

Communicative Actions & Understanding

Content

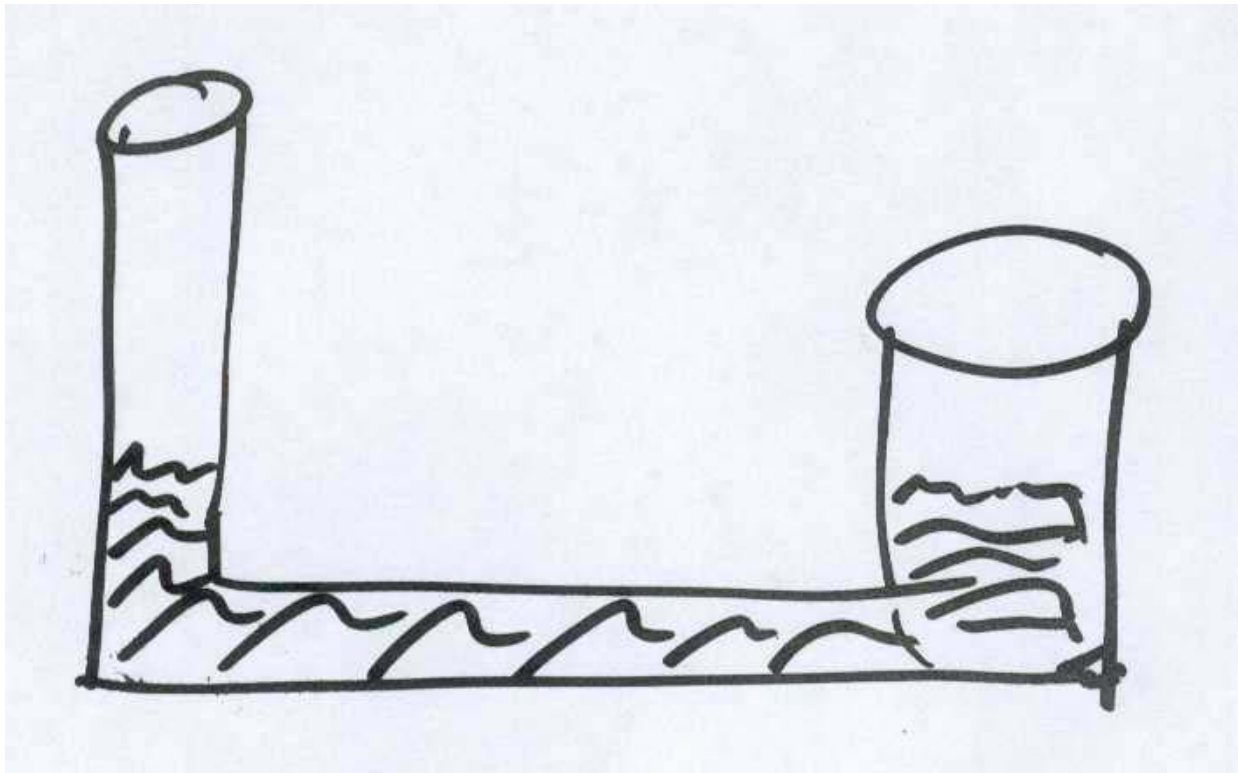
- I Communication := ???
- II Essential Distinctions
- III Paradise Valley
- IV Expectations Well-Founded?
- V Paradise Valley
- VI Real World Communication / Paradise lost
- VII C – in general
- VIII Conclusions / Perspective

Content – More Details

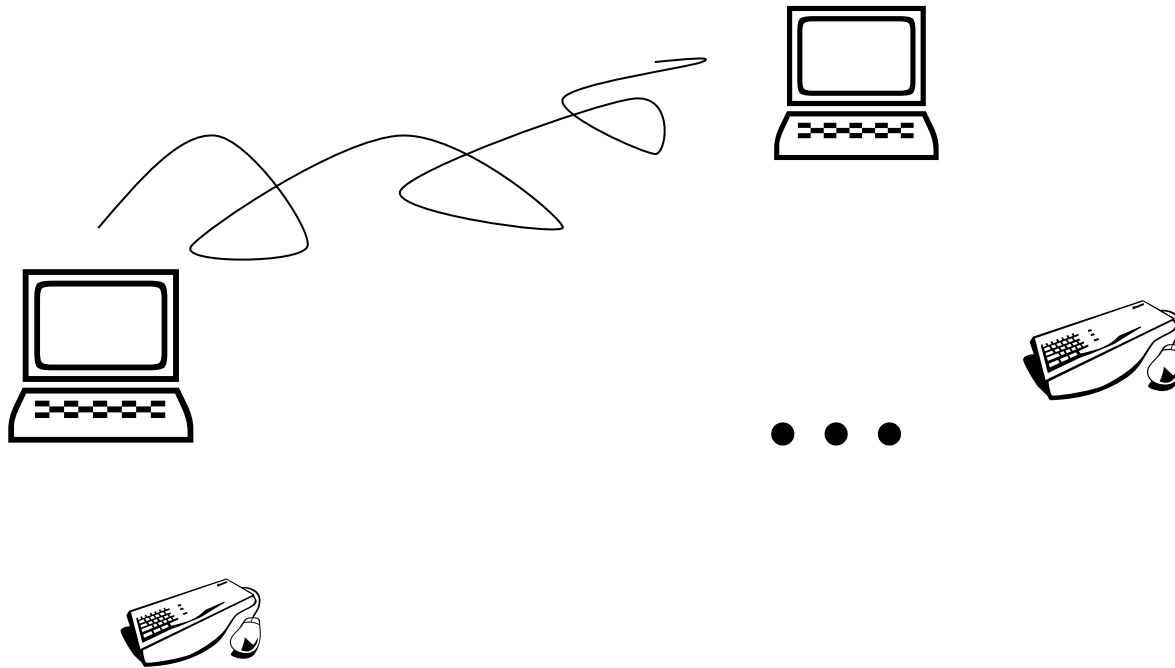
- I Communication := ???
- II C- Distinctions
- III The C-Device
 - III.1 General Structure
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 - III.3 More Detailed Structure
- IV Expectations Well-Founded?
 - IV.1 C-Expectations (External & Internal)
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 - V.2.2 Common Strategy (CS)
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 - V.2.4 Conventional C-Meaning
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I Communication := ???

