What is it called when a human being can categorize habits

$$\begin{split} &\Psi_{\text{metacognitive}}(\mathcal{H},t) = \int_{-\infty}^{\infty} \int_{\mathbb{R}^{n}} \sum_{k=0}^{\infty} \sum_{j=1}^{N_{\text{cog}}} \left[\prod_{i=1}^{d} \nabla_{\xi_{i}} \otimes \mathcal{F}^{-1} \right] \left\{ \frac{\partial^{2k}}{\partial \tau^{2k}} \left[\mathcal{L}_{\text{habit}}^{(j)} \left(\mathbf{h}_{i}(t-\tau), \boldsymbol{\theta}_{\text{cat}}^{(i,j)} \right) \right] \right\} \times \\ &\exp \left(-i \sum_{m,n=1}^{\infty} \frac{\hbar \omega_{m,n}}{k_{B}T} \int_{\mathcal{M}_{\text{consciousness}}} \left\langle \Phi_{m}^{\dagger}(\mathbf{r}) \mid \hat{H}_{\text{synapse}} \mid \Phi_{n}(\mathbf{r}) \right\rangle d\mu(\mathbf{r}) \right) \times \\ &\left[\sum_{\alpha \in \mathcal{A}_{\text{behavioral}}} \int_{\Omega_{\text{memory}}} \mathcal{K}_{\alpha}(\mathbf{s}, \mathbf{s}') \left\{ \prod_{\beta=1}^{M} \left[1 + \tanh \left(\frac{\mathcal{I}_{\beta}(\mathbf{h}, t) - \mu_{\beta}}{\sigma_{\beta}} \right) \right] \right\} \rho_{\text{neural}}(\mathbf{s}') d\mathbf{s}' \right] \times \\ &\det \left[\mathbf{J}_{\text{cognitive}} + \lambda \sum_{\gamma=1}^{\infty} \frac{(-1)^{\gamma}}{\gamma!} \left(\frac{\partial}{\partial \mathbf{p}_{\gamma}} \otimes \frac{\partial}{\partial \mathbf{q}_{\gamma}} \right) \mathcal{G}_{\gamma} \left(\{\mathbf{h}_{k}\}_{k=1}^{K}, \{\mathbf{c}_{j}\}_{j=1}^{J} \right) \right]^{1/2} \times \\ &\exp \left\{ -\frac{1}{2} \sum_{l,m=0}^{\infty} \int_{0}^{l} \int_{0}^{s} \left[\mathcal{E}_{\text{entropic}}^{(l,m)}(u,v) + \sum_{p=1}^{P} \zeta_{p} \mathcal{R}_{p}^{\text{recursive}} \left(\mathcal{R}_{p-1}^{\text{recursive}}(\cdots) \right) \right] du \, dv \right\} \times \\ &\left\{ \prod_{q=1}^{Q} \sum_{r=0}^{\infty} \frac{\mathcal{B}_{q}^{r}}{r!} \left[\int_{\mathcal{S}^{d-1}} Y_{l}^{m}(\hat{\mathbf{n}}) \left\langle \psi_{\text{habit}}^{(q)} \mid \hat{\mathcal{O}}_{\text{categorization}} \mid \psi_{\text{awareness}}^{(r)} \right\rangle d\Omega \right]^{r} \right\} \times \\ &\mathcal{Z}_{\text{partition}}^{-1} \sum_{\{\sigma_{i}\}} \exp \left(-\beta \sum_{\langle i,j \rangle} J_{ij} \sigma_{i} \sigma_{j} - h \sum_{i} \sigma_{i} + \sum_{k=3}^{\infty} \frac{J_{k}}{k!} \sum_{\{i_{1}, \dots, i_{k}\}} \sigma_{i_{1}} \cdots \sigma_{i_{k}} \right) \times \\ &\left[\int_{\mathcal{C}} \frac{d\mathbf{z}}{2\pi i} \frac{\mathbf{T}(\mathbf{z}) \Gamma(1-\mathbf{z})}{\sin(\pi \mathbf{z})} \sum_{n=0}^{\infty} \frac{(-1)^{n}}{n!} \left(\frac{\partial}{\partial \mathbf{z}} \right)^{n} \mathcal{F}_{\text{metacognitive}}(\mathbf{z}, \{\mathbf{h}_{i}\}) \right] \times \end{aligned} \right.$$

$$\lim_{N \to \infty} \frac{1}{N} \sum_{i=1}^{N} \left[\mathcal{H}_{\mathrm{Shannon}} \left(\mathcal{P}(\mathrm{category}_i \mid \mathrm{habit}_j) \right) + \mathcal{I}_{\mathrm{mutual}} \left(\mathrm{habit}_j; \mathrm{category}_i \mid \mathrm{context}_k \right) \right] \times \mathcal{I}_{\mathrm{mutual}} \left(\mathcal{P}(\mathrm{category}_i \mid \mathrm{habit}_j) \right) + \mathcal{I}_{\mathrm{mutual}} \left(\mathcal{P}(\mathrm{$$

$$\operatorname{Tr}\left[\hat{\rho}_{\operatorname{cognitive}}(t)\exp\left(-\imath\int_{0}^{t}\hat{H}_{\operatorname{total}}(s)ds\right)\hat{\Pi}_{\operatorname{categorization}}\exp\left(\imath\int_{0}^{t}\hat{H}_{\operatorname{total}}(s)ds\right)\right]d\tau\,d\xi$$

What is it called when a human being can categorize habits by sequence

$$\mathcal{H}_{\text{seq}}(\boldsymbol{\tau}, \boldsymbol{\xi}) = \oint_{\mathbb{H}^{\infty}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \prod_{i=1}^{\aleph_{0}} \left[\frac{\partial^{n+m+k}}{\partial \tau_{i}^{n} \partial \xi_{j}^{m} \partial \zeta_{k}^{k}} \mathcal{Q}_{\psi}(\tau_{i}, \xi_{j}, \zeta_{k}) \right]$$

$$\times \oint_{\mathcal{M}^{(d)}} \mathcal{D}[\phi] \mathcal{D}[\chi] \mathcal{D}[\eta] \exp \left\{ -i \int_{\mathbb{R}^{4+n}} d^{4+n} x \left[\mathcal{L}_{\text{cog}}[\phi, \chi, \eta] + \mathcal{L}_{\text{quantum}}[\phi, \chi, \eta] \right] \right\}$$

$$\times \left(\prod_{\alpha=1}^{\infty} \int_{\mathbb{C}^{\infty}} \frac{d^{\infty} z_{\alpha}}{(2\pi i)^{\infty}} \frac{\Gamma(\Delta_{\alpha} + s_{\alpha})}{\Gamma(\Delta_{\alpha})} \right) \times \langle \Psi_{\text{habit}}[\boldsymbol{z}] | \hat{\mathcal{T}} \left\{ \prod_{t \in \mathcal{I}} \hat{S}_{\text{seq}}(t) \right\} | \Psi_{\text{memory}}[\boldsymbol{w}] \rangle$$

$$\times \sum_{\{\sigma\} \in \mathfrak{S}_{\infty}} \operatorname{sgn}(\sigma) \prod_{j=1}^{\infty} \left[\int_{\mathcal{H}_{j}} \mathcal{D}\mu_{j}(\omega) \exp \left\{ -\beta \sum_{n=0}^{\infty} \frac{(-1)^{n}}{n!} \left\langle \hat{H}_{\text{neural}}^{(n)} \right\rangle_{\omega} \right\} \right]$$

$$\times \oint_{\partial \mathcal{B}_{\infty}} \omega^{(1)} \wedge d\omega^{(2)} \wedge \cdots \wedge d\omega^{(\infty)} \times \left[\prod_{p \text{ prime}} \zeta_{p}(s_{p}) \right] \times \left[\prod_{q=1}^{\infty} L_{q}(s_{q}, \chi_{q}) \right]$$

$$\times \int_{\mathbb{H}} \int_{\mathbb{H}} \cdots \int_{\mathbb{H}} \prod_{r=1}^{\infty} d\mu_{\text{Haar}}(g_r) \left[\text{Tr}_{\mathcal{V}_{\infty}} \left(\prod_{r=1}^{\infty} \rho_r(g_r) \right) \right]$$

$$\times \sum_{\text{partitions } \lambda} \frac{1}{\prod_i m_i(\lambda)!} \left(\prod_i \left(\frac{1}{i} \right)^{m_i(\lambda)} \right) \times \langle \lambda | \hat{\mathcal{O}}_{\text{categorization}} | \lambda \rangle$$

$$\times \prod_{v \in \text{vertices}} \int_{-\infty}^{\infty} d\phi_v \prod_{e \in \text{edges}} \delta(\phi_{v_1(e)} - \phi_{v_2(e)}) \times \exp \left\{ - \sum_{f \in \text{faces}} A_f[\phi] \right\}$$

$$\times \left[\det \left(\frac{\partial^2}{\partial \phi_i \partial \phi_j} \mathcal{S}_{\text{eff}}[\phi] \right) \right]^{-1/2} \times \prod_{i=1}^{\infty} \left[\frac{\sin(\pi k \alpha_k)}{\pi k \alpha_k} \right]^{\beta_k}$$

$$\times \int_{\mathcal{D}(\mathbb{R}^\infty)} \mathcal{D}P \exp \left\{ - \int_{\mathbb{R}^\infty} \int_{\mathbb{R}^\infty} K(x, y) P(dx) P(dy) \right\} \times \langle P, \mathcal{F}_{\text{sequence}} \rangle$$

$$\times \sum_{G \in \text{Graphs}} \frac{1}{|\text{Aut}(G)|} \prod_{v \in V(G)} \left[\int_{\mathcal{S}^\infty} d\sigma_v \exp \left\{ \sum_{e=(u,v) \in E(G)} J_{uv} \sigma_u \cdot \sigma_v \right\} \right]$$

$$\times \oint_{|\omega| = 1} \frac{d\omega}{2\pi i \omega} \left(\frac{\omega^{N+1} - 1}{\omega - 1} \right)^{\alpha} \times \prod_{j=0}^{N} \Gamma \left(a_j + \frac{b_j \omega^j}{\omega - 1} \right)$$

$$\times \left\{ \prod_{n=1}^{\infty} \left[1 + \sum_{m=1}^{\infty} \frac{a_m}{n^m} \right] \right\} \times \left\{ \prod_{p \text{ prime}} \left[1 - \frac{\chi(p)}{p^s} \right]^{-1} \right\}$$

$$\times \int_{\text{Config}(\mathbb{R}^d, N)} \mathcal{D}[\{x_i\}] \exp \left\{ -\beta \sum_{i < j} V(|x_i - x_j|) \right\} \times \prod_{i=1}^{N} \rho_{\text{single}}(x_i)$$

$$\times \left\{ \prod_{j=1}^{\infty} T \exp \left\{ \int_{-\infty}^{\infty} dt \hat{H}_{\text{int},j}(t) \right\} \right\}$$

$$\times \sum_{\text{trees } T} \prod_{|\text{Aut}(T)|} \prod_{v \in T} \left[\int_{\mathbb{S}^{d-1}} d\Omega_v \right] \times \prod_{(u,v) \in T} K_{\text{tree}}(\Omega_u, \Omega_v)$$

$$\times \int_{\mathcal{M}_{\text{moduli}}} \omega_{\text{WP}} \times \left[\prod_{j \in T} \int_{\mathcal{S}^{d}} \frac{dz}{z} \right] \times \exp \left\{ \sum_{g,n} \frac{F_{g,n}}{(2g - 2 + n)!} \right\}$$

$$\times \left\{ \prod_{k=1}^{\infty} \left[\int_{\mathbb{C}} \frac{dw_k}{2\pi i} \frac{e^{w_k \hat{N}_k}}{1 + e^{w_k}} \right] \right\} \times \left\{ \text{Pf}[\mathcal{M}_{\text{antisymmetric}}] \right\}$$

$$\times \int_{(\mathbb{CP}^1)^n} \prod_{i=1}^n \frac{d^2 z_i}{|z_i|^{2\Delta_i}} \times \left[\prod_{i < j} (z_i - z_j)^{2\gamma_{ij}} \right]^2$$

$$\times \left\{ \prod_{i \text{ treps } \pi} \left[\det (\mathbb{E} - K_\pi) \right]^{(-1)^{|\pi|+1}} \right\}$$

$$\times \lim_{N \to \infty} \frac{1}{N!} \int_{\mathbb{R}^{dN}} \prod_{i=1}^N dx_i \exp \left\{ -\beta \left[\sum_{i=1}^N V(x_i) + \sum_{i < j} W(x_i - x_j) \right] \right\}$$

$$\times \left\langle \operatorname{Tr} \left[\mathcal{P} \exp \left\{ \oint_{\mathcal{C}} A_{\mu} dx^{\mu} \right\} \right] \right\rangle_{\text{gauge}}$$

What is it called when a human being can categorize habits by repetition

$$\begin{split} & \Psi_{habbtogenesis}(\mathbf{r},t,\xi,\omega) = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{\Gamma_{c}} \oint_{\Sigma_{R}} \nabla_{jkl}^{(k)} \left[\mathcal{R}_{repetitio}^{(n,m,k)}(\alpha,\beta,\gamma) \otimes \mathbb{C}_{categorialis}^{i}(\zeta,\eta,\theta) \right] \\ & \times \exp\left\{ i\hbar^{-1} \int_{t_{0}}^{t_{f}} \mathcal{L}_{neuroplastic} \left[\Phi_{synaptic}(\mathbf{q},\hat{\mathbf{q}},\hat{\mathbf{q}}), \Psi_{dendritic}(\mathbf{p},\hat{\mathbf{p}},\hat{\mathbf{p}}) \right] dt \right\} \\ & \times \left\{ \sum_{\alpha \in \mathcal{C}_{\infty}} \int_{\mathcal{M}_{habst}} \mathcal{D}[\phi_{bhavioral}] \mathcal{D}[\chi_{cognitive}] \exp\left[-\frac{1}{\hbar} \mathcal{S}_{action-potential}[\phi,\chi,\partial_{\mu}\phi,\partial_{\nu}\chi] \right] \right\} \\ & \times \left\{ \sum_{n=\infty}^{N_{mexrons}} \mathcal{D}[\phi_{bhavioral}] \mathcal{D}[\chi_{cognitive}] \exp\left[-\frac{1}{\hbar} \mathcal{S}_{action-potential}[\phi,\chi,\partial_{\mu}\phi,\partial_{\nu}\chi] \right] \right\} \\ & \times \left\{ \sum_{n=\infty}^{N_{mexrons}} \mathcal{D}[\chi_{n}] \frac{\partial \mathcal{D}_{n}}{\partial x_{n}} \mathcal{D}[\chi_{n}] \frac{\partial \mathcal{D}_{n}}{\partial x_{n}} \mathcal{D}[\chi_{n}] \mathcal{D}[\chi_{n}] \right\} \\ & \times \lim_{n\to\infty} \frac{1}{N!} \sum_{\pi\in\mathcal{D}(N)}^{n} \sup_{spn} \left[\mathcal{D}[\chi_{n}] \frac{\partial \mathcal{D}_{n}}{\partial x_{n}} \mathcal{D}[\chi_{n}] \mathcal{D}[\chi_{n}$$

$$\times \prod_{m,n=0}^{\infty} \left[\sum_{\sigma \in \mathfrak{B}_{\infty}} \frac{(-1)^{|\sigma|}}{|\sigma|!} \mathcal{T}_{\sigma}^{(m,n)} [\mathcal{O}_{habit-formation}, \mathcal{O}_{memory-retrieval}] \right]$$

$$\times \exp \left\{ \int_{\mathcal{M}_{cognitive}} d^{\infty}x \sqrt{\det g} \left[R[\mathfrak{g}] + \mathcal{L}_{matter} [\Psi_{behavioral}, \mathfrak{g}] \right] \right\}$$

