

Cognitive Behavioral Construct States, Equilibriums and Dynamics

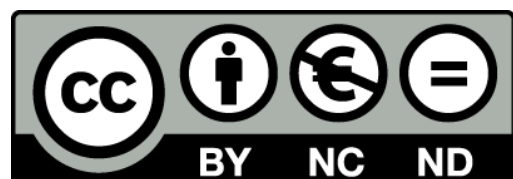
study of behavioral disorders

V 1.3



Cognitive Behavioral Construct
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Symbols

$\bar{\nabla}$	Hypotonic state	$\bar{\triangle}$	Hypertonic state
$\bar{\nabla}\bar{\nabla}$	Allocentric state	$\bar{\triangle}\bar{\triangle}$	Egocentric state
\uparrow	Hypertonic vector	\downarrow	Hypotonic vector
\uparrow_{ext}	Outer hypertonic vector	\downarrow_{ext}	Outer hypotonic vector
\times	Changes in state	∇	Isotonic state
\Rightarrow	Catalyzes a vector	\Leftrightarrow	Homeostatic equilibrium
\rightsquigarrow	Vector applies on	\circlearrowleft ()	Loop in state
W_{α}	Starting Will	W_{β}	Ending Will
W_{\odot}	Will to Live	W_{\exists}	Will to Exist
$W_{()}$	Will in state	W_{ext}	Outer Will
$\Sigma_{()}$	Sum of states	∇	Any state

Structures of the fundamental Wills

$W_{\odot} : W_{\text{.Protection}}, W_{\text{.Food}}, W_{\text{.Rest}}$
 $W_{\exists} : W_{\text{.Stimulation}}, W_{\text{.Feedback}}, W_{\text{.Structure}} \quad W_{\alpha}, W_{\beta}$

Descriptions of the Wills states

Will to Live W_{\odot}

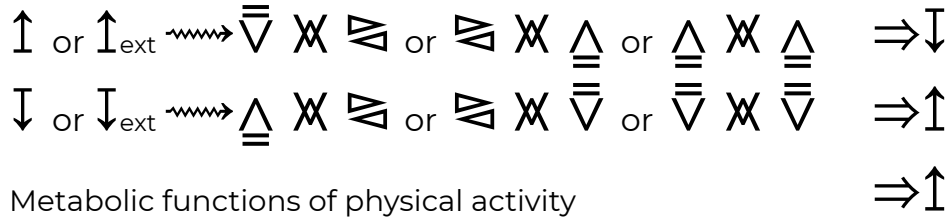
Will to Exist W_{\exists}

$\bar{\triangle}\bar{\triangle}$				Insensitivity	Renowned	Impunity
$\bar{\triangle}$	Securing	Ingesting	Sleeping	Indolence	Existential	Autonomy
W	Protection	Food	Rest	Stimulation	Feedback	Structure
∇	Exposure	Ejecting	Waking up	Sensitivity	Behavioral	Conformity
$\bar{\nabla}\bar{\nabla}$				Hypersensitivity	Anonymity	Servility