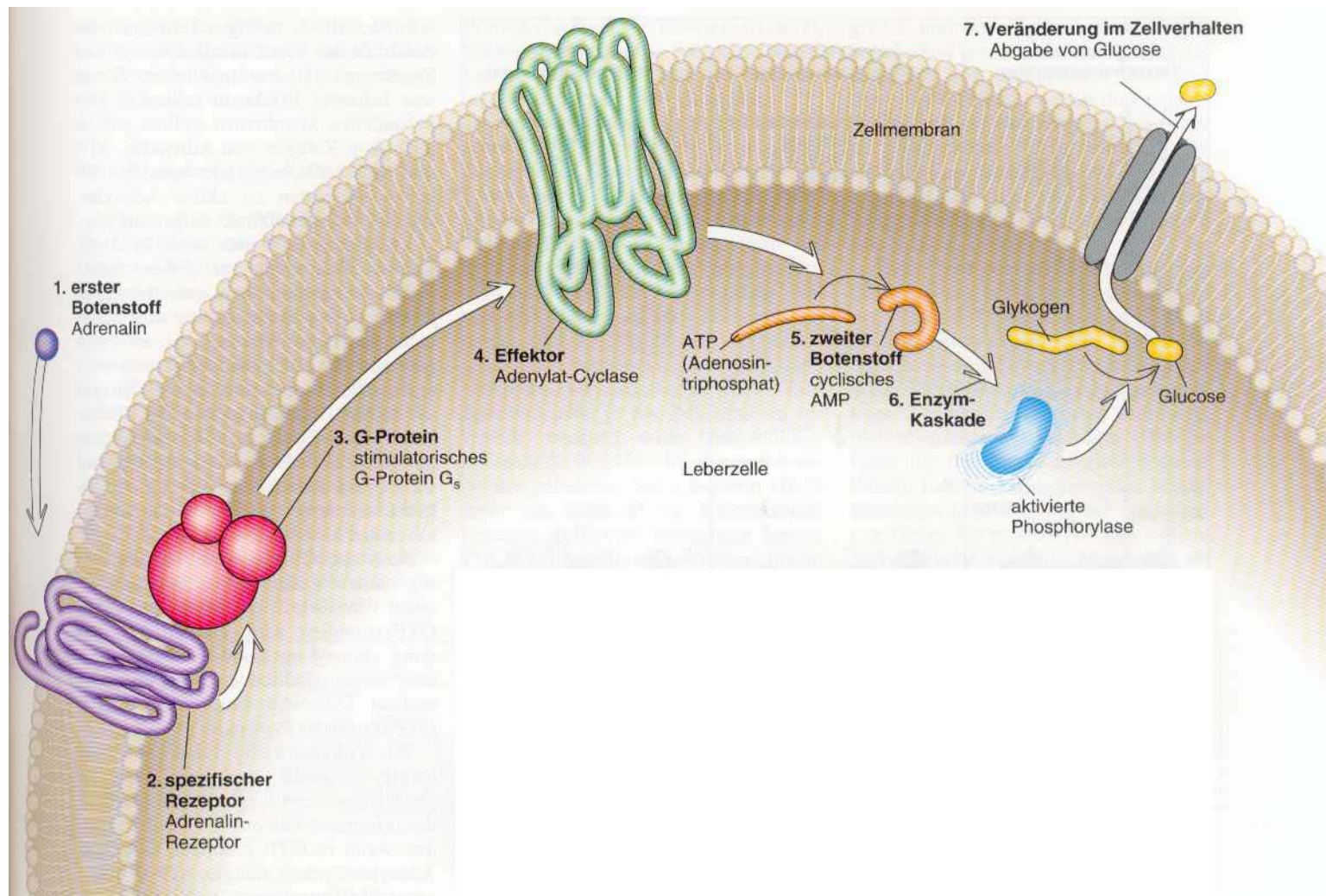
I.1 Communicating Tunes (Exchange of Liquids)