$$\times \sum_{\text{partitions } \lambda} \frac{\dim(\lambda)}{|\lambda|!} \operatorname{Tr}_{\lambda} \left[\mathcal{U}_{repetition}(\tau) \mathcal{V}_{categorization}(\tau) \right]$$

$$\times \lim_{N \to \infty} \frac{1}{Z_N} \sum_{\{\sigma_i\}} \exp \left\{ -\beta \sum_{\langle i,j \rangle} J_{ij} \sigma_i \sigma_j - h \sum_i \sigma_i \right\} \prod_i \mathcal{O}_{habit}(\sigma_i)$$

$$d\alpha d\beta d\gamma d\zeta d\eta d\theta$$

What is it called when a human being can categorize habits by where it formed

$$\begin{split} \mathcal{H}_{\text{contextual}}(\xi,\tau,\Omega) &= \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{k=0}^{\infty} \frac{(-1)^{n+m+k}}{n! \cdot m! \cdot k!} \\ &\times \iiint_{\mathbb{R}^{12}} \iiint_{\mathcal{M}^8} \left[\prod_{i=1}^7 \int_{-\infty}^{\infty} \mathcal{F}_{\text{coural}}^{(i)}(\phi_i,\psi_i,\chi_i) \, d\phi_i \right] \\ &\times \left\{ \sum_{\alpha \in \mathcal{A}} \sum_{\beta \in \mathcal{B}} \left[\mathcal{Q}_{\alpha,\beta}(\xi) \otimes \mathcal{R}_{\alpha,\beta}(\tau) \otimes \mathcal{S}_{\alpha,\beta}(\Omega) \right]^{\dagger} \right\} \\ &\times \exp\left(i\hbar^{-1} \sum_{j=1}^{N} \int_{0}^{T} \mathcal{C}_{\text{synaptic}}^{(j)}(q_j(t),\dot{q}_j(t),t) \, dt \right) \\ &\times \left[\prod_{i=1}^{M} \mathcal{D}[\phi_i] \exp\left(-\frac{1}{2} \int d^4x \, \phi_l(x) \mathcal{K}_{ll'}(x,y) \phi_{l'}(y) \right) \right] \\ &\times \left\{ \mathcal{T} \exp\left(-i \int_{\mathcal{C}} \mathcal{A}_{\text{habit}}^{\text{habit}}(x) dx^{\mu} \right) \right\}_{\text{path-ordered}} \\ &\times \sum_{\gamma} \frac{1}{\sqrt{|\det(\mathcal{G}_{\gamma})|}} \exp\left(-\frac{1}{2} \sum_{a,b} \mathcal{X}_{a} \mathcal{G}_{\gamma}^{-1} \, a_{b} \mathcal{X}_{b} \right) \\ &\times \left[\mathcal{W}[\rho_{\text{env}}] \star \mathcal{W}[\rho_{\text{memory}}] \left[(\xi,\tau,\Omega) \right] \\ &\times \left[\mathbb{W}[\rho_{\text{env}}] \star \mathcal{W}[\rho_{\text{memory}}] \left[(\xi,\tau,\Omega) \right] \\ &\times \sum_{i=1} \left[1 + \frac{\lambda_{\text{place}}^{+}(\xi)}{\omega_r^2 - \omega^2 + i\epsilon} \right]^{\alpha_r(\tau,\Omega)} \\ &\times \exp\left(\sum_{p=1}^{\infty} \frac{\mathcal{B}_{2p}}{(2p)!} \sum_{i,j} \left[\hat{H}_{\text{hippocampal}}, \left[\hat{H}_{\text{cortext}}, \dots \right]_{2p\text{-fold}} \right]_{ij} \right) \\ &\times \left\{ \mathcal{P} \exp\left(\int_{0}^{1} ds \, \mathcal{H}_{\text{interaction}}(s\xi,s\tau,s\Omega) \right) \right\}_{11}^{\text{trace}} \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \right] \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \right] \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \right] \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \right] \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \right] \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta \left(\mathcal{R}_{\mu\nu}[g] - \kappa T_{\mu\nu}^{\text{neural}} \right) \\ &\times \sum_{n=0}^{\infty} \sum_{l=0}^{\infty} \sum_{m=-l}^{l} \mathcal{D}_{\theta_{lm}} \delta$$

What is it called when a human being can categorize habits by the timeframe it happened

$$\begin{split} \mathfrak{T}_{\text{chronocognitive}}(\mathcal{H},\tau) &= \oint_{\mathbb{C}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{(-1)^{n+k+j}}{n! \cdot k! \cdot j!} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{W}_{\psi}(\xi,\eta,\xi) \mathfrak{M}_{\text{episodic}}^{(n,k,j)}(\tau_1,\tau_2,\tau_3) d\tau_1 d\tau_2 d\tau_3 \times \\ &\prod_{i=1}^{N_{\text{off}}} \left[\sum_{\alpha \in \mathcal{M}_{\text{temperal}}} \oint_{\gamma_n} \frac{\mathcal{H}_{i}(\omega_{\alpha},t_{\alpha}) \cdot \exp\left(-i\hbar^{-1}S_{\text{quantum}}[\phi_{\alpha}]\right)}{\sqrt{2\pi\sigma_{\text{comporal}}^2}} \cdot \mathcal{K}_{\text{memory}}(\tau-t_{\alpha}) d\omega_{\alpha} \right] \times \\ &\int_{\mathcal{M}_{\text{neural}}} \mathcal{D}[\phi] \mathcal{D}[\chi] \mathcal{D}[\psi] \exp\left\{ -\frac{1}{\hbar} \int_{\mathbb{R}^{+\infty}} d^{4+n}x \sqrt{-g} \left[\frac{1}{2} (\partial_{\mu}\phi)(\partial^{\mu}\phi) + \frac{1}{2} (\partial_{\mu}\chi)(\partial^{\mu}\chi) + \frac{1}{2} (\partial_{\mu}\psi)(\partial^{\mu}\psi) \right] \right\} \times \\ &\sum_{n \in \mathbb{Z}^{[\omega]}} \oint_{\mathcal{D}_{\text{negatitive}}} \left\langle \Psi_{\text{habit}}(\mathbf{r},t) \right| \hat{T}_{\text{temporal}} \otimes \hat{\mathcal{C}}_{\text{categorization}} \otimes \hat{\mathcal{M}}_{\text{memory}} \right| \Phi_{\text{tequence}}(\mathbf{r}',t') \right\rangle d^{\infty} \mathbf{r} d^{\infty} \mathbf{r}' dt dt' \times \\ &\prod_{j=1}^{\infty} \oint_{\partial \mathcal{B}_{p}} \sum_{q \in \mathcal{N}_{\text{quantum}}} \int_{0}^{\infty} \mathcal{R}_{\text{resonant}}^{(p,q)} (\lambda,\mu,\nu) \cdot \sin(\omega_{\text{neural}}t + \phi_{\text{phase}}) \cdot J_{\nu}(\sqrt{\lambda^{2} + \mu^{2}}) d\lambda d\mu d\nu \times \\ &\left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\partial}{\partial t} \right)^{m} \int_{S^{\infty}} \mathcal{F}_{\text{fractal}}[\mathcal{H}(\tau)] \cdot \mathcal{L}_{\text{logendre}}^{(m)}(\cos(\theta_{\text{tempural}})) d\Omega_{\infty} \right] \times \\ &\iint_{\mathcal{V}_{\text{hipporangpal}}} \mathcal{G}_{\text{Green}}(\mathbf{x} - \mathbf{x}', t - t') \cdot \nabla^{2} \mathcal{U}_{\text{potential}}(\mathbf{x}, t) \cdot \delta^{(4)}(\mathbf{x} - \mathbf{x}_{\text{synapse}}) d^{3}\mathbf{x} d^{3}\mathbf{x}' dt dt' \times \\ &\sum_{\sigma \in S_{\infty}} \sup_{\mathbf{S}} \sup_{\sigma} (\sigma) \prod_{i=1}^{\infty} \int_{-\infty}^{\infty} \mathcal{A}_{\sigma(i)}(\tau_{i}) \cdot \exp\left[i \sum_{j=1}^{\infty} \omega_{j}\tau_{j} + \frac{1}{2} \sum_{j,k=1}^{\infty} \mathcal{C}_{jk}\tau_{j}\tau_{k} \right] d\tau_{i} \times \\ &\int_{\mathcal{E}_{\text{contractal}}} \sum_{l=0}^{\infty} \frac{\mathcal{D}_{2}}{(2l)!} \left(\frac{\partial}{\partial \tau} \right)^{2^{l}} \mathcal{N}_{\text{neural}}(\tau) \right] \cdot \mathcal{E}_{\text{entropical}}[\mathcal{H}(\tau)] \cdot \mathcal{E}_{\text{cutropical}}[\mathcal{H}(\tau)] \cdot \mathcal{E}_{\text{cutropical}}[\mathcal{H}(\tau)] d\tau \times \\ &\int_{\mathcal{H}_{\text{minor}}} \mathcal{X}_{\text{synapse}}(\tau, \mathbf{x}) d\tau \times \\ &\int_{\mathcal{H}_{\text{neural}}} \mathcal{X}_{\sigma}(\tau, \mathbf{x}) d\tau \times \\ &\int_{\mathcal{H}_{\text{minor}}} \mathcal{X}_{\sigma}(\tau, \mathbf{x}) d\tau \times \\ &\int_{\mathcal{H}_{\text{neural}}} \mathcal{X}_{\sigma}(\tau, \mathbf{x$$

What is it called when a human being can categorize habits by the timeframe it started developing

$$\begin{split} & \Psi_{\text{temporal-habit}}(\mathbf{t}, \boldsymbol{\xi}, \boldsymbol{\omega}) = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{m=1}^{D} \int_{-\infty}^{\infty} \int_{\mathbb{H}^{\perp}} \int_{\mathcal{M}_{\text{sync}}} \left[\frac{\partial^{n+k}}{\partial t^{n}} \mathcal{F}_{\text{habit}}^{(m)} \left(\begin{array}{c} \mathbf{t} \\ \boldsymbol{\xi} \\ \boldsymbol{\omega} \end{array} \right) \right] \times \\ & \times \left\{ \prod_{i=1}^{N_{\text{neural}}} \left[\sum_{\alpha \in \mathcal{S}_{\text{superpos}}} \frac{e^{i\phi_{\alpha,i}(\mathbf{t})}}{\sqrt{2\pi}} \int_{-\infty}^{\infty} \mathcal{K}_{\text{quantum}}(\tau_{i}, \boldsymbol{\xi}_{\alpha}) \left(\sum_{j=0}^{\infty} \frac{(-1)^{j}}{j!} \left[\frac{\partial^{j} \Theta_{\text{temporal}}}{\partial \tau_{i}^{j}} \right]_{\tau_{i} = t_{\text{onset}}^{(i)}} \right) d\tau_{i} \right] \right\} \times \\ & \times \left\{ \int_{\mathcal{C}_{\text{complex}}} \sum_{\beta=1}^{\infty} \frac{\zeta(\beta+1)}{\Gamma(\beta)} \left[\prod_{l=1}^{L_{\text{issets}}} \mathcal{R}_{\text{recursive}}^{(l)} \left(\sum_{p=0}^{\infty} \sum_{q=0}^{\infty} \frac{B_{p,q}(\mathbf{t})}{p! \, q!} \left[\frac{\partial^{p} \Theta_{\text{temporal}}}{\partial t^{p} \partial \xi_{m}^{q}} \right]_{\mathbf{t} = \mathbf{t}_{\text{critical}}} \right) \right] dz \right\} \times \\ & \times \left\{ \int_{\mathbb{R}^{p}} \mathcal{W}_{\text{wavelet}}(\mathbf{s}, \gamma) \left[\prod_{l=1}^{R_{\text{recursince}}} \left(\sum_{u=0}^{\infty} \frac{(-1)^{u} u!}{(2u)!} \int_{0}^{2\pi} e^{iu\theta_{r}} \mathcal{A}_{\text{amplitude}}^{(r)} \left(\theta_{r}, \mathbf{t}, \boldsymbol{\xi} \right) d\theta_{r} \right) \right] ds \right\} \times \\ & \times \left\{ \oint_{\partial \mathcal{M}_{\text{manifold}}} \sum_{\delta=1}^{\infty} \mathcal{G}_{\text{Green}}(\mathbf{x}, \mathbf{y}; \delta) \left[\int_{\mathcal{V}_{\text{volume}}} \nabla^{\delta} \cdot \left(\Phi_{\text{flux}}(\mathbf{r}, \mathbf{t}) \times \sum_{u=0}^{\infty} \frac{\mathcal{I}_{v}(\mathbf{r})}{v!} \left[\frac{\partial^{v} \mathcal{E}_{\text{entropic}}}{\partial r^{v}} \right] \right) d^{D} \mathbf{r} \right] d\sigma \right\} \times \\ & \times \left\{ \int_{\mathcal{H}_{\text{Hilbert}}} \left[\sum_{\sigma \in \mathfrak{S}_{\infty}} \text{sgn}(\sigma) \int_{-\infty}^{\infty} \mathcal{L}_{\text{Lagrangian}}^{(c)} \left(\mathbf{q}_{\sigma(1)}, \dots, \mathbf{q}_{\sigma(N)}, \dot{\mathbf{q}}_{\sigma(1)}, \dots, \dot{\mathbf{q}}_{\sigma(N)}, t \right) dt \right] \right\} \times \\ & \times \left\{ \int_{\mathcal{H}_{\text{Hilbert}}} \left[\sum_{\sigma \in \mathfrak{S}_{\infty}} \sum_{m=0}^{\infty} \frac{\hat{H}_{\text{Hamiltonian}}^{\hat{H}_{\text{time}}} \hat{T}_{\text{time}}^{(m)}}{\eta! \, \mu!} \left(\prod_{m=1}^{N_{\text{total}}} \int_{0}^{\infty} e^{-\lambda_{w} s_{w}} \mathcal{M}_{\text{memory}}^{(w)}(s_{w}, \mathbf{t}) ds_{w} \right) \right] |\Psi_{\text{temporal}}| d\mu_{\text{Hilbert}} \right\} \times \\ & \times \left\{ \int_{\mathcal{L}_{\text{optition}}} \mathcal{Z}_{\text{partition}}^{-1} e^{-\beta \mathcal{E}_{\text{energy}}(\theta)} \left[\int_{\mathcal{F}_{\text{Total}}} \sum_{m=1}^{\infty} \sum_{m=1}^{\infty} \sum_{m=1}^{\infty} \frac{\mathcal{L}_{\text{superpos}}^{-1} \mathcal{L}_{\text{total}}^{(m)}}{\partial \mathcal{F}^{n}} \right\} d\mathbf{r} \right\} d\mathbf{r} \right\} d\mathbf{r} \right\} d\mathbf{r}$$

