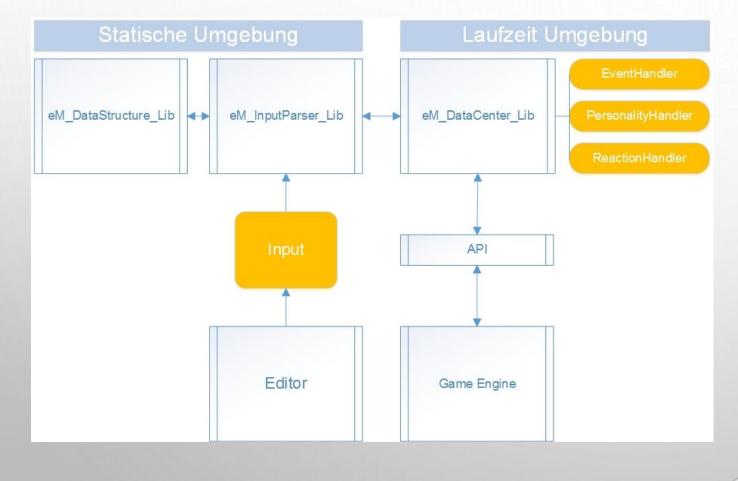


# eMotion THE CONCEPT

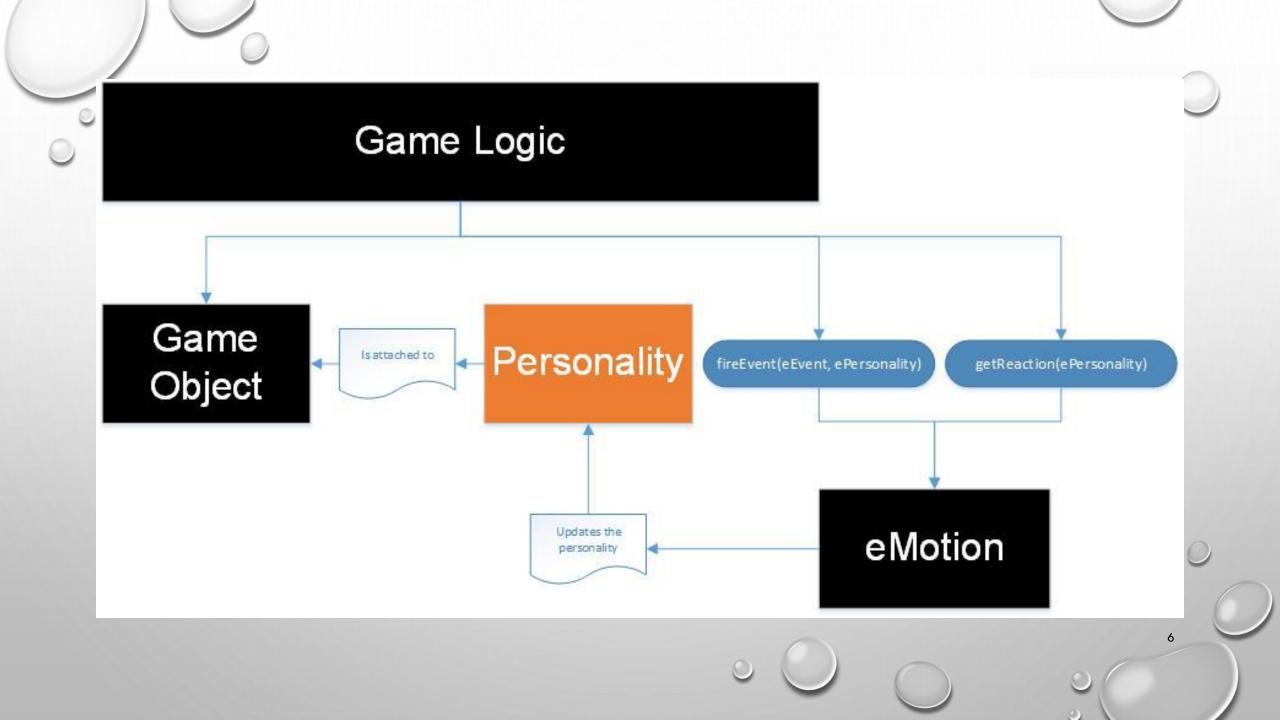
- A PERSONALITY IS DEFINED BY NEEDS, STANDARDS AND ATTITUDES.
- THE EXPERIENCE NETWORK ALLOWS THE PERSONALITY TO LEARN.
- THE MOOD DESCRIBES THE ACTUAL
   STATE OF THE PERSONALITY AND
   SERVES AS BASE FOR THE CALCULATION
   OF REACTIONS.