I.2 Office Communication



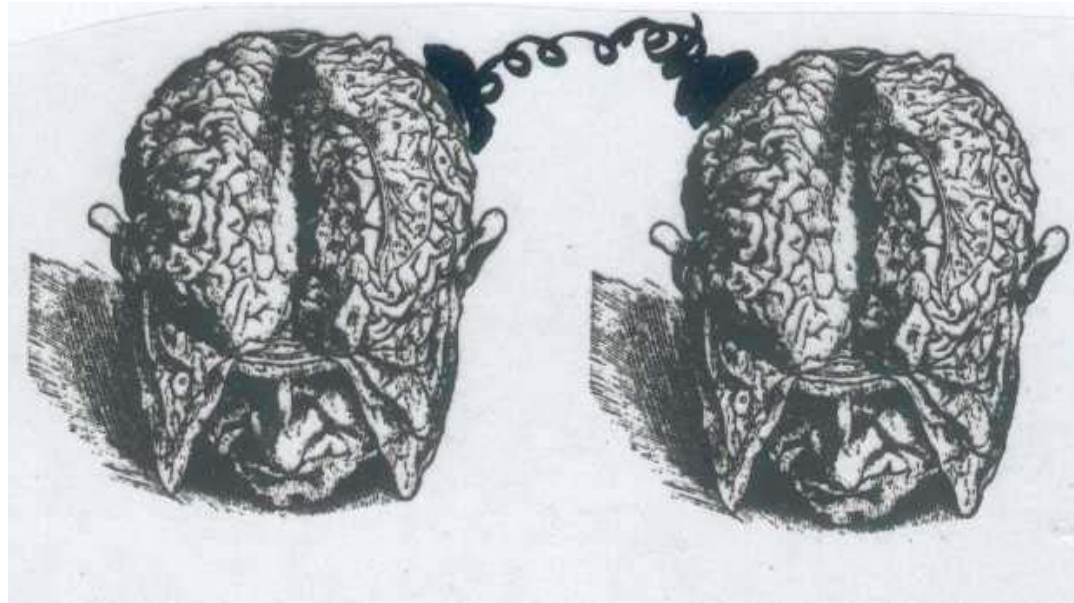
I.2a Communication between Cells



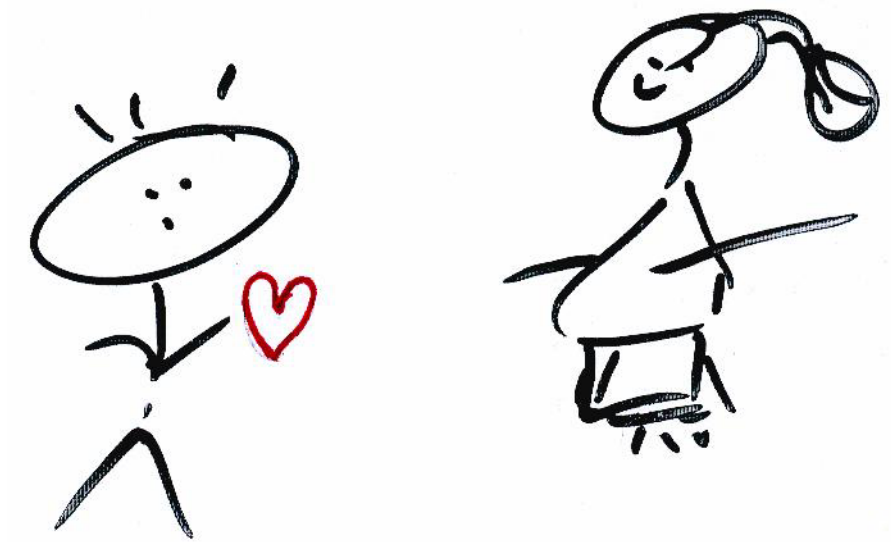
I.3 Information-Transfer between the 2 Spheres of our Brain