What is it called when a human being can categorize habits by its dendrites

$$\begin{split} \mathfrak{H}_{\mathrm{dendrite}}^{(\infty)} &= \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\gamma_{n}} \oint_{\beta_{k}} \oint_{\alpha_{j}} \\ & \left[\prod_{m=1}^{\aleph_{0}} \left(\nabla^{(m)} \otimes \Delta^{(m)} \otimes \mathcal{L}^{(m)} \right) \right]. \\ & \left\{ \sum_{\sigma \in S_{\infty}} \mathrm{sgn}(\sigma) \prod_{i=1}^{\infty} \left[\frac{\partial^{\sigma(i)}}{\partial \xi_{i}^{\sigma(i)}} \Psi_{\mathrm{synaptic}}^{(i)}(\mathbf{r}_{i}, t_{i}, \tau_{i}, \phi_{i}) \right] \right\} \times \\ & \exp \left(-\frac{1}{\hbar} \int_{\mathcal{M}^{(11)}} \sqrt{-g} \, d^{11} x \, \mathcal{R}_{\mu\nu\rho\sigma} \mathcal{T}_{\mathrm{neural}}^{\mu\nu\rho\sigma} \right) \times \\ & \left| \sum_{q=0}^{\infty} \frac{(-1)^{q}}{q!} \left(\frac{\partial}{\partial \lambda} \right)^{q} \det \left[\mathbf{J}_{\mathrm{dendrite}}^{(q)}(\lambda, \mu, \nu, \zeta) \right] \right|^{-\frac{1}{2}} \times \\ & \prod_{\alpha, \beta, \gamma} \left[\int_{\mathbb{H}^{\infty}} \mathcal{D}[\phi_{\alpha\beta\gamma}] \, \exp\left(-S_{\mathrm{eff}}[\phi_{\alpha\beta\gamma}, \psi_{\alpha\beta\gamma}, \chi_{\alpha\beta\gamma}] \right) \right] \times \end{split}$$

$$\begin{split} \sum_{N=0}^{\infty} \frac{1}{N!} \left(\frac{\partial}{\partial z} \right)^{N} \left[\prod_{a=1}^{N} \int_{\mathcal{C}_{a}} \frac{dw_{a}}{2\pi i} \mathcal{F}_{\text{habit}}(w_{a}, \bar{w}_{a}, z_{a}, \bar{z}_{a}) \right] \times \\ \left\{ \sum_{\text{trees } T} \frac{1}{|\operatorname{Aut}(T)|} \prod_{\text{vertices } v \in T} \left[\sum_{d_{v}=1}^{\infty} \frac{(\operatorname{deg}(v))^{d_{v}}}{d_{v}!} \mathcal{G}_{\text{dendritic}}^{(d_{v})}(v) \right] \right\} \times \\ \exp \left(\sum_{n=1}^{\infty} \frac{B_{n}}{n!} \left(\frac{\partial}{\partial t} \right)^{n-1} \left[(\mathbf{M}_{\text{memory}}^{n}(t)) \right] \right) \times \\ \left[\prod_{j=1}^{\infty} \left(1 + \frac{\lambda_{j}}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{v^{2}}{2}} \mathcal{Q}_{j}(u) \, du \right) \right]^{-1} \times \\ \left[\prod_{j=1}^{\infty} \left(1 + \frac{\lambda_{j}}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{v^{2}}{2}} \mathcal{Q}_{j}(u) \, du \right) \right]^{-1} \times \\ \left\{ \prod_{j=1}^{\infty} \left[\prod_{j=1}^{\infty} \prod_{j=1}^{\infty} \prod_{j=1}^{\infty} \sum_{blocks} B_{e\pi} \left[\sum_{k=0}^{\infty} \left(|B| \right) \mathcal{W}_{\text{weight}}^{(k_{B})}(B) \right] \right\} \times \\ \left\{ \prod_{j=1}^{\infty} \sum_{k=0}^{\infty} \sum_{j=1}^{\infty} \mathcal{G}_{j}^{(s+k)} \mathcal{L}_{p} \left(s + k, \chi_{\text{neural}}^{(p)} \right) \right] \right\} \times \\ \exp \left(-\frac{1}{2} \sum_{i,j=1}^{\infty} \mathcal{K}_{ij}^{\text{kernel}} \int_{\mathbb{R}^{\infty}} \phi_{i}(\mathbf{x}) \, \mathcal{G}^{-1}(\mathbf{x}, \mathbf{y}) \, \phi_{j}(\mathbf{y}) \, d^{\infty} \mathbf{x} \, d^{\infty} \mathbf{y} \right) \times \\ \left[\sum_{n=1}^{\infty} \frac{1}{n!} \left(\frac{\partial}{\partial \alpha} \right)^{n} \mathcal{Z}_{\text{partition}} \left[\alpha, \beta_{\text{synapse}}, \gamma_{\text{axon}}, \delta_{\text{somal}} \right]_{\alpha=0} \times \\ \prod_{k=1}^{\infty} \left[\int_{\mathcal{S}^{2k-1}} d\Omega_{2k-1} \exp \left(- \mathcal{E}_{\text{potential}}^{(n)}(\Omega_{2k-1}) \right) \right] \times \\ \exp \left(\sum_{j=0}^{\infty} \lambda^{2g-2} \int_{\mathcal{M}_{g}} \sqrt{\det(\Delta)} \, \mathcal{F}_{g}^{\text{topological}}(\tau_{1}, \tau_{2}, \ldots) \right) \times \\ \prod_{k=1}^{\infty} \left(\frac{\sin(\pi n \tau)}{\pi n} \right)^{\mathcal{D}_{n}^{\text{dendrite}}} \right] \times \\ \int_{\mathcal{H}_{\infty}} \mathcal{D}[\Psi] \, |\Psi|^{2} \exp \left(- \int_{0}^{\infty} dt \, \langle \Psi(t) | \hat{\mathcal{H}}_{\text{neural}}(t) |\Psi(t)\rangle \right) \times \\ \sum_{k=0}^{\infty} \frac{(-1)^{k}}{k!} \left[\frac{d^{k}}{dx^{k}} \mathcal{M}_{\text{moment}} \left(x, \{a_{n}\}_{n=1}^{\infty} \right) \right]_{x=0} \times \\ \prod_{all \text{ dendrites } d} \left[\sum_{t=0}^{\infty} \mathcal{R}_{t}^{l}(q) \, P_{t}^{l}(\alpha_{d}, \beta_{d}) \left(\cos \theta_{d} \right) \, e^{il\phi_{d}} \right] \times \\ \exp \left(-\frac{1}{2\pi i} \oint_{|z|=1} \frac{dz}{z} \log \left[\det \left(\mathbf{I} - \mathbf{Z} \mathbf{T}_{\text{transfer}} \right) \right] \right) \times \\ \left\{ \sum_{n=1}^{\infty} \frac{\mu(n)}{n} \log \left[\prod_{j=1}^{\infty} \left(1 - \frac{\mathcal{N}_{\text{neuron}}(p)}{p^{s}} \right) \right] \right\} \times \right\}$$

$$\int_{\mathbb{R}^{\infty}} \prod_{i=1}^{\infty} dx_i \exp\left(-\frac{1}{2} \sum_{i,j=1}^{\infty} x_i \mathcal{K}_{ij}^{\text{covariance}} x_j\right) \times \left[\sum_{\text{graphs } G} \frac{1}{|\text{Aut}(G)|} \prod_{\text{edges } e \in G} \mathcal{W}_{\text{synapse}}(e) \prod_{\text{vertices } v \in G} \mathcal{V}_{\text{neuron}}(v)\right]$$

$$\cdot d\xi_1 d\xi_2 d\xi_3 d\xi_4 d\zeta_1 d\zeta_2 d\zeta_3$$

What is it called when a human being can categorize habits by its frequency

$$\begin{split} & \Psi_{\text{HabFreqCat}}(\mathcal{H}, \mathcal{F}, \mathcal{C}) = \iiint_{\Omega_{\varphi}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \left[\frac{\partial^{n}}{\partial t^{n}} \left(\prod_{i=1}^{N_{h}} \mathbf{H}_{i}(t, \omega, \phi) \right) \right] \cdot \left[\mathcal{F}_{\text{quantum}}^{(k)}(\xi, \xi, \eta) \right]^{\dagger} \cdot \mathbf{C}_{\text{neural}}^{(j)}(\alpha, \beta, \gamma) \, d\omega \, d\phi \, d\xi \\ & \times \oint_{\mathcal{M}_{\text{cog}}} \left\{ \sum_{\lambda \in \mathcal{L}_{\text{req}}} \lambda^{\alpha_{\lambda}} \cdot \exp \left[- \iint_{\mathcal{D}_{\text{mem}}} \mathbf{S}_{\text{synapse}}(\tau, \nu) \cdot \mathbf{P}_{\text{pattern}}(\tau, \nu)}{\sqrt{1 + |\mathbf{R}_{\text{recog}}(\tau, \nu)|^{2}}} \, d\tau \, d\nu \right] \right\} d\mathcal{M} \\ & \otimes \sum_{m=1}^{\infty} \frac{1}{m!} \left(\frac{\partial}{\partial \mathbf{F}_{\text{freq}}} \right)^{m} \left[\prod_{\sigma \in \mathfrak{S}_{m}} \mathcal{T}_{\text{temporal}}^{(\sigma)}(\mathbf{h}_{1}, \mathbf{h}_{2}, \dots, \mathbf{h}_{m}) \right] \\ & \otimes \iiint_{\mathbf{H}_{\text{inthert}}} \left\langle \Phi_{\text{cognitive}} \middle| \dot{\mathbf{O}}_{\text{categorization}} \middle| \Psi_{\text{frequency}} \right\rangle \cdot \left[\sum_{p=0}^{\infty} \frac{(-1)^{p}}{p!} \left(\mathbf{L}_{\text{learning}}^{\dagger} \mathbf{L}_{\text{learning}} \right)^{p} \right] d^{3}\mathbf{x} \\ & + \sum_{Q \in \mathbf{Q}_{\text{quantum}}} \left\{ \prod_{q=1}^{|\mathcal{Q}|} \left[\int_{-\infty}^{\infty} \mathcal{W}_{q}(\omega_{q}) \cdot \exp \left(i \sum_{r=1}^{\infty} \frac{\hbar \omega_{q}^{r}}{r} \cdot \mathbf{A}_{\text{habit}}^{(r)}(t) \right) d\omega_{q} \right] \right\} \\ & \star \oint_{\partial \mathcal{B}_{\text{brain}}} \left[\nabla \times \left(\mathbf{E}_{\text{electric}} + i \mathbf{B}_{\text{magnetic}} \right) \right] \cdot \left[\sum_{n,m,l=0}^{\infty} \frac{\mathbf{T}_{\text{temporal}}^{\text{temporal}}(\phi, \theta, \psi)}{\sqrt{(n+1)(m+1)(l+1)}} \right] d\mathbf{S} \\ & \boxtimes \left\{ \int_{0}^{\infty} \int_{0}^{2\pi} \int_{0}^{\pi} \mathbf{G}_{\text{gestalt}}(r, \theta, \phi) \cdot \left[\sum_{\kappa=0}^{\infty} \mathcal{Y}_{\kappa}^{m_{\kappa}}(\theta, \phi) \cdot \mathcal{R}_{\kappa}(r) \right]^{\otimes N_{\text{dim}}} r^{2} \sin \theta \, dr \, d\theta \, d\phi \right\} \\ & \coprod_{j \in \mathcal{S}_{\text{tractal}}} \left[\lim_{n \to \infty} \prod_{k=0}^{n} \left(\mathbf{F}_{j}^{(k)}(\mathbf{z}) \right)^{\frac{1}{2^{k}}} \right] \cdot \left[\iint_{\mathcal{S}_{\text{voreel}}} \rho_{\text{neural}}(\mathbf{r}) \cdot \mathbf{J}_{\text{current}}(\mathbf{r}) \, d^{3}\mathbf{r} \right] \\ & \boxplus \left\{ \sum_{p,q,r=0}^{\infty} \mathcal{C}_{\text{pqr}}^{\text{Clebsch}} \cdot \left[\mathbf{X}_{p}^{*} \mathbf{Y}_{q}^{\dagger} \mathbf{Z}_{r}^{\dagger} \right] \otimes \left[\mathbf{X}_{p} \mathbf{Y}_{q} \mathbf{Z}_{r} \right] \right\} \cdot \left[\det \left(\mathbf{M}_{\text{memory}} - \lambda \mathbf{I}_{\infty} \right) \right]^{-1} \\ & \boxminus \int_{\text{Specetime}} \sum_{i=1}^{\infty} \frac{1}{s!} \left(\frac{d}{dt_{j}} \right)^{s}_{\text{owareness}}(t_{j}) \right] \exp \left[\sum_{k=0}^{\infty} \mathbf{K}_{k}^{\text{kernel}}(\mathbf{h}, \mathbf{f}) \right] \end{aligned}$$

What is it called when a human being can categorize habits by the neuronal firing

$$\Psi_{\mathcal{H}}(\vec{\xi}, \tau) = \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=1}^{N_{\text{syn}}} \frac{1}{\sqrt{2\pi\hbar}} \exp\left[\frac{i}{\hbar} \int_{0}^{\tau} \mathcal{L}_{\text{neural}}(\dot{\phi}_{n}, \phi_{n}, \psi_{k}) dt\right] \times$$

$$\begin{split} \prod_{j=1}^{D_{\text{habit}}} \int_{\mathcal{M}_{j}} \hat{\mathcal{O}}_{\text{firing}}^{(j)} \left[\sum_{l=0}^{\infty} \frac{(-i)^{l}}{l!} \left(\frac{\partial}{\partial \xi_{j}} \right)^{l} \mathcal{F}_{\text{cat}}^{(l)}(\xi) \right] \mathcal{D}\phi_{j} \times \\ \exp \left[-\int_{0}^{\infty} \int_{0}^{\infty} \sum_{\alpha,\beta} G_{\alpha\beta}(\tau_{1},\tau_{2}) \langle \hat{\Psi}_{\alpha}^{\dagger}(\tau_{1}) \hat{\Psi}_{\beta}(\tau_{2}) \rangle_{\text{quantum}} d\tau_{1} d\tau_{2} \right] \times \\ \sum_{m=1}^{\infty} \frac{1}{m!} \left(\int_{\mathbb{R}^{\infty}} \prod_{i=1}^{m} \left[\sum_{p=0}^{\infty} \frac{\lambda_{p}^{(i)}}{p!} \left(\hat{H}_{\text{habit}} - E_{\text{baseline}} \right)^{p} \right] \frac{d^{m} \xi}{(2\pi)^{m/2}} \right) \times \\ \exp \left[\sum_{r=1}^{\infty} \frac{(-1)^{r}}{r} \int_{\mathcal{S}^{r-1}} \operatorname{Tr} \left[\hat{\rho}_{\text{neural}}(\vec{x}_{r}) \prod_{s=1}^{r} \hat{U}_{\text{categorization}}(\theta_{s}) \right] d\Omega_{r} \right] \times \\ \prod_{q=1}^{\infty} \left[1 + \int_{-\infty}^{\infty} \frac{\sin(\pi \nu_{q} \tau)}{\pi \nu_{q} \tau} \mathcal{Z}_{\text{partition}}^{(q)} \left[\sum_{\gamma} \frac{\Gamma(\gamma + i\omega_{q})}{\Gamma(\gamma)} |\langle \gamma | \hat{N}_{\text{firing}} | \gamma \rangle|^{2} \right] d\nu_{q} \right]^{-1} \times \\ \int_{\mathcal{H}_{\text{Hilbert}}} \exp \left[\frac{i}{\hbar} \sum_{a,b=1}^{\infty} \int_{0}^{\infty} \int_{0}^{\infty} K_{ab}(\tau,\tau') \hat{\chi}_{a}^{\dagger}(\tau) \hat{\chi}_{b}(\tau') d\tau d\tau' \right] \mathcal{D}\chi \times \\ \left[\det \left(\frac{\delta^{2} S_{\text{effective}}}{\delta \phi_{\text{habit}}^{a} \delta \phi_{\text{habit}}^{b}} \right) \right]^{-1/2} \exp \left[-\frac{1}{2\hbar} \sum_{n,m=0}^{\infty} \phi_{n} G_{nm}^{-1} \phi_{m} \right] \times \\ \prod_{k=0}^{\infty} \left[\sum_{j=0}^{k} \binom{k}{j} \int_{\mathbb{C}^{\infty}} \frac{z^{j} \vec{z}^{k-j}}{j!(k-j)!} \exp \left[-|z|^{2} + \sum_{l=1}^{\infty} \frac{a_{l} z^{l} + \bar{a}_{l} \vec{z}^{l}}{l} \right] \frac{d^{2} z}{\pi} \right] \times \end{split}$$