# eMotion THE IMPLEMENTATION



- WAS BUILT IN C++, TO ACHIEVE
   CONTROL OVER MEMORY
   MANAGEMENT AND PERFORMANCE.
- USES A DATACENTER TO MANAGE PERSONALITIES, EVENTS AND REACTIONS.

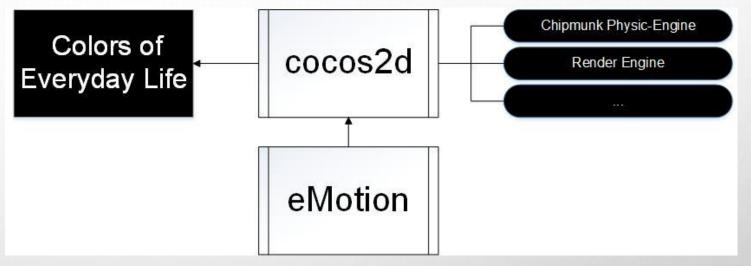


## DEMO

### COLORS OF EVERYDAY LIFE

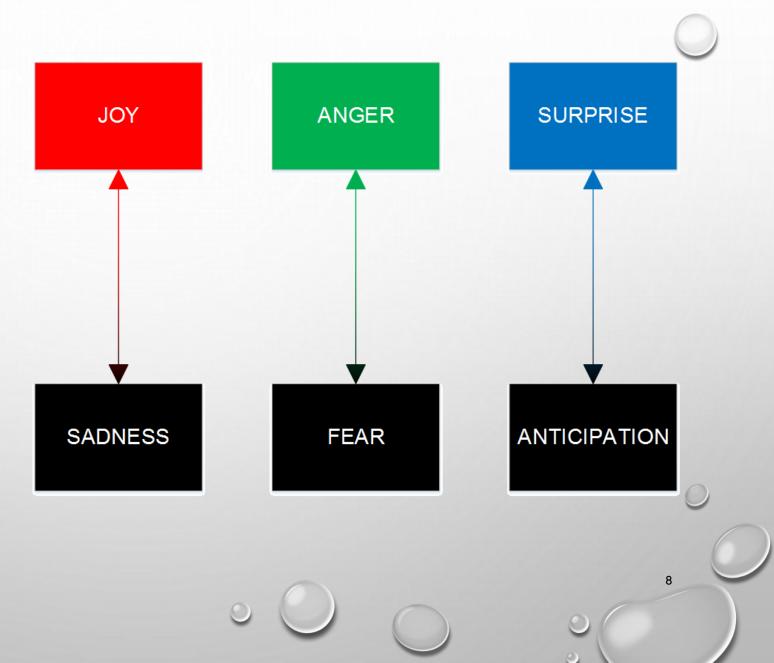
• VISUAL DEMO

 USING COCOS2D, AN OPEN SOURCE 2D MULTIPLATFORM GAME ENGINE



### COLORS OF EVERYDAY LIFE

- USING RGB-CHANNELS TO MAP FEELINGS
- PLUTCHIKS "WHEEL OF EMOTIONS" SERVED AS ORIENTATION



#### COLORS OF EVERYDAY LIFE

- AKTEURS: EXPERIENCE DESCRIPTION
- OBJECTS: SURPRISE VALENCE

:feelings Joy\_Sadness;Anger\_Fear;Surprise\_Anticipation; 1.0 0.0

#### :akteurs

pleasent;nice;disgusting;exiting;sad;wonderful;adventourus;danger
ous;memorable;gruel;ugly;

#### :objects

very\_unexpected;unexpected;little\_unexpected;neutral;little\_antic ipated;anticipated;very\_anticipated;

#attitudes: template (name:indeces,of,feelings:index of akteur;)
:attitudes

pleasent\_att:0,1:0;nice\_att:0,1:1;disgusting\_att:0,1:2;exiting\_at t:0,1:3;sad\_att:0,1:4;woderful\_att:0,1:5;adventourus\_att:0,1:6;da ngerous\_att:0,1:7;memorable\_att:0,1:8;gruel\_att:0,1:9;ugly\_att:0, 1:10;

#standards: template (name:indeces,of,feelings:index of object;)
:standards

v\_une\_sta:2:0;une\_sta:2:1;1\_une\_sta:2:2;neu\_sta:2:3;1\_ant\_sta:2:4
;ant\_sta:2:5;v\_ant\_sta:2:6;

## COLORS OF EVERYDAY LIFE

- RANDOM EVENTS "HITTING" THE PERSONALITY.
- MOOD OF THE PERSONALITY DISPLAYED AS COLOR OF THE BACKGROUND.