I.4 Information-Transfer between Brains



I.5 Interpersonal Communication

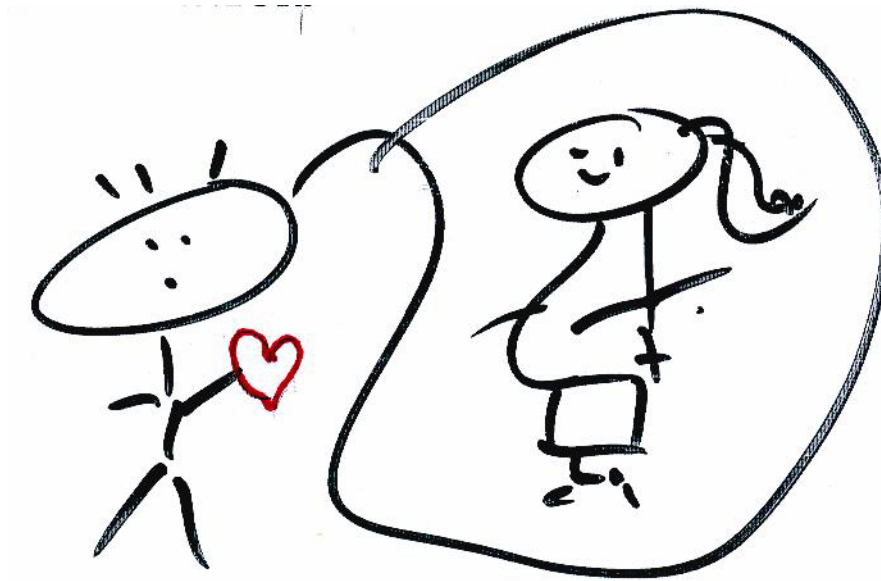


II Essential Distinctions

I.1 Different C-Concepts



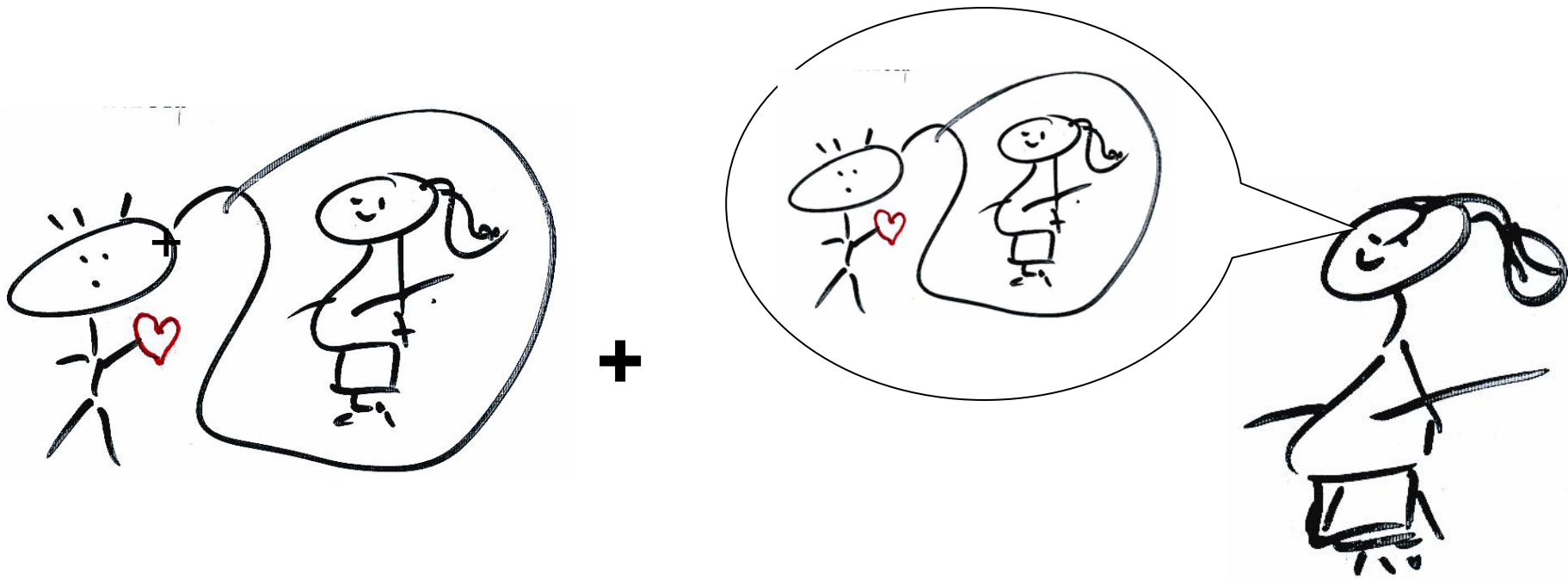
II.1.1 Communication ATTEMPT / C⁰



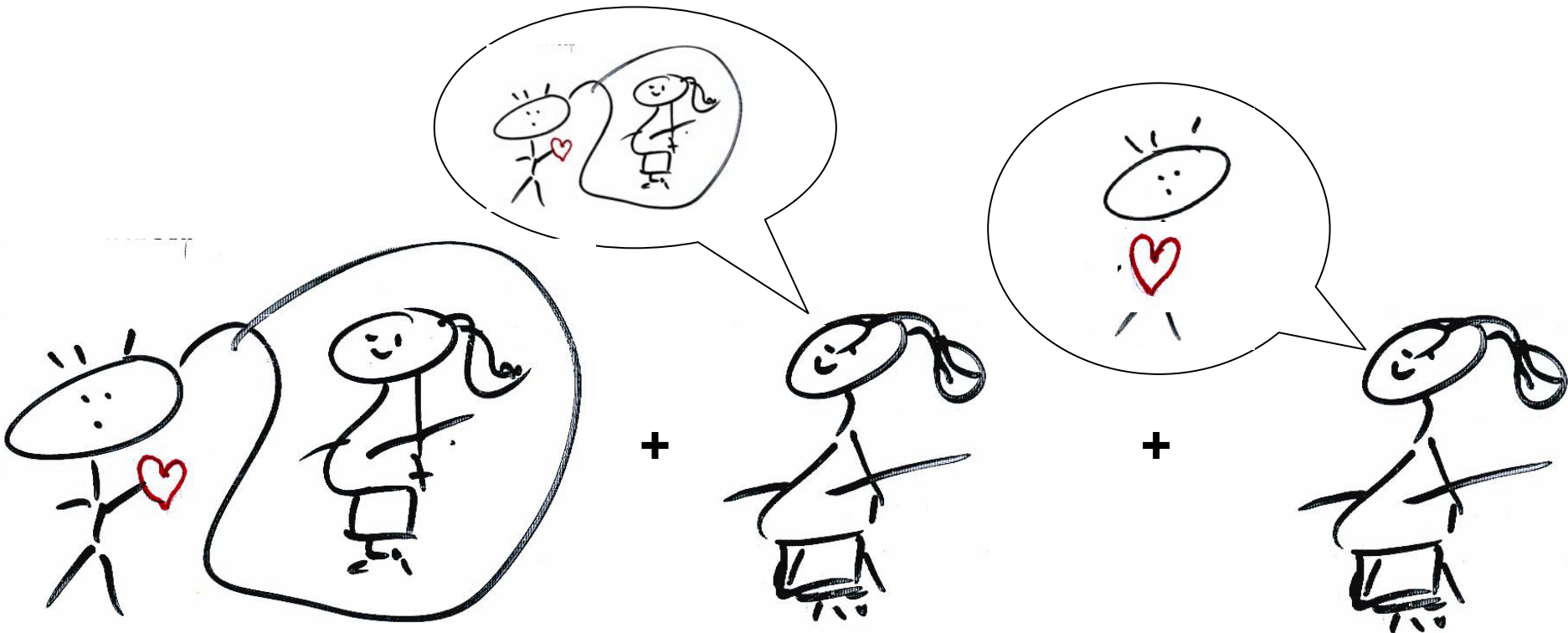
S	=	Speaker =	C-Agent
H	=	Hearer =	C-Addressee