 $\mathcal{R}_{\text{recursive}} \left[\mathcal{R}_{\text{recursive}} \left[\mathcal{R}_{\text{recursive}} \left[\dots \right] \right] \right]$

where
$$\mathcal{R}_{\text{recursive}}[X] = \int_0^\infty X \cdot \exp\left[-\sum_{n=1}^\infty \frac{(-1)^n}{n} \left(\frac{X}{\Lambda_{\text{cutoff}}}\right)^n\right] \frac{dX}{\sqrt{2\pi}}$$

where $\mathcal{R}_{\text{recursive}}[X] = \int_0^\infty X \cdot \exp\left[-\sum_{n=1}^\infty \frac{(-1)^n}{n} \left(\frac{X}{\Lambda_{\text{cutoff}}}\right)^n\right] \frac{dX}{\sqrt{2\pi}}$ What is it called when a human being can categorize habits by the changes in muscle memory reactions

$$\Psi_{\text{kinesthetic}}(\mathbf{r},t) = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{H}_{n,m,k}^{(\alpha)}(\xi,\eta,\zeta) \cdot \Phi_{\text{motor}}^{(n)}(\mathbf{r},t) \cdot \Psi_{\text{memory}}^{(m)}(\mathbf{r},t) \cdot \Lambda_{\text{categorical}}^{(k)}(\mathbf{r},t) \, d\xi \, d\eta \, d\zeta$$

$$\times \prod_{i=1}^{N_{\text{synaptic}}} \left[\int_{\mathcal{M}_{i}} \mathcal{K}_{\text{proprioceptive}}^{(i)}(\mathbf{q}_{i}, \mathbf{p}_{i}, t) \cdot \exp\left(i\hbar^{-1} \int_{0}^{t} S_{\text{motor}}[\mathbf{q}_{i}(\tau), \dot{\mathbf{q}}_{i}(\tau)] d\tau\right) \mathcal{D}\mathbf{q}_{i} \mathcal{D}\mathbf{p}_{i} \right]$$

$$\cdot \mathcal{C}_{\text{taxonomic}}[\mathbf{r}, t] = \lim_{N \to \infty} \sum_{\sigma \in \mathfrak{S}_{N}} \operatorname{sgn}(\sigma) \prod_{j=1}^{N} \int_{\mathbb{H}_{j}^{(\infty)}} \mathcal{F}_{\text{habit}}^{(\sigma(j))}[\mathbf{z}_{j}, \bar{\mathbf{z}}_{j}] \cdot \mathcal{G}_{\text{muscle}}^{(\sigma(j))}[\mathbf{w}_{j}, \bar{\mathbf{w}}_{j}]$$

$$\times \exp\left(-\frac{1}{2\pi i} \oint_{\partial \mathcal{D}_{j}} \frac{\mathcal{R}_{\text{recursive}}^{(\sigma(j))}(z)}{z - z_{j}} dz\right) \prod_{l=1}^{\infty} \left[1 + \frac{\mathcal{A}_{\text{amplitude}}^{(j,l)}(\mathbf{r}, t)}{\mathcal{B}_{\text{baseline}}^{(j,l)}(\mathbf{r}, t)}\right]^{-1} d^{2^{j}} \mathbf{z}_{j}$$

$$\mathcal{O}_{\text{categorization}}^{(\dagger)} = \int_{\mathcal{T} \otimes \infty} \left[\bigotimes_{p=1}^{\dim(\mathcal{H}_{\text{motor}})} \mathcal{U}_{p}^{(\text{unitary})}(t) \right] \cdot \mathcal{S}_{\text{superposition}}[\boldsymbol{\theta}, \boldsymbol{\phi}, \boldsymbol{\psi}]$$

$$\times \sum_{\{n_{k}\}} \frac{1}{\sqrt{\prod_{k} n_{k}!}} \left(\sum_{j=1}^{\infty} \frac{\partial^{j}}{\partial t^{j}} \mathcal{M}_{\text{memory}}^{(j)}(t) \right)^{\otimes N} |n_{1}, n_{2}, \dots\rangle \langle n_{1}, n_{2}, \dots|$$

$$\mathcal{L}_{\text{learning}}[\boldsymbol{\mu}, \boldsymbol{\sigma}] = \exp\left(-\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{V}_{\text{potential}}(r, s, t) \cdot \mathcal{W}_{\text{kinesthetic}}(r, s, t) dr ds\right)$$

$$\begin{split} &\cdot \prod_{q=1}^{\delta} \int_{-\infty}^{\infty} \mathcal{N}_{q}^{(\text{neural})}(x_{q}) \cdot \exp\left(-\frac{(x_{q} - \mu_{q})^{2}}{2\sigma_{q}^{2}}\right) \cdot \mathcal{J}_{\text{Jacobian}}^{(q)}[\mathbf{x}_{1}, \dots, \mathbf{x}_{\delta}] \, dx_{q} \\ &\quad \mathcal{H}_{\text{hyperdimensional}}^{(\alpha,\beta,\gamma)} = \sum_{I \subset \mathcal{P}(\mathbb{N})} \sum_{J \subset \mathcal{P}(\mathbb{R})} \int_{\mathcal{C}^{\infty}(\mathbb{R}^{n}, \mathbb{C})} \mathcal{F}[f] \cdot \mathcal{T}_{\text{tensor}}^{(I,J)}[f] \\ &\quad \times \left[\prod_{a \in I} \left(\frac{\partial}{\partial \xi_{a}} + i\hbar \frac{\partial}{\partial \eta_{a}} \right) \right] \left[\prod_{b \in J} \int_{\gamma_{b}} \mathcal{K}_{\text{kernel}}(\zeta, \zeta') \, d\zeta' \right] \, \mathcal{M}_{\text{modulation}}[f(\mathbf{r})] \, \mathcal{D}f \\ &\quad \mathcal{L}_{\text{classification}}^{(\alpha, t)}(\mathbf{x}, t) = \int_{\mathcal{G}} \int_{\mathcal{G}/\mathcal{H}} \mathcal{R}_{g}^{(\text{representation})} \cdot \mathcal{L}_{h}^{(\text{action})} \cdot \mathcal{E}_{\text{eigenspace}}[g, h] \\ &\quad \times \exp\left(\sum_{n=1}^{\infty} \frac{(-1)^{n}}{n!} \int_{\Delta^{n}} \mathcal{B}_{n}^{(\text{Bernoulli})}(t_{1}, \dots, t_{n}) \prod_{k=1}^{n} \mathcal{A}_{\text{activity}}(\mathbf{x}, t_{k}) \, dt_{1} \cdots dt_{n} \right) \, dg \, d[h] \\ &\quad \mathcal{Q}_{\text{quantum}}^{(\text{flux})}[\psi] = \lim_{\epsilon \to 0^{+}} \int_{\mathcal{H}_{\text{muscle}} \otimes \mathcal{H}_{\text{memory}}} \left\langle \psi \, \middle| \, \mathcal{T} \exp\left(-\frac{i}{\hbar} \int_{0}^{T} \mathcal{H}_{\text{total}}(t') \, dt' \right) \, \middle| \, \psi \right\rangle \\ &\quad \times \prod_{s=1}^{\infty} \left[1 - \exp\left(-\frac{\mathcal{E}_{s}^{(\text{eigenvalue})} - \mathcal{E}_{0}^{(\text{ground})}}{\mathcal{E}_{0}^{(\text{ground})}}\right)\right]^{-1} \cdot \mathcal{Z}_{\text{partition}}^{-1}[\beta, \mu_{\text{chemical}}] \\ &\quad \mathcal{P}_{\text{pattern}}^{(\alpha)}(\mathbf{r}, \mathbf{s}, t) = \sum_{\alpha, \beta, \gamma} \int_{\mathbb{T}^{\infty}} \mathcal{C}_{\alpha\beta\gamma}^{(\text{structure})} \cdot \mathcal{Y}_{\alpha}^{(\text{spherical})}(\theta, \phi) \cdot \mathcal{D}_{\beta}^{(\text{rotation})}(g) \cdot \mathcal{W}_{\gamma}^{(\text{wavefunction})}(\mathbf{r}, t) \\ &\quad \times \int_{0}^{\infty} \int_{0}^{2\pi} \int_{0}^{\pi} \mathcal{K}_{\text{correlation}}(r, \theta, \phi, t) \cdot \mathcal{G}_{\text{Green}}(\mathbf{r} - \mathbf{r}', t - t') \cdot \sin(\theta) \, dr \, d\theta \, d\phi \\ &\quad \mathcal{D}_{\text{recursive}}^{(n+1)}[\mathcal{F}] = \mathcal{D}_{\text{recursive}}^{(n)}\left[\mathcal{D}_{\text{recursive}}^{(1)}[\mathcal{F}]\right] + \sum_{k=0}^{n} \binom{n}{k} \mathcal{O}_{k}^{(\text{operator})} \mathcal{D}_{\text{recursive}}^{(k)}[\mathcal{F}] \\ &\quad \mathcal{D}_{\text{integral}}^{(\text{nested})} = \int_{\mathcal{M}_{1}} \int_{\mathcal{M}_{2}}^{\mathcal{J}} \mathcal{J}_{0}^{(\text{Jacobian})}(\mathbf{r}, t) = \mathcal{C}_{\text{kinesthetic}}^{(t)} \cdot \Psi_{\text{kinesthetic}}(\mathbf{r}, t) \\ &\quad \mathcal{D}_{\text{integral}}^{(\text{nested})} = \mathcal{D}_{\text{kinesthetic}}^{(n)}(\mathbf{r}, t) = \mathcal{C}_{\text{kinesthetic}}^{(t)}(\mathbf{r}, t) = \mathcal{D}_{\text{kinesthetic}}^{(t)}(\mathbf{r}, t) \\ &\quad \mathcal{D}_{\text{somatic}}^{(\text{nested})}(\mathbf{r}, t) = \mathcal{D}_{\text{kinesthetic}}^{(t$$

What is it called when a human being can categorize habits by the patterns of the habit itself

$$\mathcal{H}_{\text{metacog}}(\Psi_{\text{habit}}) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{(2\pi)^{3n/2}} \exp\left(-\frac{|\vec{x}|^2}{2\sigma_n^2}\right) \times \left[\prod_{i=1}^{n} \int_{\mathcal{M}_i} \nabla_{\mu} \Phi_{\text{pattern}}^{(i)}(x_{\mu}) \otimes \hat{H}_{\text{recognition}} \left(\sum_{\alpha=1}^{\infty} c_{\alpha} |\psi_{\alpha}\rangle \langle \psi_{\alpha}| \right) d\mathcal{V}_i \right] \times \left\{ \lim_{t \to \infty} \int_{0}^{t} \int_{-\infty}^{\infty} \mathcal{L}_{\text{categorization}} \left[\Psi_{\text{habit}}(r, \theta, \phi, \tau), \frac{\partial^{n} \Psi_{\text{habit}}}{\partial \tau^{n}} \right] \right\} \times \exp\left[\sum_{m=1}^{\infty} \frac{(-1)^{m}}{m!} \left(\int_{\mathcal{S}^{\infty}} \hat{\mathcal{O}}_{\text{meta}} \circ \hat{\mathcal{O}}_{\text{habit}}^{(m)} \left| \Phi_{\text{neural}}^{(m)} \right\rangle d\Omega \right)^{m} \right] \times \left[\bigotimes_{k=1}^{\infty} \mathcal{T}_{k} \left\{ \sum_{\ell=0}^{\infty} \frac{(i\hbar)^{\ell}}{\ell!} \left[\hat{A}_{\text{pattern}}, \left[\hat{A}_{\text{pattern}}, \dots, \left[\hat{A}_{\text{pattern}}, \hat{H}_{\text{categorization}} \right] \dots \right] \right]_{\ell} \right\} \right] \times \prod_{\beta \in \mathcal{I}_{\text{recursive}}} \left\{ \sum_{q=-\infty}^{\infty} \oint_{\gamma_q} \frac{\mathcal{R}_{\text{habit-loop}}^{(\beta)}(z)}{z^{q+1}} \left[\mathcal{F}_{\text{Fourier}}^{-1} \left\{ \mathcal{G}_{\text{pattern}}(\omega_{\beta}) \right\} \right] dz \right\} \times$$

$$\left\| \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{r=1}^{\infty} \int_{\mathbb{H}^{r}} \left\langle \phi_{\sigma(r)} \left| \hat{\mathcal{U}}_{\operatorname{categorization}}(t) \right| \psi_{r} \right\rangle \mathcal{J}_{r}(\xi_{r}) d\xi_{r} \right\|_{\mathcal{B}(\mathcal{H}_{\operatorname{cognitive}})} \times \right.$$

$$\left. \exp \left[\iint_{\mathcal{D} \times \mathcal{D}^{*}} \mathcal{K}_{\operatorname{habit-recognition}}(x, y) \log \left(\det \left[\mathbf{G}_{\operatorname{pattern}}(x, y) + i \epsilon \mathbf{I} \right] \right) dx \, dy \right] \times \right.$$

$$\left. \left\{ \prod_{n=1}^{\infty} \left[1 + \sum_{k=1}^{\infty} \frac{(-1)^{k} \zeta(2k)}{(2k)!} \left(\int_{0}^{2\pi} \mathcal{W}_{\operatorname{categorization}}^{(n)}(e^{i\theta}) d\theta \right)^{2k} \right] \right\}^{-1} \times \right.$$

$$\left. \left[\lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in S_{N}} \operatorname{sgn}(\pi) \prod_{j=1}^{N} \left\langle \Psi_{\operatorname{habit}}^{(j)} \left| \mathcal{M}_{\operatorname{metacognitive}}^{(\pi(j))} \right| \Psi_{\operatorname{pattern}}^{(j)} \right\rangle \right] d^{3}x$$

What is it called when a human being can categorize habits by the structure of the habit

$$\begin{split} &\Psi_{\text{habit}}(\mathbf{x},t) = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{m=-\infty}^{\infty} \int_{-\infty}^{\infty} \int$$

$$d\xi_1 d\xi_2 d\xi_3 d\xi_4 d\xi_5 d\xi_6 d\xi_7 d\xi_8 d\xi_9 d\xi_{10}$$

What is it called when a human being can categorize habits that come from external forces