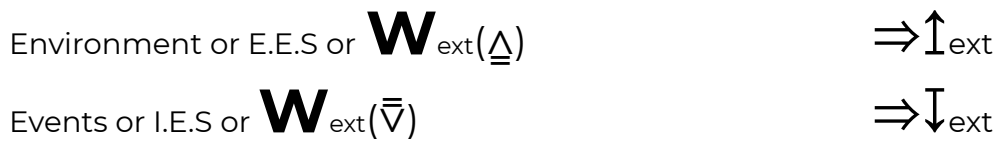
Dynamics

Vectors generation

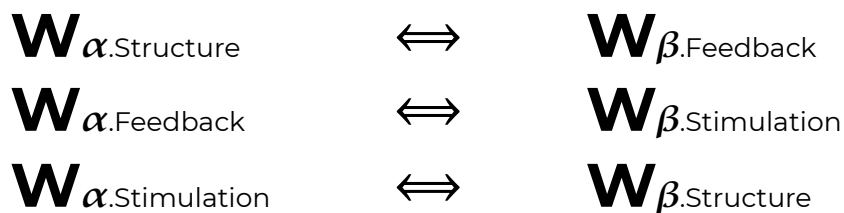
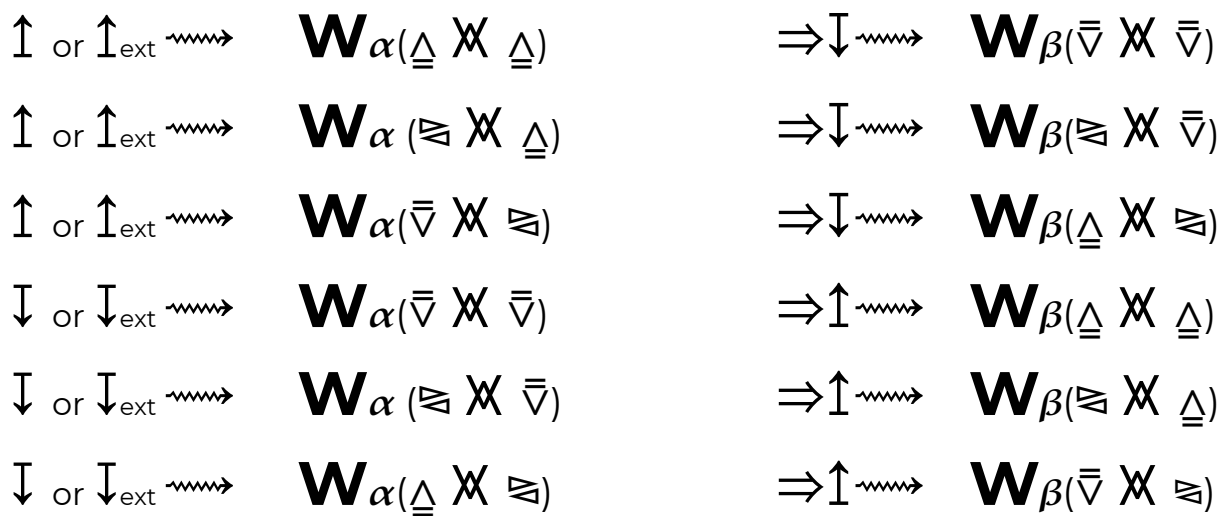
Internal vectors



External Vectors



Homeostatic equilibriums $\mathbf{W}_{\alpha} \leftrightarrow \mathbf{W}_{\beta}$



Fundamental Wills equilibriums

Psycho-somatics equilibriums $\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}$

$$\mathbf{W}_{\beta} \Rightarrow \uparrow \rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\odot} \text{ and } (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists})$$

$$\mathbf{W}_{\beta} \Rightarrow \downarrow \rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}) \Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\odot} \text{ and } (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists})$$

Somato-psychics equilibriums $\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}$

$$\uparrow \text{ or } \uparrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\odot} \text{ and } (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\alpha}$$

$$\downarrow \text{ or } \downarrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\odot} \text{ and } (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\alpha}$$

Fundamental homeostatic equilibriums

$$\mathbf{W}_{\beta} \Rightarrow \uparrow \rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}) \Rightarrow \downarrow \rightsquigarrow (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\alpha}$$

$$\mathbf{W}_{\beta} \Rightarrow \downarrow \rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}) \Rightarrow \uparrow \rightsquigarrow (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\alpha}$$

Behavioral disorders

Behavioral disorders descriptions

The Will to Exist hypertonia **W** $\exists(\underline{\underline{\Delta}})$

Narcissism

W.Stimulation($\underline{\underline{\Delta}}\underline{\underline{\Delta}}$)**W**.Feedback($\underline{\underline{\Delta}}\underline{\underline{\Delta}}$) **W**.Structure($\underline{\underline{\Delta}}\underline{\underline{\Delta}}$)

Egocentric disorders - Maniacal

$$\sum(\underline{\underline{\Delta}}) > \sum(\bar{\bar{V}})$$

The Will to Exist hypotonia **W** $\exists(\bar{\bar{V}})$

Echoism

W.Stimulation($\bar{\bar{V}}\bar{\bar{V}}$)**W**.Feedback($\bar{\bar{V}}\bar{\bar{V}}$) **W**.Structure($\bar{\bar{V}}\bar{\bar{V}}$)

Allocentric disorders - Depression

$$\sum(\bar{\bar{V}}) > \sum(\underline{\underline{\Delta}})$$

Behavioral loops

The behavior in a hypertonic loop is repeated while in a hypotonic loop the behavior is prevented

Hypertonic behavioral loops $\text{↻}(\underline{\underline{\Delta}})$

Trigger:

Events or E.I.S or $\mathbf{W}_{\text{ext}}(\bar{\bar{V}})$ $\Rightarrow \downarrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\bar{\bar{V}})$ and $\uparrow \rightsquigarrow \mathbf{W}_{\beta}(\underline{\underline{\Delta}})$
 If $\uparrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\bar{\bar{V}}) \not\bowtie \Xi$ $\Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\beta}(\underline{\underline{\Delta}}) \not\bowtie \Xi$ no trigger

Hypertonic behavioral loop description

$\downarrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\bar{\bar{V}})$ $\Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\beta}(\underline{\underline{\Delta}})$ $\Rightarrow \downarrow \leftarrow$ Trigger
 $\rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot})$ $\Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\odot}(\Xi \not\bowtie \underline{\underline{\Delta}})$
 and $\Rightarrow \uparrow \rightsquigarrow (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\alpha}(\bar{\bar{V}}) \dots$