II.1.2 C-Attempt UNDERSTOOD / C-Success_{wide sense}

$$C^+ = C^0 \& K_H C^0$$

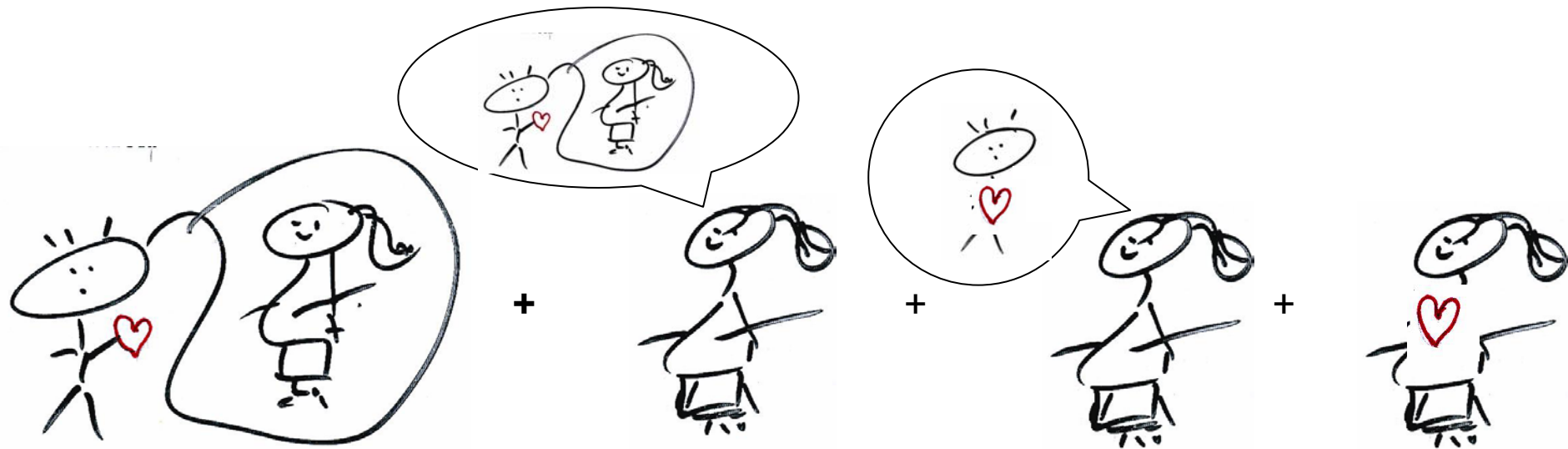


II.1.3 C-SUCCESS_{narrow sense} / C* = C+ & B_H♥_S

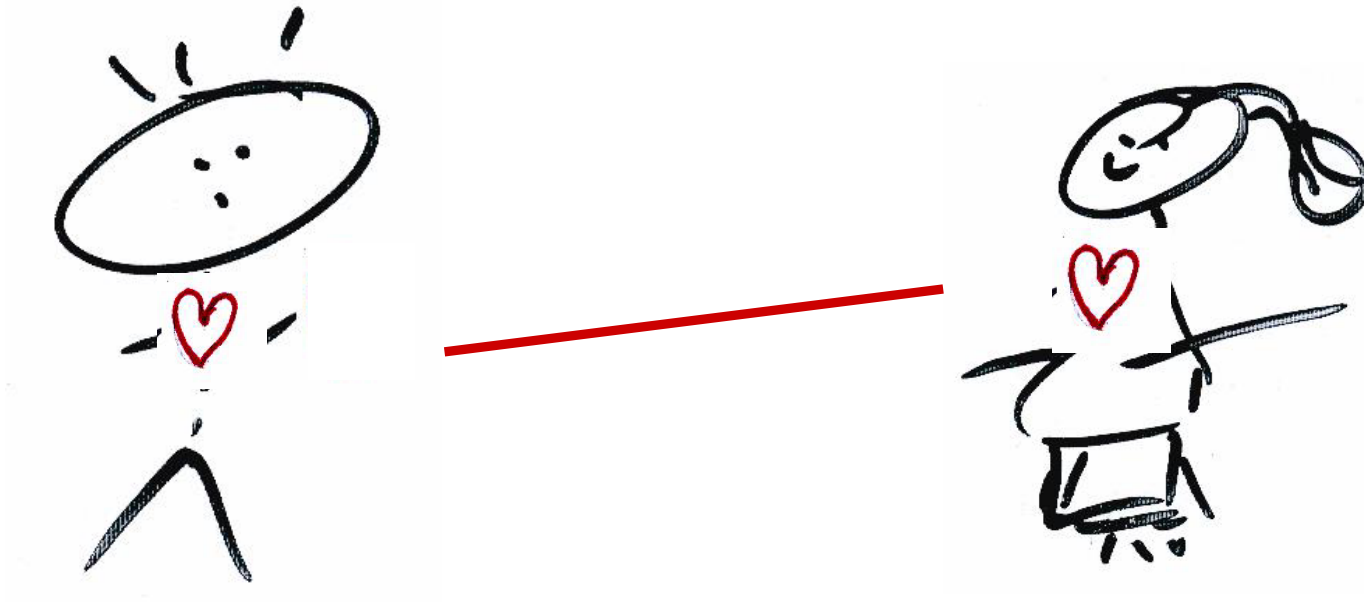


II.1.4 FINAL C-SUCCESS /

ACHIEVEMENT by means of Communication

$$C^{**} = C^* \& \cdot \heartsuit_H \text{ [\& Paradise: } \cdot \heartsuit_S + \cdot \heartsuit_H \text{]}$$


Sincerity & Trust: PARADISE

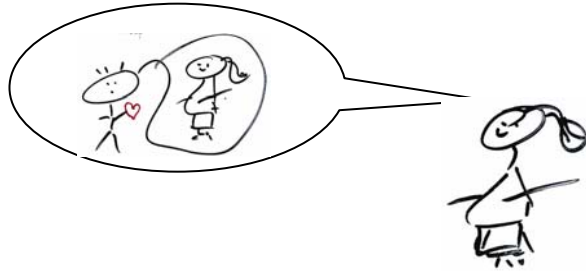
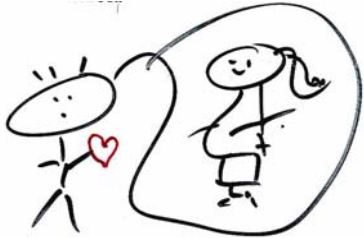


C⁰ ATTEMPT

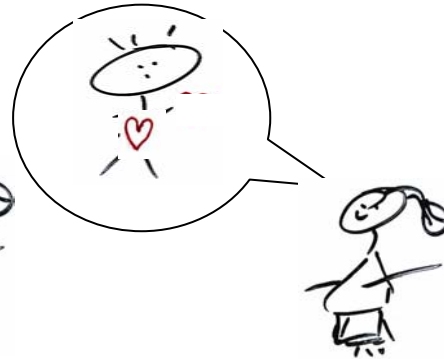
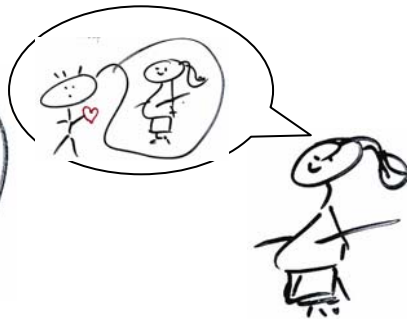
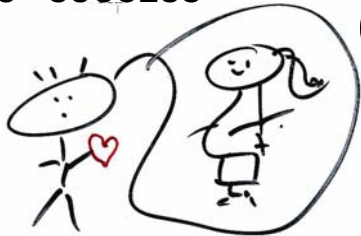
II.1.5 Summary



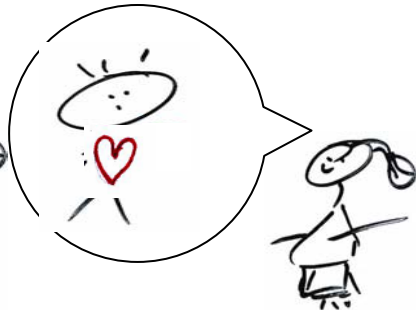
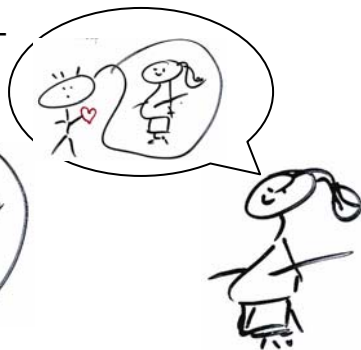
C⁺ UNDERSTANDING