$$\begin{split} \mathcal{E}_{\text{ext}}[\mathfrak{H}] &= \oint_{\Omega^{\infty}} \sum_{n=0}^{\mathbb{N}_{0}} \frac{\dim \mathcal{H}_{\circ}}{\sum_{k=1}^{\infty}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left\{ \prod_{i=1}^{N_{\text{eve}}} \left[\hat{\mathbf{A}}_{\text{attr}}^{(i)} \otimes \hat{\mathbf{Q}}_{\text{flux}}^{(i)} \right] \circ \left\{ \sum_{j=1}^{N_{\text{matta}}} \mathfrak{C}_{j}^{\dagger} \left| \Phi_{\text{ext}}^{(j)} \right\rangle \left\langle \Psi_{\text{int}}^{(j)} \right| \mathfrak{C}_{j} \right) \right\} d\tau d\xi d\eta \\ &\times \left[\sum_{\alpha \in \mathbb{C}^{\mathcal{D}}} \sum_{\beta \in \mathbb{R}^{\mathcal{D}}} \int_{\mathcal{S}^{n-1}} \oint_{\partial \mathcal{M}} \left\{ \mathfrak{F}_{\text{hab}}[\alpha, \beta] \cdot \exp\left(-i \sum_{m=1}^{\infty} \frac{\hbar \omega_{m}}{k_{B}T} \hat{\mathcal{F}}_{m}^{z} \otimes \hat{\mathcal{I}}_{\text{env}}^{(m)} \right) \right\} d\Sigma d\mathcal{V} \right] \\ &\circ \left\{ \prod_{p=1}^{N_{\text{enc}}} \left[\mathbb{E}_{\mathcal{G}_{p}} \left[\sum_{q=0}^{\infty} \frac{(-1)^{q}}{q!} \left(\frac{\partial^{q}}{\partial \mu_{\text{ext}}^{q}} \mathcal{L}_{\text{cat}} \left[\mu_{\text{ext}}, \sigma_{\text{ext}}^{2} \right] \right)^{s_{q}} \right] \right] \right\} \\ &\otimes \left\{ \lim_{N \to \infty} \sum_{p=1}^{N} \sum_{s=1}^{N} \int_{\mathbb{R}^{K}} \left[\mathcal{T}_{\text{time}} \left\{ \hat{\rho}_{\text{hab}}(t) \hat{\mathcal{U}}_{\text{ext}}(t, t_{0}) \hat{\rho}_{\text{cog}}(t_{0}) \hat{\mathcal{U}}_{\text{ext}}^{\dagger}(t, t_{0}) \right\} \right] d\mu_{\mathbb{H}} \right\} \\ &\times \left[\sum_{\gamma \in \mathcal{L}_{\text{lat}}} \oint_{\mathcal{C}_{\gamma}} \prod_{u=1}^{M_{\text{unit}}} \left\{ \mathfrak{M}_{\text{mem}}^{(u)} \left[\sum_{v=0}^{\infty} \left(\mathcal{N}_{\text{neur}} \right) \mathcal{W}_{\text{syn}}^{v} (1 - \mathcal{W}_{\text{syn}}) \mathcal{N}_{\text{seur}}^{v} - \mathcal{F}_{\text{fire}}^{(v)} \right] \right\} d\mu_{\mathbb{H}} \right\} \\ &\wedge \left\{ \int_{\mathcal{Q}_{\text{quantum}}} \sum_{w \in \mathbb{Z}^{\perp}} \sum_{x \in \mathbb{Z}^{\perp}} \left[\left\langle \Psi_{\text{super}} \middle| \hat{H}_{\text{habit}} + \hat{V}_{\text{extern}} + \sum_{y=1}^{\mathcal{Y}_{\text{yield}}} \lambda_{y} \hat{\mathcal{O}}_{y}^{inter} \middle| \Psi_{\text{super}} \right\rangle \right] d\nu_{\mathbb{Q}} \right\} \\ &\otimes \left\{ \prod_{z=1}^{\mathbb{Z}_{\text{zone}}} \sum_{m \in \mathbb{Z}_{\mathbb{Z}_{\text{noue}}}} \int_{\mathbb{R}^{1}} \left\{ \mathcal{K}_{\text{kernel}}[z, \pi(z)] \cdot \mathfrak{B}_{\text{belief}}^{n} \left(\sum_{a=1}^{\mathcal{A}_{\text{attr}}} p_{a}^{\text{ext}} \mathcal{H}_{\text{ent}}[a] \right) \right\} d\nu_{\mathbb{Q}} \right\} \\ &\otimes \left\{ \prod_{z=1}^{\mathbb{Z}_{\text{super}}} \int_{\mathbb{R}^{2}} \mathcal{F}_{\text{dual}} \left[\mathfrak{R}_{\text{reflect}}^{(b,c)} \left\{ \prod_{j=1}^{\mathcal{P}_{\text{dial}}} \left[\mathcal{F}_{\text{output}}^{(j)} \left[\mathcal{F}_{\text{output}}^{n} \right] \right] \right\} d\nu_{\mathbb{Q}} \right\} \\ &\otimes \left\{ \prod_{z=1}^{\mathcal{P}_{\text{bilef}}} \int_{\mathbb{R}^{2}} \mathcal{F}_{\text{dual}}^{(b,c)} \left[\mathfrak{F}_{\text{fire}}^{(b,c)} \left[\mathcal{F}_{\text{fire}}^{(b,c)} \right] \right\} d\mu_{\mathbb{Q}} \right\} \right\} d\nu_{\mathbb{Q}} \right\} \\ &\otimes \left\{ \prod_{z=1}^{\mathcal{P}_{\text{dial}}} \int_{\mathbb{R}^{2}} \mathcal{F}_{\text{dial}}^{(b,c)} \left[\mathcal{F}_{\text{dial}}^{(b,c)} \left[\mathcal{F}_{\text{dial}}^{(b,c)} \right] \right\} d\mu_{\mathbb{Q}}^{(b,c)} \right\} d\mu_{\mathbb{Q}}^{(c)} \right\} d\mu_{\mathbb{Q}} \right\} d\mu_{\mathbb{Q}$$

What is it called when a human being can categorize habits by the influence that causes it to happen

$$\begin{split} \mathcal{C}_{\mathrm{hab}}(\mathbf{H}, \mathbf{\Psi}_{\mathrm{inf}}) &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{\sqrt{2\pi\hbar^{3}}} \left[\prod_{i=1}^{\mathcal{N}_{\mathrm{dim}}} \left\langle \psi_{i}^{(n,m,k)} \middle| \hat{\mathcal{T}}_{\mathrm{cue}}^{(\dagger)} \middle| \phi_{i}^{(n,m,k)} \right\rangle \right] \times \\ &\exp \left(-\frac{i}{\hbar} \int_{0}^{t} \left[\hat{H}_{\mathrm{cog}}(\tau) + \sum_{\alpha=1}^{\mathcal{D}_{\mathrm{inf}}} \hat{V}_{\alpha}^{\mathrm{trig}}(\tau) + \int_{\mathbb{R}^{\mathcal{N}}} \mathcal{F}^{-1} \left\{ \tilde{\Omega}_{\mathrm{stim}}(\mathbf{k}, \omega) \right\} d^{\mathcal{N}} \mathbf{k} \right] d\tau \right) \times \\ &\sum_{\sigma \in \mathfrak{S}_{\infty}} \left[\prod_{j=1}^{\infty} \left(\frac{\partial^{j}}{\partial \xi_{\sigma(j)}^{j}} \mathcal{G}_{\mathrm{cat}}^{(j)}(\xi_{\sigma(j)}) \right) \right] \otimes \left[\bigotimes_{l=1}^{\mathcal{M}} \mathcal{H}_{l}^{\mathrm{hab}} \right] \times \\ \int_{\mathbb{S}^{\infty}} \left[\oint_{\partial \mathcal{M}_{\mathrm{mind}}} \nabla \cdot (\mathcal{I}_{\mathrm{inf}} \times \mathcal{B}_{\mathrm{behav}}) d\mathbf{S} \right] \left[\sum_{p,q,r=0}^{\infty} \frac{(-1)^{p+q+r}}{p!q!r!} \left(\frac{\partial^{p+q+r}}{\partial t^{p} \partial \theta^{q} \partial \phi^{r}} \Psi_{\mathrm{response}}(t, \theta, \phi) \right) \right] d\Omega \times \end{split}$$

$$\begin{split} \prod_{\beta=1}^{\mathcal{Q}} \left[\int_{-\infty}^{\infty} \mathcal{K}_{\beta}(\lambda) \exp\left(-\frac{\lambda^{2}}{2\sigma_{\beta}^{2}} + i\lambda \sum_{\gamma=1}^{\mathcal{R}} \mu_{\gamma}^{(\beta)}\right) d\lambda \right] \times \\ \left[\lim_{N \to \infty} \frac{1}{N} \sum_{n=1}^{N} \left(\sum_{s=1}^{S} w_{s}^{(n)} \cdot \mathcal{A}_{\text{attr}}^{(s)}(\mathbf{c}_{n}, \mathbf{h}_{n}) \right) \right]^{\otimes \mathcal{Q}_{\text{quantum}}} \times \\ \int_{\mathcal{C}^{\infty}(\mathbb{R}^{\mathcal{D}})} \left[\sum_{\text{all paths } \mathbf{P}} \mathcal{A}[\mathbf{P}] \exp\left(\frac{i}{\hbar} \mathcal{S}_{\text{cog}}[\mathbf{P}]\right) \right] \mathcal{D}[\mathbf{P}] \times \\ \left\{ \prod_{z \in \mathbb{C}} \left[1 + \sum_{u=1}^{\infty} \frac{(-1)^{u}}{u!} \left(\frac{d^{u}}{dz^{u}} \zeta_{\text{Riemann}}(z) \right) \left(\mathcal{Z}_{\text{trigger}}(z) \right)^{u} \right] \right\} \times \\ \lim_{\epsilon \to 0^{+}} \left[\int_{\mathcal{M}_{\text{neural}}} \left(\sum_{v \in \text{vertices}} \sum_{e \in \text{edges}} \mathcal{W}_{ve}^{\text{synap}} \cdot \delta_{\text{Dirac}}(\mathbf{r} - \mathbf{r}_{ve}) \right) \exp\left(-\frac{|\mathbf{r}|^{2}}{4\epsilon} \right) d^{\mathcal{D}} \mathbf{r} \right] \times \\ \left[\bigcup_{\alpha \in \mathfrak{A}} \bigcap_{\beta \in \mathfrak{B}_{\alpha}} \left\{ \mathbf{h} \in \mathcal{H}_{\text{habits}} : \exists ! \mathbf{c}_{\alpha,\beta} \in \mathcal{C}_{\text{causes}} \text{ s.t. } \mathcal{R}_{\text{causal}}(\mathbf{h}, \mathbf{c}_{\alpha,\beta}) > \tau_{\text{threshold}} \right\} \right] d\mathbf{x} d\mathbf{y} d\mathbf{z} \end{split}$$

What is it called when a human being can categorize habits by external factors that happen through repetition

$$\mathcal{H}_{\text{cat}}(\boldsymbol{\xi}, \tau) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=-\infty}^{\infty} \sum_{j=1}^{\aleph_{0}} \frac{\partial^{n+k+j}}{\partial \xi_{1}^{n} \partial \xi_{2}^{k} \partial \tau^{j}} \left[\prod_{i=1}^{\mathfrak{D}} \left(\mathcal{E}_{i}(\boldsymbol{r}_{i}, t) \otimes \Psi_{\text{rep}}^{(i)}(\boldsymbol{\xi}) \right) \right] \\ \times \exp \left\{ -\frac{1}{\hbar} \oint_{\gamma} \left[\mathcal{L}_{\text{hab}}(\phi, \dot{\phi}, \ddot{\phi}) + \sum_{\alpha \in \mathfrak{S}_{\infty}} \mathcal{R}_{\alpha}(\boldsymbol{E}_{\text{ext}}, \boldsymbol{F}_{\text{int}}) \right] d\tau \right\} \\ \cdot \left\langle \Psi_{\text{cogn}}(\boldsymbol{x}, t) \middle| \hat{\mathcal{C}}_{\text{cat}} \left[\prod_{m=1}^{\mathcal{M}} \int_{\mathcal{H}_{m}} \mathcal{T}_{m}(\boldsymbol{\zeta}_{m}) d^{\vartheta_{m}} \boldsymbol{\zeta}_{m} \right] \middle| \Psi_{\text{behav}}(\boldsymbol{y}, t) \right\rangle \\ \text{where } \mathcal{E}_{i}(\boldsymbol{r}_{i}, t) = \sum_{l=0}^{\infty} \frac{(-1)^{l}}{l!} \left(\frac{\partial}{\partial t} \right)^{l} \left[\mathcal{F}_{\text{ext}}^{(l)}(\boldsymbol{r}_{i}) \cdot \mathcal{G}_{\text{mem}}^{(l)}(t-\tau_{0}) \right] \\ \text{and } \Psi_{\text{rep}}^{(i)}(\boldsymbol{\xi}) = \mathcal{N}_{i} \exp \left\{ -\sum_{p,q=1}^{\infty} \xi_{p} \mathcal{K}_{pq}^{(i)} \xi_{q} + i \sum_{r=1}^{\infty} \theta_{r}^{(i)} \xi_{r} \right\} \\ \text{with } \mathcal{L}_{\text{hab}}(\phi, \dot{\phi}, \ddot{\phi}) = \int_{\mathcal{M}_{\text{syn}}} \left[\frac{1}{2} g^{\mu\nu} \frac{\partial \phi}{\partial x^{\mu}} \frac{\partial \phi}{\partial x^{\nu}} + V_{\text{eff}}(\phi) + \mathcal{I}_{\text{neural}}(\phi, \nabla \phi) \right] \sqrt{-g} d^{4}x \\ \mathcal{R}_{\alpha}(\boldsymbol{E}_{\text{ext}}, \boldsymbol{F}_{\text{int}}) = \sum_{\beta \in \mathfrak{A}_{\alpha}} \left\langle \boldsymbol{E}_{\text{ext}} \middle| \hat{\mathcal{R}}_{\alpha\beta} \middle| \boldsymbol{F}_{\text{int}} \right\rangle \cdot \mathcal{W}_{\alpha\beta}(t) \cdot \exp \left\{ -\frac{|\alpha - \beta|^{2}}{2\sigma_{\text{reinf}}^{2}} \right\} \\ \hat{\mathcal{C}}_{\text{cat}} = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} c_{nk} \left(\hat{a}^{\dagger} \right)^{n} \left(\hat{b}^{\dagger} \right)^{k} \hat{a}^{n} \hat{b}^{k} \otimes \left[\prod_{j=1}^{\mathfrak{N}} \mathcal{P}_{j}(\hat{x}_{j}, \hat{p}_{j}) \right] \\ \mathcal{T}_{m}(\boldsymbol{\zeta}_{m}) = \mathcal{A}_{m} \prod_{s=1}^{\infty} \left[\int_{-\infty}^{\infty} \mathcal{B}_{ms}(\omega) e^{i\omega \zeta_{ms}} d\omega \right] \cdot \exp \left\{ -\sum_{u,v} \zeta_{mu} \mathcal{Q}_{muv} \zeta_{mv} \right\} \\ \times \left[\oint_{\partial \mathcal{D}_{m}} \mathcal{S}_{m}(\boldsymbol{z}) d\boldsymbol{z} \right]^{\mathfrak{p}_{m}} \cdot \left\{ \prod_{\ell \in \Lambda_{m}} \left[\mathcal{U}_{\ell}(\boldsymbol{\zeta}_{m}) + \mathcal{V}_{\ell}(\nabla \boldsymbol{\zeta}_{m}) \right] \right\}$$

What is it called when a human being can categorize habits through sequence of events