Protection Hypertonic loop - Anxiety

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Protection}}(\Xi \not\bowtie \underline{\underline{\Delta}})$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\text{Stimulation}}(\nabla) \mathbf{W}_{\beta.\text{Feedback}}(\underline{\underline{\Delta}}) \mathbf{W}_{\alpha.\text{Structure}}(\bar{\bar{V}})$

Food Hypertonic loop - Bulimia

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Food}}(\Xi \not\bowtie \underline{\underline{\Delta}})$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\beta.\text{Stimulation}}(\underline{\underline{\Delta}}) \mathbf{W}_{\alpha.\text{Feedback}}(\bar{\bar{V}}) \mathbf{W}_{\text{Structure}}(\nabla)$

Rest Hypertonic loop - Hypersomnia

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Rest}}(\Xi \not\bowtie \underline{\underline{\Delta}})$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\alpha.\text{Stimulation}}(\bar{\bar{V}}) \mathbf{W}_{\text{Feedback}}(\nabla) \mathbf{W}_{\beta.\text{Structure}}(\underline{\underline{\Delta}})$

Hypotonic behavioral loops $\mathcal{C}(\bar{V})$

Trigger :

Environment ou E.E.S or $\mathbf{W}_{\text{ext}}(\underline{\Delta}) \Rightarrow \uparrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\underline{\Delta})$ et $\downarrow \rightsquigarrow \mathbf{W}_{\beta}(\bar{V})$
 If $\downarrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\underline{\Delta}) \not\bowtie \Xi$ $\Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\beta}(\bar{V}) \not\bowtie \Xi$ no trigger

Hypotonic behavioral loop Description

$\uparrow_{\text{ext}} \rightsquigarrow \mathbf{W}_{\alpha}(\underline{\Delta}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\beta}(\bar{V}) \Rightarrow \uparrow \leftarrow \text{Trigger}$
 $\rightsquigarrow (\mathbf{W}_{\exists} \leftrightarrow \mathbf{W}_{\odot}) \Rightarrow \downarrow \rightsquigarrow \mathbf{W}_{\odot}(\underline{\Delta}) \not\bowtie \Xi$
 and $\Rightarrow \downarrow \rightsquigarrow (\mathbf{W}_{\odot} \leftrightarrow \mathbf{W}_{\exists}) \Rightarrow \uparrow \rightsquigarrow \mathbf{W}_{\alpha}(\underline{\Delta}) \dots$

Protection Hypotonic loop - Stoicism

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Protection}}(\underline{\Delta}) \not\bowtie \Xi$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\text{Stimulation}}(\nabla) \mathbf{W}_{\beta.\text{Feedback}}(\bar{V}) \mathbf{W}_{\alpha.\text{Structure}}(\underline{\Delta})$

Food Hypotonic loop - Anorexia

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Food}}(\underline{\Delta}) \not\bowtie \Xi$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\beta.\text{Stimulation}}(\bar{V}) \mathbf{W}_{\alpha.\text{Feedback}}(\underline{\Delta}) \mathbf{W}_{\text{Structure}}(\nabla)$

Rest Hypotonic loop - Insomnia

$\mathbf{W}_{\odot} : \mathbf{W}_{\text{Rest}}(\underline{\Delta}) \not\bowtie \Xi$
 $\mathbf{W}_{\exists} : \mathbf{W}_{\alpha.\text{Stimulation}}(\underline{\Delta}) \mathbf{W}_{\text{Feedback}}(\nabla) \mathbf{W}_{\beta.\text{Structure}}(\bar{V})$

Behavioral loops homeostatic equilibriums

$\mathcal{C}(\underline{\Delta}) \Rightarrow \mathcal{C}(\bar{V})$ or $\mathcal{C}(\bar{V}) \Rightarrow \mathcal{C}(\underline{\Delta})$ $\mathcal{C}(\underline{\Delta}) \leftrightarrow \mathcal{C}(\bar{V})$