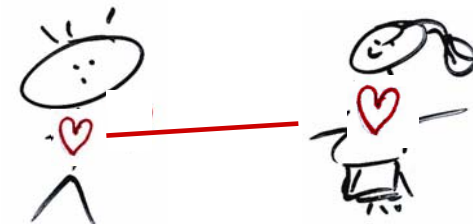
C* SUCCESS



C** ACHIEVEMENT



PARADISE



III **The C-Device**

III.1 **General Structure**

C^0 aims at C^{**}	C-Attempt aims at C-Achievement
via C^*	via C- Success
via C^+	via C-Understanding

III.2

KANTIAN Structure

(KANT)

$$\frac{W_x \alpha}{\underline{B_x} [\alpha \text{ only if } \beta]} W_x \beta$$

He who wants the purpose (given that the reason has a decisive impact on his actions) also wants the means necessary [according to the agent's belief / *G.M.*] for the purpose.

(Grundlegung zur Metaphysik der Sitten, B 44 f.)

III.1 **General Structure**

C^0 aims at C^{**}	C -Attempt aims at C -Achievement
via C^*	via C - Success
via C^+	via C -Understanding

III.3 **More Detailed Structure**

W_S C-ACHIEVEMENT

B_S [C-ACHIEVEMENT iff C-SUCCESS]

W_S C-SUCCESS

III.3 More Detailed Structure

W_S C-ACHIEVEMENT

B_S [C-ACHIEVEMENT iff C-SUCCESS]

W_S C-SUCCESS

B_S [C-SUCCESS iff C-UNDERSTANDING]

W_S C-UNDERSTANDING

$B_S [C\text{-SUCCESS iff } C\text{-UNDERSTANDING }]$

$W_S C\text{-UNDERSTANDING}$

$B_S [C\text{-UNDERSTANDING iff } C\text{-ATTEMPT }]$

$W_S C\text{-ATTEMPT}$

Rational_S (at t)

$C\text{-ATTEMPT}_S$

IV Expectations Well-Founded?

IV.1 C-Expectations

External

(AE) $B_S [\mathbf{C\text{-ACHIEVEMENT} iff } C\text{-SUCCESS }]$

Internal

(SE) $B_S [\mathbf{C\text{-SUCCESS} iff } C\text{-UNDERSTANDING }]$

(UE) $B_S [\mathbf{C\text{-UNDERSTANDING} iff } C\text{-ATTEMPT }]$

IV Expectations Well-Founded?

IV.1 C-Expectations

External

(AE) B_S [**C-ACHIEVEMENT** iff C-SUCCESS]

Internal

(SE) B_S [**C-SUCCESS** iff C-UNDERSTANDING]

(UE) B_S [**C-UNDERSTANDING** iff C-ATTEMPT]

IV.2

Foundations



(AE) }
 (SE) } being based on ... ?
 (UE) }

IV.3 Foundation of Understanding-Expectation

(UE) B_S [**C-UNDERSTANDING** iff C-ATTEMPT]

Best reason for (UE):

Type of Action which has already General C-Meaning

Meaning of (the Action-Type) *Presenting one's*  =
Meaning of “  ” (Type)

IV.4 Action-Distinctions

Action	Performance	Product
Type	Form of Performance	Product-Form
Token	concrete Performance	concrete Product

IV.5 Type-Meaning as Social Fact - (SF)

$$SF_P(A) \quad := \quad A \text{ iff } B_P A$$

→ Social Constructivism analytically true

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MEAN(P ;  -Presenting, Love) iff
 B_P MEAN(P ,  -Presenting, Love)

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MEANING $_P$ = paradigm case of SF $_P$

Now, what about Well-Foundedness of

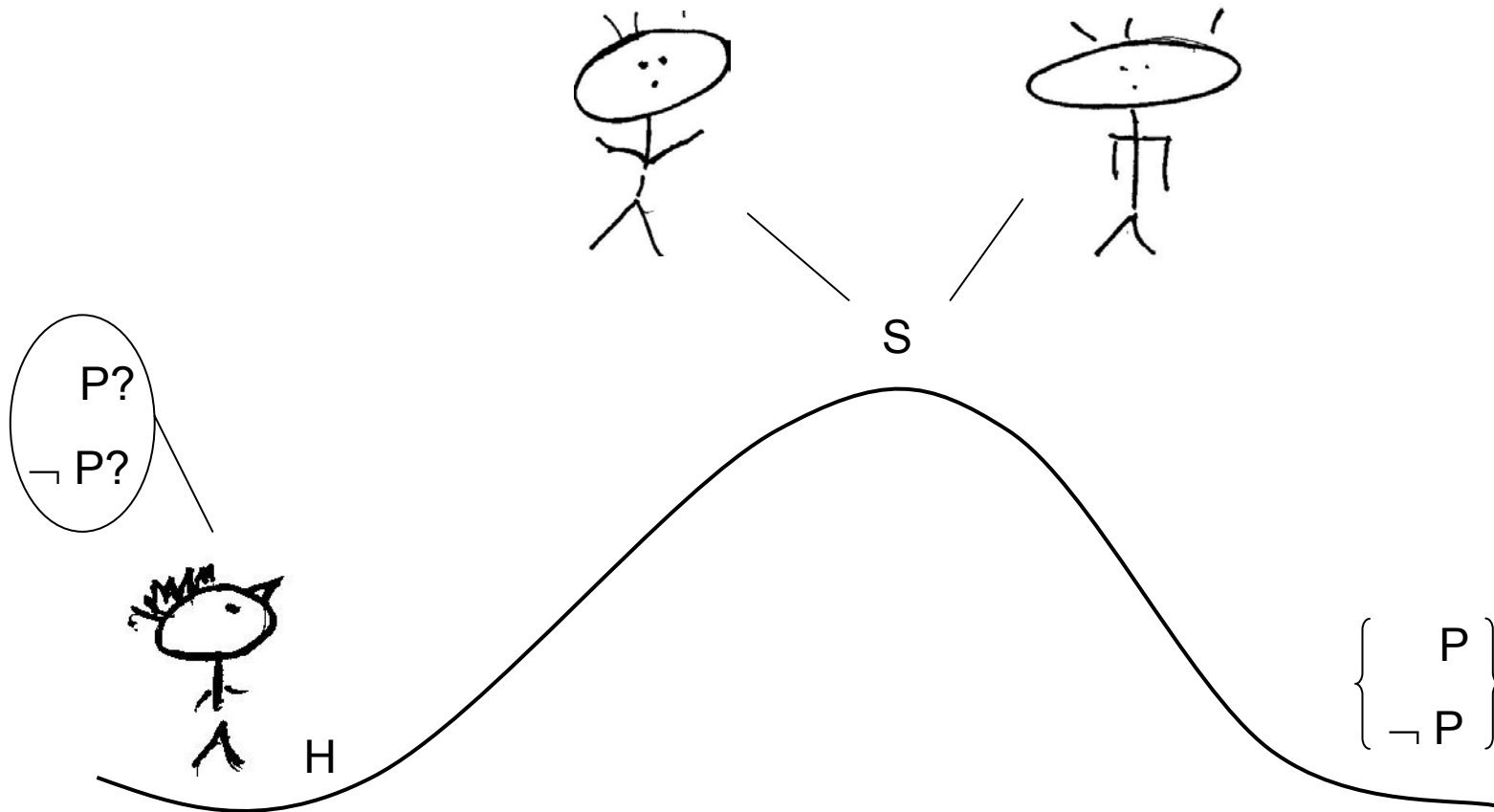
(UE)B_S [C-UNDERSTANDING iff C-ATTEMPT]