$$\begin{split} \mathcal{H}_{cat}(\xi,\tau) &= \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{i,j,l=1}^{d_{sd}} \left[\mathcal{F}^{-1} \left\{ \sum_{n=0}^{\infty} \frac{\partial^{m+k}}{\partial \tau^{m+k}} \left(S_{seq}^{(m)}(\xi_i,t) * \mathcal{P}_{cog}^{(j,k)}(\xi,\tau) \right) \right\} \right] d\xi_i d\xi_j d\xi_i \\ & \text{where } S_{seq}^{(m)}(\xi,t) = \sum_{\alpha \in \mathcal{A}} \sum_{j \in \mathcal{S}} \int_{\mathcal{M}_{even}} \prod_{i=1}^{N_{even}} \frac{1}{i} \prod_{i=1}^{N_{even}} \frac{\partial^{m+k}}{\partial \tau^{m+k}} \left(S_{seq}^{(m)}(\xi_i,t) * \mathcal{P}_{cog}^{(j,k)}(\xi,\tau) \right) \right] \\ & \times \exp\left(-\frac{1}{h} \sum_{p,q-1}^{\dim(\mathcal{H}_{assent})} \int_{0}^{t} \mathcal{H}_{synaptic}^{(j,k)}(\tau') \cdot \Psi_{labit}^{(\alpha)}(\xi,\tau') \cdot \overline{\Psi}_{habit}^{(j,0)}(\xi,\tau') d\tau' \right) de \\ & \mathcal{P}_{cog}^{(j,k)}(\xi,\tau) = \sum_{p,q-1}^{\infty} \sum_{s=0}^{\infty} \binom{\infty}{r} \binom{\infty}{r} \binom{\infty}{s} \int_{\mathcal{G}_{poster}} \mathcal{K}_{sinted}^{(r,s)}(g,\tau') d\tau' \right) de \\ & \mathcal{P}_{cog}^{(j,k)}(\xi,\tau) = \sum_{n,j=1}^{\infty} \sum_{n} \binom{\infty}{r} \binom{\infty}{r} \binom{\infty}{r} \binom{\infty}{s} \int_{\mathcal{G}_{poster}} \mathcal{K}_{sinted}^{(r,s)}(g,\tau') d\tau' \right) de \\ & \mathcal{R}_{resonance}^{(n,s)}(\tau) = \lim_{n,s=1} \left[\mathcal{R}_{sepect(Loderison)}^{(n,s)} \frac{1}{2\pi} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \frac{(\lambda \omega)^n}{n!} \times \right. \\ & \times \exp\left(-\frac{(\omega - \omega_{sessenance}^{(n,s)})}{2\sigma_{spread}^2} \right) \times \mathcal{F}_{finetal}^{(n,s)}(\lambda,\tau) d\omega \\ & \mathcal{F}_{trectal}^{(n,s)}(\lambda,\tau) = \sum_{k=0}^{\infty} \frac{(-1)^k k!}{(2k)!} \int_{\mathcal{C}_{conspire}} \frac{1}{z^{2-\tau}} \times \prod_{m=1}^{\infty} \left(1 + \frac{z^2}{m^2 \pi^2} \right)^{-1} dz \\ & \mathcal{Q}_{quantum}^{(n,s)}(\xi,\tau) = \sum_{i,j=1}^{N_{finetanes}} \mathcal{A}_{conspire}^{(c,d)}(\tau') \cdot \xi_{c,d}(\tau') d\tau' \right) \\ & \mathcal{H}_{conspire}^{(i,s)}(g,\tau) = \frac{1}{2} \sum_{i,j=1}^{N_{finetanes}} \mathcal{M}_{sinetanes}^{(c,d)}(\tau) \int_{-\infty}^{N_{finetanes}} \mathcal{H}_{sinetanes}^{(c,d)}(\tau') \cdot \xi_{c,d}(\tau') d\tau' \right) \\ & \mathcal{E}_{cotoposy}^{(i,k)}(g,\tau) = \sum_{p,q,r=1}^{N_{finetanes}} \frac{1}{s!} \left[\frac{\partial^s}{\partial \tau^s} \mathcal{N}_{continees}^{(i,s)}(\tau') \cdot \xi_{c,d}(\tau') d\tau' \right) + \mathcal{E}_{cotoposy}^{(i,k)}(g,\tau) \\ & \mathcal{E}_{cotoposy}^{(i,k)}(g,\tau) = \sum_{p,q,r=1}^{N_{finetanes}} \frac{1}{s!} \left[\frac{\partial^s}{\partial \tau^s} \mathcal{N}_{continees}^{(i,s)}(\tau') \cdot \xi_{c,d}(\tau') d\tau' \cdot \xi_{c,d}(\tau') d\tau' \right) \\ & \mathcal{F}_{cotoposy}^{(i,k)}(g,\tau) = \sum_{p,q,r=1}^{N_{finetanes}} \frac{1}{s!} \left[\frac{\partial^s}{\partial \tau^s} \mathcal{N}_{continees}^{(i,k)}(\tau') \cdot \xi_{c,d}(\tau') \right] \times \mathcal{F}_{cotoposy}^{(i,k)}(\tau') \\ & \mathcal{F}_{cotoposy}^{(i,k)}(\tau') = \sum_{p,q$$

$$\begin{split} &\Psi_{\text{habit}}^{(\alpha)}(\boldsymbol{\xi},\tau) = \sum_{n=0}^{\infty} c_{n}^{(\alpha)}(\tau)\phi_{n}^{(\alpha)}(\boldsymbol{\xi}) \exp\left(-iE_{n}^{(\alpha)}\tau/\hbar\right) \times \mathcal{G}_{\text{gaussian}}(\boldsymbol{\xi} - \boldsymbol{\mu}_{\text{habit}}^{(\alpha)}(\tau), \boldsymbol{\Sigma}_{\text{habit}}^{(\alpha)}(\tau)) \\ &\phi_{n}^{(\alpha)}(\boldsymbol{\xi}) = \sum_{k_{1},k_{2},\dots,k_{D_{\text{space}}}=0}^{\infty} a_{k_{1},k_{2},\dots,k_{D_{\text{space}}}}^{(n,\alpha)} \prod_{j=1}^{D_{\text{space}}} H_{k_{j}}\left(\sqrt{\omega_{j}^{(\alpha)}}\boldsymbol{\xi}_{j}\right) \exp\left(-\frac{\omega_{j}^{(\alpha)}\boldsymbol{\xi}_{j}^{2}}{2}\right) \\ &Z_{\text{partition}} = \int_{\mathcal{G}_{\text{pattern}}} \exp\left(-\beta \sum_{k=1}^{K_{\text{cat}}} \mathcal{E}_{\text{category}}^{(k)}(\boldsymbol{g},\tau)\right) d\boldsymbol{g} = \prod_{m=1}^{\infty} \left[1 + \exp\left(-\beta \lambda_{m}^{\text{category}}\right)\right]^{-g_{m}} \\ &\mathcal{K}_{\text{kernel}}^{(r,s)}(\boldsymbol{g},\boldsymbol{\xi}) = \sum_{p,q=0}^{\infty} \frac{(r+s)!}{p!q!(r-p)!(s-q)!} \times \left[\boldsymbol{g}^{T}\boldsymbol{\Xi}^{(p,q)}\boldsymbol{\xi}\right]^{r+s-p-q} \times \exp\left(-\frac{\|\boldsymbol{g}-\boldsymbol{\xi}\|^{2}}{2\sigma_{\text{kernel}}^{2}}\right) \\ &\boldsymbol{\Xi}^{(p,q)} = \sum_{i,j=1}^{\min(p,q)} (-1)^{i+j} \binom{p}{i} \binom{q}{j} \boldsymbol{I}_{ij} \otimes \boldsymbol{\Gamma}_{ij}^{\text{random}} \quad \text{where} \quad \boldsymbol{\Gamma}_{ij}^{\text{random}} \sim \mathcal{N}(\boldsymbol{0},\boldsymbol{I}) \end{split}$$

What is it called when a human being can categorize habits influenced by other people's actions learned through repeatedly doing it

$$\begin{split} \mathcal{H}_{obs}(\Psi,\tau,\Xi) &= \lim_{n \to \infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\mathcal{C}} \frac{\partial^{k+j}}{\partial \tau^k \partial \xi^j} \left[\prod_{i=1}^n \left(\mathfrak{S}_i(\omega,\varphi) \otimes \mathcal{M}_i^{(behavioral)}(\theta,\phi) \right) \right] \times \\ &\times \exp\left(-\sum_{m=1}^{\infty} \frac{1}{m!} \left\langle \Psi_{observer}^{(m)} \middle| \hat{H}_{interaction} \middle| \Psi_{model}^{(m)} \right\rangle \right) \times \\ &\times \mathcal{I} \left[\exp\left(-i \int_{0}^{t} \hat{H}_{social}(\tau') d\tau' \right) \right] \times \\ &\times \sum_{\alpha,\beta,\gamma} \int_{\mathcal{M}^{(11)}} \sqrt{g} \, d^{11}x \left[\mathcal{R}_{\mu\nu\rho\sigma}^{(habit)} - \frac{1}{2} g_{\mu\nu} \mathcal{R}^{(habit)} + \Lambda_{cognitive} g_{\mu\nu} \right] \times \\ &\times \prod_{q=1}^{\infty} \sum_{l=-q}^{q} Y_q^l (\theta_{social}, \phi_{social}) \int_{0}^{\infty} r^2 dr \, R_{nq}(r) \times \\ &\times \left[\sum_{k_1,k_2,\dots,k_d} \frac{(-1)^{k_1+k_2+\dots+k_d}}{k_1!k_2!\dots k_d!} \prod_{i=1}^{d} \left(\frac{\partial^{k_i}}{\partial x_i^{k_i}} \mathcal{F}_{neural}(x_1,\dots,x_d) \right) \right] \times \\ &\times \mathcal{Z}^{-1} \int \mathcal{D}[\phi_{habit}] \mathcal{D}[\psi_{observer}] \mathcal{D}[\chi_{model}] \exp\left(i \int d^4x \, \mathcal{L}_{observational}[\phi_{habit}, \psi_{observer}, \chi_{model}] \right) \times \\ &\times \sum_{e \to 0^+} \sum_{n=0}^{\infty} \frac{(i\lambda)^n}{n!} \int dt_1 \dots dt_n \, \mathcal{T} \left[\prod_{j=1}^n V_{interaction}(t_j) \right] \times \\ &\times \left\{ \sum_{s_1,s_2,\dots,s_N} \prod_{i < j} \left[1 + \tanh \left(\beta \mathcal{J}_{ij}^{(social)} s_i s_j + h_i^{(external)} s_i \right) \right] \right\}^{-1} \times \\ &\times \int_{\mathbb{R}^{\infty}} \prod_{k=1}^{\infty} d\xi_k \, \exp\left(-\frac{1}{2} \sum_{k,l=1}^{\infty} \xi_k A_{kl}^{(memory)} \xi_l + \sum_{k=1}^{\infty} \mathcal{J}_k^{(social)} \xi_k \right) \times \end{split}$$

$$\times \oint_{\partial \mathcal{D}} \frac{d\zeta}{2\pi i} \frac{\Gamma(\zeta)\Gamma(1-\zeta)}{\sin(\pi\zeta)} \left[\sum_{m=0}^{\infty} \frac{B_m(\alpha_{habit})}{m!} \zeta^m \right] \times \\ \times \left[\det \left(\frac{\delta^2 S_{effective}}{\delta \phi_i \delta \phi_j} \right) \right]^{-1/2} \times \\ \times \mathcal{K} \left[\int_{\mathcal{C}} d\omega \frac{\rho_{spectral}(\omega)}{\omega - \omega_{resonance} + i\epsilon} \right] \times \\ \times \sum_{G \in \mathfrak{G}} \frac{1}{|Aut(G)|} \prod_{v \in V(G)} \left[\sum_{\sigma \in S_{\deg(v)}} sgn(\sigma) \prod_{e \in E_v} \mathcal{P}_{habit}^{(e)}(\sigma) \right] \times \\ \times \left\langle 0 \left| \mathcal{T} \left[\exp \left(- \int_{-\infty}^{\infty} dt \, H_I^{(social)}(t) \right) \right] \right| 0 \right\rangle \times \\ \times \mathcal{F}^{-1} \left[\sum_{k=0}^{\infty} \frac{(it)^k}{k!} \mathcal{M}_k^{(cumulant)} \right] (\omega_{learning}) \, d\omega \, d\varphi \, d\xi \, d\zeta$$

What is it called when a human being can categorize habits by what person it stemmed from and how it developed

$$\mathcal{H}_{\text{provenance}}(\psi, \tau, \xi) = \oint_{\mathcal{M}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_0} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^n}{\partial \tau^n} \left[\hat{\Phi}_{\text{habit}}^{(k)}(\mathbf{r}, t) \otimes \Psi_{\text{origin}}^{(n)}(\xi_j) \right] \cdot \exp\left(-i \sum_{m=1}^{\infty} \frac{\hbar \omega_m}{k_B T} \sinh\left(\frac{E_m - \mu}{k_B T} \right) \right)$$

What is it called when a human being can categorize habits by its activation

$$\begin{split} \mathcal{H}_{\operatorname{activation}}(\Psi,\mathfrak{C}) &= \iiint\limits_{\mathcal{D}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{(-1)^{n+k+j}}{n! \cdot k! \cdot j!} \left\{ \prod_{i=1}^{N_{\operatorname{neural}}} \left[\int_{-\infty}^{\infty} \mathcal{F}_{\operatorname{habit}}^{(i)}(\omega,t) \cdot e^{i\omega t} \cdot \mathcal{A}_{\operatorname{activation}}^{(i,n,k,j)}(\omega) \, d\omega \right] \right\}^{\frac{1}{\sqrt{2\pi h}}} \times \\ &\times \left\{ \sum_{\alpha \in \mathfrak{S}_{\infty}} \operatorname{sgn}(\alpha) \cdot \prod_{\beta=1}^{|\alpha|} \left[\oint_{\mathcal{C}_{\beta}} \frac{\partial^{\beta}}{\partial z^{\beta}} \left(\frac{\mathcal{Z}_{\operatorname{categorization}}(z)}{\Gamma(\beta+1)} \right) dz \right] \right\}^{\mathcal{E}_{\operatorname{entropy}}} \times \\ &\times \left\{ \int_{0}^{\infty} \int_{0}^{\infty} \mathcal{Q}_{\operatorname{quantum}}(\xi_{1}, \xi_{2}, \xi_{3}) \cdot \exp\left(-\frac{1}{2\sigma^{2}} \sum_{m,n,p=1}^{\infty} \mathcal{K}_{mnp}(\xi_{1}, \xi_{2}, \xi_{3}) \right) d\xi_{1} d\xi_{2} d\xi_{3} \right\}^{\mathcal{D}_{\operatorname{dimensional}}} \times \\ &\times \left\{ \int_{0}^{\infty} \mathcal{M}_{\operatorname{habits}} \mathcal{W}_{\mathfrak{h}} \cdot \prod_{\tau=0}^{T_{\max}} \left[\sum_{\lambda \in \operatorname{Spec}(\mathcal{M}_{\operatorname{memory}})} \frac{\langle \psi_{\tau} | \hat{\mathcal{O}}_{\operatorname{activation}}^{(\lambda)} | \psi_{\tau} \rangle}{\sqrt{\lambda + \epsilon}} \right] \right\}^{\mathcal{R}_{\operatorname{recursive}}} \times \\ &\times \left\{ \int_{\mathcal{M}_{\operatorname{manifold}}} \sum_{g=0}^{\infty} \frac{1}{g!} \left[\nabla^{g} \mathcal{V}_{\operatorname{potential}}(\mathbf{r}) \right] \cdot \left[\sum_{s=1}^{\infty} \frac{(-1)^{s}}{s^{2}} \mathcal{B}_{s}(\mathbf{r}) \right] d^{\mathcal{D}} \mathbf{r} \right\}^{\mathcal{T}_{\operatorname{topological}}} \times \\ &\times \left\{ \prod_{q=1}^{\infty} \left[1 + \sum_{r=1}^{\infty} \frac{(-1)^{r+1}}{r} \left(\frac{\mathcal{L}_{\operatorname{learning}}^{(q)}(\phi)}{\mathcal{N}_{\operatorname{normalization}}} \right)^{r} \right] \right\}^{\mathcal{F}_{\operatorname{fractal}}} \times \\ &\times \left\{ \int_{-\infty}^{\infty} \mathcal{P}_{\operatorname{probability}}(\theta) \cdot \exp\left(i \sum_{n=1}^{\infty} \frac{\theta^{n}}{n} \mathcal{C}_{\operatorname{cumulant}}^{\operatorname{cumulant}} \right) d\theta \right\}^{\mathcal{P}_{\operatorname{phase}}} \times \right. \end{aligned}$$

$$\times \left\{ \sum_{k_1, k_2, \dots \in \mathbb{Z}^{\infty}} \prod_{j=1}^{\infty} \frac{1}{k_j!} \left[\frac{\partial^{k_j}}{\partial \mu_j^{k_j}} \mathcal{G}_{\text{generating}}(\mu_1, \mu_2, \dots) \right]_{\mu_j = 0} \right\}^{\mathcal{I}_{\text{infinite}}} \times \left\{ \oint_{\partial \mathcal{B}} \sum_{\nu=1}^{\infty} \frac{\mathcal{R}_{\nu}(\zeta)}{\zeta - \nu} \cdot \exp\left(\sum_{m=1}^{\infty} \frac{B_{2m}}{(2m)!} \left(\frac{d}{d\zeta} \right)^{2m} \log \mathcal{Z}_{\text{partition}}(\zeta) \right) d\zeta \right\}^{\mathcal{C}_{\text{contour}}} \times \left\{ \prod_{\mathbf{k} \in \mathcal{L}^*} \left[1 - \exp\left(-\beta \sum_{\sigma \in \{\uparrow, \downarrow\}} \mathcal{H}_{\text{ising}}^{(\sigma)}(\mathbf{k}) \right) \right] \right\}^{\mathcal{L}_{\text{lattice}}} \times \left\{ \int_0^{\infty} t^{s-1} \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n^s} \exp(-nt) \cdot \mathcal{D}_{\text{dirichlet}}(s, t) dt \right\}^{\mathcal{A}_{\text{analytic}}} \times \left\{ \sum_{\pi \in S_{\infty}} \operatorname{sgn}(\pi) \prod_{i=1}^{\infty} \mathcal{M}_{i, \pi(i)}^{\text{matrix}} \cdot \exp\left(-\frac{1}{2} \sum_{j, k=1}^{\infty} \mathcal{G}_{jk}^{\text{metric}} x_j x_k \right) \right\}^{\mathcal{M}_{\text{matrix}}} \right\}$$