Homeostatic equilibrium behavioral loops combinations

Protection Loops

$\text{Protection}(\underline{\Delta})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta} \alpha \bar{V}) +$	
$\text{Rest}(\bar{V})$	$\mathbf{W} \exists (\alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V}) \beta \bar{V}) \Rightarrow \mathbf{W} \exists ((\alpha \underline{\Delta}) \beta \underline{\Delta} \alpha \beta \bar{V} \bar{V})$	$\mathbf{W}.$ Structure($\bar{V} \bar{V}$)
$\text{Food}(\bar{V})$	$\mathbf{W} \exists (\beta \bar{V} \alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V})) \Rightarrow \mathbf{W} \exists ((\beta \bar{V}) \alpha \beta \underline{\Delta} \underline{\Delta} \alpha \bar{V})$	$\mathbf{W}.$ Feedback($\underline{\Delta} \underline{\Delta}$)
$\text{Protection}(\bar{V})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \bar{V} \alpha \underline{\Delta}) +$	
$\text{Rest}(\underline{\Delta})$	$\mathbf{W} \exists (\alpha \bar{V} (\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta}) \Rightarrow \mathbf{W} \exists ((\alpha \bar{V}) \beta \bar{V} \alpha \beta \underline{\Delta} \underline{\Delta})$	$\mathbf{W}.$ Structure($\underline{\Delta} \underline{\Delta}$)
$\text{Food}(\underline{\Delta})$	$\mathbf{W} \exists (\beta \underline{\Delta} \alpha \bar{V} (\underline{\Delta}_{ou} \bar{V})) \Rightarrow \mathbf{W} \exists ((\underline{\Delta} \beta) \alpha \beta \bar{V} \bar{V} \alpha \underline{\Delta})$	$\mathbf{W}.$ Feedback($\bar{V} \bar{V}$)

Food Loops

$\text{Food}(\underline{\Delta})$	$\mathbf{W} \exists (\beta \underline{\Delta} \alpha \bar{V} (\underline{\Delta}_{ou} \bar{V})) +$	
$\text{Protection}(\bar{V})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \bar{V} \alpha \underline{\Delta}) \Rightarrow \mathbf{W} \exists (\beta \underline{\Delta} \alpha \beta \bar{V} \bar{V} (\alpha \underline{\Delta}))$	$\mathbf{W}.$ Feedback($\bar{V} \bar{V}$)
$\text{Rest}(\bar{V})$	$\mathbf{W} \exists (\alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V}) \beta \bar{V}) \Rightarrow \mathbf{W} \exists (\alpha \beta \underline{\Delta} \underline{\Delta} \alpha \bar{V} (\beta \bar{V}))$	$\mathbf{W}.$ Stimulation($\underline{\Delta} \underline{\Delta}$)
$\text{Food}(\bar{V})$	$\mathbf{W} \exists (\beta \bar{V} \alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V})) +$	
$\text{Protection}(\underline{\Delta})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta} \alpha \bar{V}) \Rightarrow \mathbf{W} \exists (\beta \bar{V} \alpha \beta \underline{\Delta} \underline{\Delta} (\alpha \bar{V}))$	$\mathbf{W}.$ Feedback($\underline{\Delta} \underline{\Delta}$)
$\text{Rest}(\underline{\Delta})$	$\mathbf{W} \exists (\alpha \bar{V} (\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta}) \Rightarrow \mathbf{W} \exists (\alpha \beta \bar{V} \bar{V} \alpha \underline{\Delta} (\beta \underline{\Delta}))$	$\mathbf{W}.$ Stimulation($\bar{V} \bar{V}$)

Rest Loops

$\text{Rest}(\underline{\Delta})$	$\mathbf{W} \exists (\alpha \bar{V} (\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta}) +$	
$\text{Food}(\bar{V})$	$\mathbf{W} \exists (\beta \bar{V} \alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V})) \Rightarrow \mathbf{W} \exists (\alpha \beta \bar{V} \bar{V} (\alpha \underline{\Delta}) \beta \underline{\Delta})$	$\mathbf{W}.$ Stimulation($\bar{V} \bar{V}$)
$\text{Protection}(\bar{V})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \bar{V} \alpha \underline{\Delta}) \Rightarrow \mathbf{W} \exists (\alpha \bar{V} (\beta \bar{V}) \alpha \beta \underline{\Delta} \underline{\Delta})$	$\mathbf{W}.$ Structure($\underline{\Delta} \underline{\Delta}$)
$\text{Rest}(\bar{V})$	$\mathbf{W} \exists (\alpha \underline{\Delta} (\underline{\Delta}_{ou} \bar{V}) \beta \bar{V}) +$	
$\text{Food}(\underline{\Delta})$	$\mathbf{W} \exists (\beta \underline{\Delta} \alpha \bar{V} (\underline{\Delta}_{ou} \bar{V})) \Rightarrow \mathbf{W} \exists (\alpha \beta \underline{\Delta} \underline{\Delta} (\alpha \bar{V}) \beta \bar{V})$	$\mathbf{W}.$ Stimulation($\underline{\Delta} \underline{\Delta}$)
$\text{Protection}(\underline{\Delta})$	$\mathbf{W} \exists ((\underline{\Delta}_{ou} \bar{V}) \beta \underline{\Delta} \alpha \bar{V}) \Rightarrow \mathbf{W} \exists (\alpha \underline{\Delta} (\beta \underline{\Delta}) \alpha \beta \bar{V} \bar{V})$	$\mathbf{W}.$ Structure($\bar{V} \bar{V}$)