???

V Paradise Valley

V.1

The Picture



V.2 Analysis

Keep in mind: $P = \{S, H\}$

V.2.1 Common Interest (CI)

$W_H(\alpha)$

(α) $[B_H p \text{ iff } p] \ \& \ [B_H \neg p \text{ iff } \neg p]$

$W_S(\alpha)$

$W_P(\alpha)$

V.2.2 Common Strategy (CS)


S-Component

 iff p

 iff $\neg p$

H-Component

$B_H p$ iff 

$B_H \neg p$ iff 



$(\alpha) [B_H p \text{ iff } p] \& [B_H \neg p \text{ iff } \neg p]$

V.2.3 Common Knowledge of (CI) & (CS)

(CI) Common Interest

(CS) Common Strategy

V.2.4 Conventional Meaning



(CS) is a CONVENTION in P – and  and  do have the CONVENTIONAL MEANING in P , that p or $\neg p$, respectively - **iff**

(i) Common Knowledge in P of (CI) & (CS)

(ii) (CS) is a REGULARITY in P

(iii) (CS) solves a COORDINATION PROBLEM



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(CS) solves a COORDINATION PROBLEM iff there is a possible Alternative Strategy which would do the same job, i.e. of securing fulfilment of the Common Interest (α).

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Now, in **Paradise Valley** there is a possible alternative strategy which combines – both in the S- and in its H-components - the  and  just the other way round.

Therefore: In Paradise Valley (CS) is a C-Convention.

C-CONVENTIONS in P are Social Facts $_P$

CONVENTION $_P$ iff

COMMON-KNOWLEDGE $_P$: CONVENTION $_S$

VIReal World Communication

Paradise lost in consequence (of our recognition) of:

Error

$B_S p$ & $\neg p$

Deception / Lies $W_S B_H p$ & $B_S \neg p$

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Paradise lost in consequence (of our recognition) of:

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Communicative Normality Presumption

(CNP): $\neg(1)$ & $\neg(2)$

VI Real World Communication

Paradise lost in consequence (of our recognition) of:

Error $B_S p \ \& \ \neg p$

Deception $W_S B_H p \ \& \ B_S \neg p$

Communicative Normality Presumption

(CNP): $\neg(1) \ \& \ \neg(2)$

Paradise lost: No guaranty, that (CNP)

Nevertheless: Also in Real World Some Presumption of Paradise necessary.

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Big Problem: How **weak** may these presumptions be in order to be **strong enough** to preserve MEANING-STABILITY in P ?

VII Communication in general

C^0 our Basic C-Concept:

$C^0 := ???$ [\[1\]](#)

C^0 definable exclusively in action-theoretical terms
(Doing, Belief, Want).

[\[1\]](#) Main conditions of adequacy:

$C^0(S,H,p) \rightarrow W_S B_{H,p}$

$C^0(S,H,p) \rightarrow (SE)$

$(SE) B_S [\mathbf{C-SUCCESS} \text{ iff } \mathbf{C-UNDERSTANDING}]$

$C^0(S,H,p) \rightarrow W_S K_H C^0(S,H,p)$

$C^0(S,H,p) \rightarrow (UE)$

$(UE) B_S [\mathbf{C-UNDERSTANDING} \text{ iff } \mathbf{C-ATTEMPT}]$

$C^0(S,H,p) \rightarrow B_S K_H C^0(S,H,p)$

$C^0(S,H,p) \rightarrow B_S C K_{\{S,H\}} C^0(S,H,p)$

$C^0(S,H,p) \rightarrow W_S C K_{\{S,H\}} C^0(S,H,p)$

VIII Conclusions / Perspectives

This approach:

Action- Based C-Theory

C-Based Semantics of (Forms & Tokens of) Performances & Expressions

Action-Based Semantics

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i.e.: Unified Theory (Actions, C-Actions, C-Understanding, Semantics)

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Ideal Type of Unified Theory: Logics

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Action Theoretical Basis:

Performing

Belief / Knowledge / Understanding

Wants

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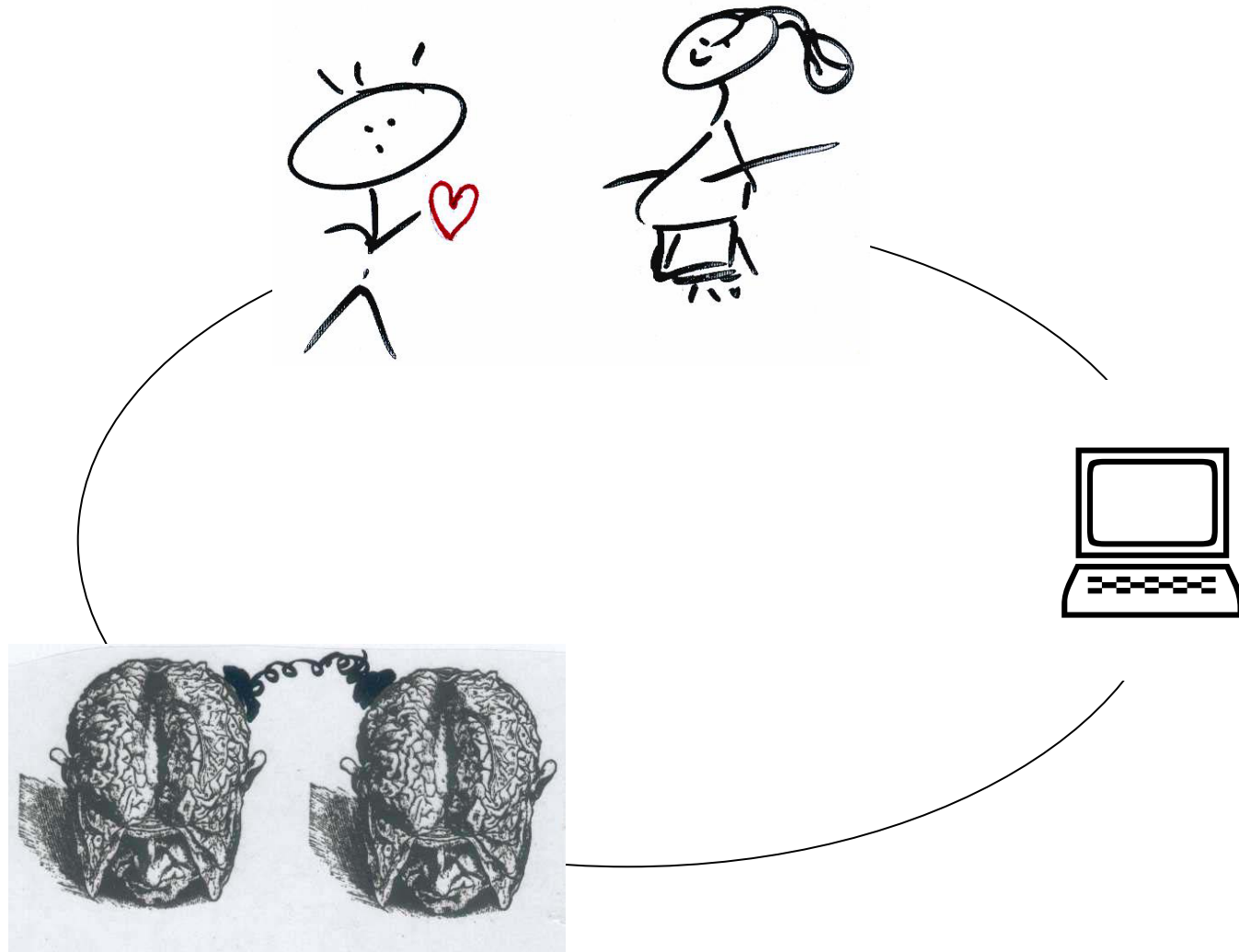
Belief / Knowledge / Understanding

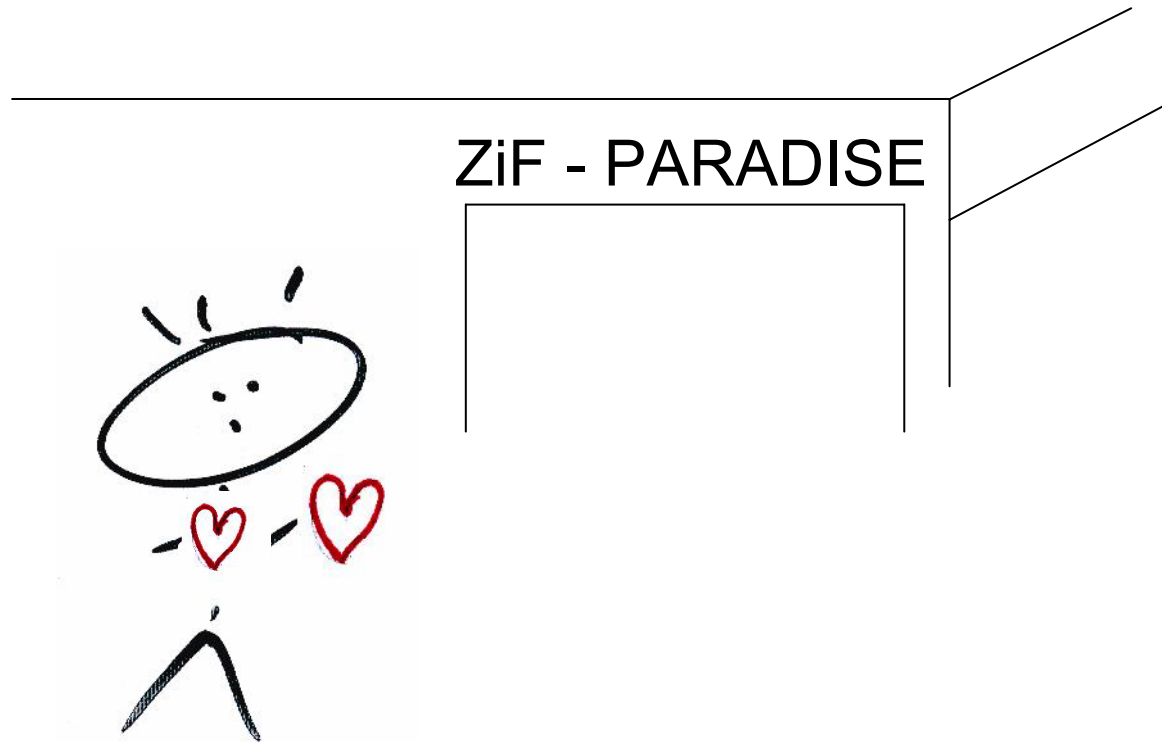
Wants

i.e.: Unified Cognitivist Theory

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As such: Most probably very useful for combining:





GOOD SPEED !