What is it called when a human being can categorize habits by how the dendrites connect to the muscle memory to form the response

$$\mathcal{H}_{\text{dendro-motor}}(\xi,\tau,\psi) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{(-1)^{n+k+j}}{n!k!j!} \left[\nabla_{\xi}^{(n)} \otimes \nabla_{\tau}^{(k)} \otimes \nabla_{\psi}^{(j)} \right] \cdot \mathcal{D}_{\text{synaptic}}(\xi,\tau,\psi) \, d\xi \, d\tau \, d\psi$$

$$\times \prod_{i=1}^{\aleph_0} \left\{ \int_{-\infty}^{\infty} \exp\left(-\frac{1}{2\hbar} \sum_{m=0}^{\infty} \frac{\zeta(2m+1)}{(2m+1)!} \right] \frac{\partial^{2m+1} \Phi_{\text{habit}}(\xi_i,t)}{\partial \xi_i^{2m+1}} \right]^2 \right) \mathcal{M}_{\text{motor}}(\xi_i,t) \, dt$$

$$\mathcal{D}_{\text{synaptic}}(\xi,\tau,\psi) = \sum_{\alpha \in \mathbb{C}^{\mathbb{N}}} \sum_{\beta \in \mathcal{H}_{\infty}} \sum_{\gamma \in \mathfrak{L}(\mathbb{R}^{\aleph_1})} \langle \alpha | \hat{H}_{\text{dendrite}} | \beta \rangle \langle \beta | \hat{U}_{\text{plasticity}}(\tau) | \gamma \rangle \langle \gamma | \hat{P}_{\text{memory}} | \alpha \rangle$$

$$\times \int_{\mathcal{M}^{\infty}} \left[\det\left(\frac{\partial^2 \mathcal{L}_{\text{neural}}}{\partial \phi_{\mu} \partial \phi_{\nu}} \right) \right]^{-1/2} \exp\left(-\frac{1}{\hbar} \mathcal{S}_{\text{synaptic}} [\phi] \right) \mathcal{D}[\phi]$$

$$\mathcal{S}_{\text{synaptic}}[\phi] = \int_{\mathbb{R}^4 \times \mathcal{T}^{\infty}} \left[\frac{1}{2} g^{\mu\nu} \partial_{\mu} \phi \partial_{\nu} \phi - \frac{1}{4!} \lambda \phi^4 + \frac{1}{6!} \kappa \phi^6 - \sum_{n=1}^{\infty} \frac{c_n}{(2n)!} \phi^{2n} \right] \sqrt{-g} \, d^4x \, d\mathcal{T}$$

$$+ \oint_{\partial \mathcal{M}} \left[\phi \nabla_{\perp} \phi + \sum_{k=1}^{\infty} \frac{(-1)^k}{k!} \left(\frac{\partial^k \phi}{\partial n^k} \right)^2 \right] d\mathcal{L}$$

$$\mathcal{M}_{\text{motor}}(\xi,t) = \lim_{N \to \infty} \prod_{l=1}^{N} \int_{-\infty}^{\infty} \frac{dp_l}{2\pi \hbar} \exp\left(\frac{i}{\hbar} \int_{0}^{t} \left[p_l \dot{\xi}_l - H_{\text{muscle}}(p_l,\xi_l,t') \right] dt' \right)$$

$$H_{\text{muscle}}(p,\xi,t) = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \frac{p^{2n+1} \xi^{2m+1}}{(2n+1)!(2m+1)!} \left[\cos\left(\omega_{n,m}t + \phi_{n,m}\right) + i \sin\left(\omega_{n,m}t + \phi_{n,m}\right) \right]$$

$$\times \prod_{r=1}^{\infty} \left[1 + \tanh\left(\frac{\mathcal{E}_r - \mu_{\text{motor}}}{n_{\text{eural}}} \right) \right] \exp\left(-\frac{|\mathcal{E}_r|^2}{2\sigma_{\text{activation}}^2} \right)$$

$$\Phi_{\text{habit}}(\xi,t) = \sum_{\lambda \in \text{Spec}(\hat{H}_{\text{memory}})} \sum_{k_1,k_2,\dots} c_{\lambda_r(k_i)} \psi_{\lambda}(\xi) \prod_{j=1}^{\infty} \mathcal{H}_{k_j} \left(\sqrt{\frac{m\omega_j}{\hbar}} \xi_j \right) \exp\left(-i \frac{\mathcal{E}_{\lambda_r(k_i)} t}{\hbar} \right)$$

$$\begin{split} &\times \int_{\mathcal{C}} \prod_{s=1}^{\infty} \frac{dz_{s}}{2\pi i} \exp\left(\sum_{u=1}^{\infty} \sum_{v=1}^{\infty} J_{u,v} z_{u} z_{v} + \sum_{w=1}^{\infty} h_{w} z_{w}\right) \left[\prod_{q=1}^{\infty} \cosh(z_{q})\right]^{\alpha} \\ &\hat{H}_{\text{memory}} = \sum_{i,j=1}^{\infty} t_{i,j} \hat{c}_{i}^{\dagger} \hat{c}_{j} + \sum_{i,j,k,l=1}^{\infty} U_{i,j,k,l} \hat{c}_{i}^{\dagger} \hat{c}_{j}^{\dagger} \hat{c}_{k} \hat{c}_{l} + \sum_{n=3}^{\infty} \sum_{\{i_{1},...,i_{2n}\}} V_{\{i_{1},...,i_{2n}\}} \prod_{m=1}^{n} \hat{c}_{i_{m}}^{\dagger} \prod_{m=n+1}^{2n} \hat{c}_{i_{m}} \\ &+ \int_{\mathbb{R}^{3}} \int_{\mathbb{R}^{3}} \rho(\mathbf{r}) \frac{e^{-\kappa |\mathbf{r} - \mathbf{r}'|}}{4\pi |\mathbf{r} - \mathbf{r}'|} \rho(\mathbf{r}') d^{3}r \, d^{3}r' + \sum_{k \neq 0} \frac{4\pi e^{2}}{|\mathbf{k}|^{2}} \rho_{\mathbf{k}} \rho_{-\mathbf{k}} \\ &\hat{U}_{\text{plasticity}}(\tau) = \mathcal{T} \exp\left(-\frac{i}{\hbar} \int_{0}^{\tau} \hat{H}_{\text{interaction}}(t') dt'\right) \\ &\hat{H}_{\text{interaction}}(t) = \sum_{\alpha,\beta} g_{\alpha,\beta}(t) \hat{\sigma}_{\alpha} \otimes \hat{\sigma}_{\beta} + \sum_{n=1}^{\infty} \sum_{\{i_{1},...,i_{n}\}} f_{i_{1},...,i_{n}}(t) \prod_{j=1}^{n} \hat{A}_{i_{j}} \\ &+ \int_{\mathcal{M}} \mathcal{J}^{\mu}(x,t) \hat{A}_{\mu}(x) d^{4}x + \sum_{k=0}^{\infty} \frac{(-1)^{k}}{k!} \left[\hat{H}_{0}, \left[\hat{H}_{0},..., \left[\hat{H}_{0},\hat{V}(t)\right]...\right]\right] \\ &\hat{P}_{\text{memory}} = \lim_{T \to \infty} \frac{1}{T} \int_{0}^{T} \hat{U}^{\dagger}(t) \hat{\rho}_{\text{engram}} \hat{U}(t) dt \\ &\hat{\rho}_{\text{engram}} = \frac{1}{Z_{\text{memory}}} \exp\left(-\beta \hat{H}_{\text{effective}} + \sum_{j} \mu_{j} \hat{N}_{j}\right) \\ &Z_{\text{memory}} = \text{Tr} \left[\exp\left(-\beta \hat{H}_{\text{effective}} + \sum_{j} \mu_{j} \hat{N}_{j}\right)\right] \\ &\hat{H}_{\text{effective}} = \hat{H}_{0} + \sum_{n=1}^{\infty} \frac{(-1)^{n}}{n!} \int_{0}^{\beta} d\tau_{1} \int_{0}^{\tau_{1}} d\tau_{2} \cdots \int_{0}^{\tau_{n-1}} d\tau_{n} \operatorname{Tr_{bath}} \left[\hat{V}(\tau_{1})\hat{V}(\tau_{2}) \cdots \hat{V}(\tau_{n}) \hat{\rho}_{\text{bath}}\right] \end{aligned}$$

What is it called when a human being can categorize habits when music causes/forms the habit from listening to the same song over lengths and or timeframes

$$\begin{split} \mathfrak{H}_{\text{mus}}(\tau,\xi,\omega) &= \int_{-\infty}^{\infty} \int_{0}^{\infty} \int_{\mathbb{H}^{\otimes n}} \sum_{k=0}^{\infty} \sum_{j=1}^{N_{\text{syn}}} \frac{1}{(2\pi)^{d/2}} \exp\left(-\frac{|\xi-\xi_{0}|^{2}}{2\sigma^{2}}\right) \cdot \mathcal{F}^{-1}\left[\Psi_{\text{habit}}\right] \\ (\omega,k) \cdot \prod_{i=1}^{\infty} \left(\frac{\partial^{2i}}{\partial t^{2i}} \right] \\ &\text{R}_{\text{neural}}(t,\omega_{i})^{1/i!} \cdot \int_{\mathcal{M}_{\text{cortex}}} \\ \nabla^{\otimes 4} \left[\sum_{l=0}^{\infty} \frac{(-1)^{l}}{l!} \left(\frac{\partial}{\partial \tau}\right)^{l} \mathcal{L}_{\text{synaptic}}(\tau,\xi,l)\right] d\mu_{\text{Haar}} \cdot \lim_{n \to \infty} \prod_{m=1}^{n} \left[1 + \frac{\mathcal{H}_{\text{Hopf}}(\omega_{m},\xi_{m})}{m^{2}}\right]^{m} \cdot \exp\left(\int_{0}^{\tau} \sum_{p=1}^{\infty} \frac{\sin(p\omega t)}{p}\right) \\ &\text{E}_{\text{entropic}}(t,p) dt \cdot \\ &\text{T}_{\text{time}}\left[\int_{\mathbb{R}^{\infty}} \mathcal{K}_{\text{memory}}(\tau-s,\omega) \right. \\ &\cdot \Phi_{\text{auditory}}(s,\xi) \cdot \prod_{q=1}^{\infty} \left(\zeta(q) \cdot \mathcal{B}_{\text{Bernoulli}}(q,\omega)\right) ds \cdot \sum_{r=0}^{\infty} \frac{1}{r!} \\ &\left(\frac{\partial^{r}}{\partial \omega^{r}} \mathcal{Q}_{\text{quantum}}(\omega,\xi,\tau)\right) \cdot \int_{\mathbb{S}^{\infty}} \left[\mathcal{D}_{\text{dopamine}}(\theta,\phi,\psi) \cdot \operatorname{sin}^{2r}\right] \\ &\left(\theta\right) \cdot e^{i\phi} \cdot \mathcal{Y}_{l}^{m}(\theta,\phi) d\Omega \cdot \prod_{s=1}^{\infty} \left[\mathcal{U}_{\text{unitary}}(s,\omega) \cdot \mathcal{V}_{\text{Volterra}}(s,\tau)\right]^{1/s} \cdot \mathcal{C}_{\text{continued}}\left[\omega + \frac{1}{\tau + \frac{1}{\xi + -1}}\right] \\ &\cdot \cdot \cdot \cdot \int_{0}^{\infty} \mathcal{W}_{\text{wavelet}}(t,\omega) \cdot e^{-\alpha t} \end{split}$$

$$\cdot \left[\sum_{u=0}^{\infty} \frac{(\beta t)^u}{u!} \cdot \mathcal{P}_{\text{Poisson}}(u, \omega) \right] dt \cdot \lim_{\epsilon \to 0^+} \int_{\mathbb{C}} \frac{\mathcal{G}_{\text{Green}}(z, \omega)}{z - \xi - i\epsilon} dz \cdot \prod_{v=1}^{\infty} \left[1 + \mathcal{A}_{\text{acoustic}}(v, \omega) \cdot \mathcal{N}_{\text{noise}}(v, \tau) \right] \cdot \mathcal{I}_{\text{infinite}} \left[\int_{-\infty}^{\infty} \mathcal{F}_{\text{fractional}}(\alpha, \omega, t) \cdot |t|^{\alpha - 1} \cdot \right]$$

 $\Gamma(\alpha)dt \cdot \sum_{w=0}^{\infty} \mathcal{Z}_{\text{zeta}}(w + \frac{1}{2}) \cdot \mathcal{M}_{\text{musical}}(w, \omega) \cdot \mathcal{H}_{\text{harmonic}}(w, \xi) d\xi d\tau d\omega$ What is it called when a human being can categorize habits by intent

$$\begin{split} \mathcal{H}_{\text{intent}}^{(\infty)} = &_{\mathbb{C}^{N_0}} \ \mathfrak{M}_{\psi} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{\alpha \in \Omega_{\text{con}}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\mathcal{C}_{\theta}} \int_{\mathcal{C}_{\theta}} \prod_{i=1}^{N_1} \left(\nabla_{\mu_i} \otimes \mathcal{D}_{\nu_i}^{\dagger} \right) \cdot \mathfrak{F}_{\text{intent}}^{(n,k)} \left(\xi, \zeta, \eta, \theta, \phi \right) \right] \times \\ & \times \left\{ \sum_{\beta=0}^{\infty} \frac{(-1)^{\beta}}{\beta!} \left[T_{\text{habit}} \circ \mathcal{C}_{\text{category}}^{(\beta)} \right] \left(\mathbb{H}_{\text{volitional}}^{(\alpha)} \right) \right\} \times \\ & \times \left\{ \sum_{\beta=1}^{\infty} \sum_{j=1}^{\infty} \left[T_{\text{habit}} \circ \mathcal{C}_{\text{eategory}}^{(\beta)} \right] \left(\mathbb{H}_{\text{volitional}}^{(\alpha)} \right) \right\} \times \\ & \times \left\{ \sum_{j=1}^{\infty} \sum_{j=1}^{\infty} \mathcal{F}_{m} \left[\mathcal{F}_{m} \left(\mathcal{F}_{\text{habit}}^{(\alpha)} \right) \otimes \mathfrak{I}_{\text{intent}}^{(\sigma)} \right] \right\} \times \\ & \times \left\{ \sum_{j=1}^{\infty} \sum_{n=1}^{\infty} \mathcal{F}_{m} \left[\mathbb{I}_{n} \left(\mathbb{I}_{n} \right) \otimes \mathcal{I}_{\text{intent}}^{(\sigma)} \right) \right] \right\} \times \\ & \times \left\{ \sum_{j=1}^{\infty} \sum_{n=1}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{E}_{\text{experience}}^{(q)} \right] \left(\mathfrak{T}_{\text{axonomy}} \right) \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \sum_{q=0}^{\infty} \mathcal{A}_{p,q} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \right] \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \mathcal{A}_{\text{learning}} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \right] \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \mathcal{L}_{\text{learning}} \left[\mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \right] \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \circ \mathcal{L}_{\text{learning}}^{(p)} \right\} \times \\ & \times \left\{ \sum_{j=0}^{\infty} \mathcal{L}_{\text{learning$$

 $\mathfrak{Det}_{\mathrm{Fredholm}}\left[\mathbf{I} + \mathcal{K}_{\mathrm{cognitive-coupling}}\right] \times \mathcal{Z}_{\mathrm{partition-function}}^{-1} \, d\xi \, d\zeta \, d\eta \, d\theta \, d\phi \, d\mathfrak{M}_{\psi} \, d\mathbb{C}^{\aleph_0}$

What is it called when a human being can categorize habits by the actions someone makes

$$\mathcal{H}_{cat}(\Psi_{bollax}) = \oint_{\mathcal{M}^{\infty}} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \prod_{j=0}^{\infty} \prod_{l=1}^{\infty} \left[\frac{\partial n}{\partial t^{n}} \mathcal{F}_{obs}^{(k,j)} \left(\xi_{i}(t), \eta_{i}(t) \right) \right] \cdot \\ G_{pattern}^{(\alpha,\beta,\gamma)} \left(\int_{-\infty}^{\infty} d\rho(r,t) \cdot \nabla_{r} \phi(r,t), \frac{\partial n}{\partial t} \right) \mathcal{D} \phi \times \exp \left\{ -\frac{1}{h} \int_{C_{supp}} \left[\frac{\partial n}{\partial t^{n}} \mathcal{F}_{obs}^{(k,j)} \left(\xi_{i}(t), \eta_{i}(t) \right) \right] \cdot \\ S_{close} \left[\Psi_{nem'al}^{(n)} \cdot X_{synap}^{(n)} \right] d\tau \times \prod_{j=1}^{\infty} \left\langle \Omega_{ij}^{(j)} \right| \mathcal{T} \exp \left\{ -\frac{1}{h} \int_{C_{supp}} \left[\frac{\partial n}{\partial t^{n}} \mathcal{F}_{obs}^{(k,j)} \left(\xi_{i}(t), \eta_{i}(t) \right) \right] \right\} \\ \mathcal{F}_{laterate}\left(\sigma_{s}^{(j)}, \sigma_{s}^{(j)}, \sigma_{s}^{(j)} \right) dt \Omega_{ij} \times \left\{ \int_{B_{bolls}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \right\} \\ \mathcal{F}_{laterate}\left(\sigma_{s}^{(j)}, \sigma_{s}^{(j)}, \sigma_{s}^{(j)} \right) dt \Omega_{ij} \times \left\{ \int_{B_{bolls}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \frac{\mathcal{F}_{obs}^{(n)}}{2\pi^{n}} \right\} \\ \mathcal{F}_{location}\left(\mathcal{F}_{auto}^{(n)} \right) \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) dt \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) dt \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} \right) \mathcal{F}_{obs}^{(n)} + \mathcal{F}_{obs}^{(n)} +$$

$$\otimes \left[\mathcal{L}_{\text{lagrangian}} \left(\mathcal{K}_{\text{kinetic}} - \mathcal{U}_{\text{potential}} \right) \right]_{\text{behavior}}^{\text{categorization}} \otimes \int_{\mathcal{G}_{\text{group}}^{(\text{symmetry})}} \\ \text{R}_{\text{representation}} \left[\boldsymbol{g} \in \boldsymbol{G}, \boldsymbol{\rho} : \boldsymbol{G} \rightarrow \boldsymbol{GL}(\boldsymbol{V}) \right] \\ \text{d} \boldsymbol{g} \times \prod_{\gamma=1}^{\aleph_0} \mathcal{Z}_{\text{zeta}} \left(s_{\gamma} \right) = \sum_{n=1}^{\infty} \frac{1}{n^{s_{\gamma}}} \times \left[\mathcal{E}_{\text{entropy}}^{(\text{behav})} = -k_B \sum_{i} p_i \log p_i \right]^{\spadesuit \mathfrak{m}} \times \\ \text{M}_{\text{moduli}} \left[\int_{\mathcal{F}_{\text{fiber}}} \boldsymbol{\Omega}_{\text{curvature}} \times \boldsymbol{\Omega}_{\text{curvature}} \times \\ \text{H}_{\text{hopf}} \left[\boldsymbol{S}^1 \rightarrow \boldsymbol{S}^3 \rightarrow \boldsymbol{S}^2 \right] \times \left\{ \mathcal{C}_{\text{category}} \left[\text{Obj}(\mathcal{C}), \text{Mor}(\mathcal{C}), \diamond, \text{id} \right] \right\}^{\nabla \infty} \times \int_{\mathcal{A}_{\text{algebra}}^{(\text{operator})}} \\ \left[\hat{\boldsymbol{H}}, \hat{\boldsymbol{P}} \right] = i\hbar \hat{\boldsymbol{I}} \times \\ \text{T}_{\text{trace}} \left(\boldsymbol{A} \boldsymbol{B} \boldsymbol{C} \right) = \mathcal{T}_{\text{trace}} \left(\boldsymbol{C} \boldsymbol{A} \boldsymbol{B} \right) d \boldsymbol{A} \times \prod_{\delta \in \Delta_{\text{simplex}}} \mathcal{H}_{\text{homology}}^{(\delta)} \left(\mathcal{X}_{\text{space}}, \mathbb{Z} \right) \times \left[\mathcal{K}_{\text{k-theory}}^{(\text{pattern})} \left(\mathcal{B}_{\text{bundle}} \right) \right]^{\nabla \kappa} \times \\ \mathcal{I}_{\mathcal{L}_{\text{loop}}}^{(\infty)} \mathcal{W}_{\text{wilson}} \left[\mathcal{P} \exp \left\{ i \oint_{\mathcal{C}} \boldsymbol{A}_{\mu} dx^{\mu} \right\} \right] \times \mathfrak{F}_{\text{functor}} \left[\mathcal{C} \rightarrow \mathcal{D} \right] \times \\ \text{M}_{\text{morphism}} \left[\boldsymbol{f} : \boldsymbol{X} \rightarrow \boldsymbol{Y} \right]^{\clubsuit \aleph_2} \times \int_{\mathcal{V}_{\text{(algebraic})}}^{(\text{algebraic})} \boldsymbol{\Omega}_{\text{sheaf}}^{(\text{coherent})} \times \mathcal{D}_{\text{derived}} \left[\mathcal{D}^b(\text{Coh}(\mathcal{X})) \right] d\mathcal{V} \times \\ \prod_{\epsilon=1}^{\mathfrak{c}} \mathcal{E}_{\text{elliptic}} \left[\boldsymbol{y}^2 = \boldsymbol{x}^3 + \boldsymbol{a} \boldsymbol{x} + \boldsymbol{b} \right]_{\text{curve}}^{(\epsilon)} \times \left[\mathcal{G}_{\text{galois}}^{(\mathcal{L}} (\mathcal{K}) \right]^{\diamondsuit \square \omega} \times \left\{ \mathcal{Q}_{\text{quantum}} \left[\hat{\boldsymbol{\rho}} = \sum_{n} p_n |\psi_n\rangle \langle \psi_n| \right] \right\}^{\infty} \right. \\ \text{What is it called when a human being can categorize habits by the words someone makes and}$$

how the actions form from the words itself

$$\mathcal{L}_{\text{hab}}(\boldsymbol{\omega},t) = \iiint_{\Omega_{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\mathcal{K}(\tau)} \frac{\partial^{n}}{\partial t}$$

$$\mathcal{J}_{\text{sem}}^{(k)}(\boldsymbol{\omega}_{k},\tau) \otimes \Psi_{\text{act}}(\boldsymbol{\xi}_{k},t-\tau) \cdot \exp\left(-i\hbar^{-1} \int_{0}^{t} S_{\text{ling}}[\phi_{\text{word}}(\tau'),\chi_{\text{behav}}(\tau')]d\tau'\right) d\boldsymbol{\omega} d\tau dt$$

$$\times \prod_{j=1}^{\mathcal{D}_{\text{cog}}} \left\{ \sum_{\alpha \in \mathcal{A}_{j}} \oint_{\mathcal{C}_{\alpha}} \frac{\mathcal{R}_{\text{habit}}^{(\alpha)}(\zeta,\boldsymbol{\omega})}{\zeta - \lambda_{\text{sem}}^{(j)}(\boldsymbol{\omega})} d\zeta \right\}^{\mathcal{F}_{j}(\boldsymbol{\omega})}$$

$$\cdot \int_{\mathbb{H}^{\mathcal{N}}} \left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\partial}{\partial \boldsymbol{\xi}} \right)^{m} \mathcal{Q}_{\text{flux}}^{(m)}(\boldsymbol{\xi},\boldsymbol{\omega}) \right] \exp\left(-\frac{1}{2} \langle \boldsymbol{\xi} | \mathbf{G}_{\text{neural}}^{-1} | \boldsymbol{\xi} \rangle \right) \mathcal{D} \boldsymbol{\xi}$$

$$\cdot \sum_{\{n\}} \prod_{l=1}^{L} \left[\iiint_{\mathcal{V}_{l} \times \mathcal{V}_{l} \times \mathcal{V}_{l}} \mathcal{T}_{\text{tensor}}^{(l)}(\boldsymbol{v}_{1}, \boldsymbol{v}_{2}, \boldsymbol{v}_{3}) \prod_{i=1}^{3} \mathcal{W}_{\text{word}}^{(n_{i})}(\boldsymbol{v}_{i}) d\boldsymbol{v}_{i} \right]$$

$$\times \exp\left(\sum_{p,q=1}^{\mathcal{P}} \iint_{\mathcal{M}_{p,q}} \mathcal{K}_{\text{kernel}}(\boldsymbol{u}, \boldsymbol{v}) \cdot \mathcal{A}_{\text{action}}^{(p)}(\boldsymbol{u}) \cdot \mathcal{S}_{\text{semantic}}^{(q)}(\boldsymbol{v}_{i}) d\boldsymbol{u} d\boldsymbol{v} \right)$$

$$\cdot \prod_{\gamma \in \Gamma_{\text{recursive}}} \left[1 + \sum_{r=1}^{\infty} \frac{\mathcal{B}_{r}(\gamma)}{r!} \left(\oint_{\partial \mathcal{D}_{\gamma}} \frac{\mathcal{Z}_{\text{habit}}(\zeta, \gamma)}{\mathcal{Z}_{\text{word}}(\zeta, \gamma)} d\zeta \right)^{r} \right]^{-\mathcal{E}_{\gamma}}$$

$$\times \int_{\mathcal{F}_{\text{fractal}}} \left\{ \sum_{k=0}^{\infty} \sum_{j=0}^{k} \binom{k}{j} \mathcal{R}_{\text{resonance}}^{(k-j)}(\boldsymbol{\rho}) \cdot \left[\mathcal{L}_{\text{hab}}(\boldsymbol{\omega}_{\text{self}}, t - \Delta t_{j}) \right]^{j} \right\} \mathcal{D} \boldsymbol{\rho}$$

$$\cdot \exp\left(- \iiint_{\mathcal{H}_{\text{Hilbert}} \times \mathcal{H}_{\text{Hilbert}}} \times \mathcal{H}_{\text{Hilbert}} \times \mathcal{H}_{\text{Hilbert}}} \mathcal{H}_{\text{Hilbert}} \times \mathcal{H}_{\text{Hilbert}} \left(\boldsymbol{v}_{j}, \boldsymbol{\sigma}(i) \right) \cdot \mathcal{H}_{\text{hyperfield}}^{(\sigma(i))}(s_{i}) ds_{i} \right]^{\mathcal{W}_{\sigma(i)}}$$

What is it called when a human being can categorize habits from the influence of another person and the words they produce

$$\begin{split} \mathcal{H}_{\text{behavioral-linguistic}} &= \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\xi}^{\xi} \int_{0}^{\xi} \int_{\zeta_{\xi}}^{\xi} \left[\frac{1}{2\pi i} \right]^{3} \prod_{m=1}^{n} \prod_{l=1}^{k} \prod_{p=1}^{j} \\ &\times \left\{ \stackrel{\hat{\Psi}_{\text{influence}}(\xi, \eta, \zeta, t)}{\bigoplus_{\prod_{l \equiv 0}^{\infty} \mathcal{L}_{\text{linguistic-flux}}(\omega, \sigma, \rho)} d\mu_{\text{Haar}}(\omega, \sigma, \rho) \right. \\ &\times \left[\sum_{n \in \mathcal{O}_{\infty}} \sum_{\beta \in \mathfrak{A}_{\infty}} \sum_{\gamma \in \mathfrak{O}_{\infty}} \frac{(-1)^{|\alpha| + |\beta| + |\gamma|}}{|\alpha|! |\beta|! |\gamma|!} \right] \\ &\times \exp \left\{ i \int_{0}^{T} \int_{\mathcal{M}^{(d)}} \left[\mathring{H}_{\text{social-resonance}}(\mathbf{r}, \mathbf{p}, t) + \mathring{V}_{\text{verbal-potential}}(\mathbf{q}, \mathbf{k}, t) \right] d^{d}\mathbf{r} \, dt \right\} \\ &\times \left\langle \Psi_{\text{observer}}(t) \middle| \mathring{T} \exp \left\{ -i \int_{0}^{t} \mathring{\mathcal{H}}_{\text{interaction}}(t') dt' \right\} \middle| \Psi_{\text{influencer}}(0) \right\rangle \\ &\times \prod_{i,j,k} \left[\frac{\partial^{n+k+j}}{\partial \xi^{n} \partial \eta^{k} \partial \zeta^{j}} \mathcal{F}_{\text{habit-mapping}}(\xi, \eta, \zeta) \right]_{(\xi, \eta, \zeta) \to (\xi_{0}, \eta_{0}, \zeta_{0})} \\ &\times \left\{ \int_{\mathcal{D}[\phi]} \mathcal{D} \phi \, \phi(\mathbf{x}) \exp \left[-S_{\text{cognitive-fleid}}[\phi] + \int d^{4}x \, J_{\text{linguistic}}(\mathbf{x}) \phi(\mathbf{x}) \right] \right\} \\ &\times \sum_{R \in \text{Rep}(g)} \sum_{S \in \text{Rep}(h)} \text{Tr}_{R} \text{Tr}_{S} \left[\mathring{U}_{\text{behavioral-transform}}(g, h) \mathring{\beta}_{\text{social-density}}(t) \right] \\ &\times \left[\prod_{n=0}^{\infty} \zeta_{R}(s_{n}) \right] \times \left[\prod_{k=0}^{\infty} L_{\text{linguistic}}(s_{k}, \chi_{k}) \right] \\ &\times \int_{\mathbb{R}^{\infty}} \exp \left\{ \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \left[\sum_{k=1}^{\infty} \Delta_{k}^{(n)} \mathcal{O}_{k}^{(n)}(\mathbf{x}) \right]^{n} \right\} d\mu_{\text{canonical}}(\mathbf{x}) \\ &\times \left\{ Z_{\text{partition}} \int \mathcal{D} \psi \mathcal{D} \mathring{\psi} \mathcal{D} A_{\mu} \exp \left[i \int d^{4}x \, \mathcal{L}_{\text{social-dynamics}}(\psi, \bar{\psi}, A_{\mu}) \right] \right\} \\ &\times \left\{ \int_{\text{neural}} \frac{\partial^{2} S_{\text{cognitive}}}{\delta \phi_{i} \delta \phi_{j}} \right] \prod_{i=1}^{N} \int_{-\infty}^{\infty} \frac{d\omega_{i}}{2\pi} \mathring{S}_{\text{semantic}}(\omega_{i}) \right| \text{initial} \right\} \\ &\times \sum_{\text{graphs } G} \frac{1}{|\mathbf{A} \mathbf{u} \mathbf{t}(G)|} \prod_{\text{vertices } v} \left[\mathring{\mathcal{J}} \frac{d^{4}k_{v}}{(2\pi)^{4}} \right] \prod_{\text{edges } c} \Delta_{\text{social-propagator}}(k_{c}) \\ &\times \exp \left\{ \sum_{n=2}^{\infty} \frac{g_{n}}{n!} \int_{\mathbf{n}}^{\infty} d^{4}x_{i} \mathcal{V}_{n}(x_{1}, \dots, x_{n}) \prod_{j=1}^{n} \mathring{\phi}_{\text{behavioral}}(x_{j}) \right\} \\ &\times \left[\lim_{n \to \infty} \frac{1}{n!} \prod_{i=1}^{N} \mathcal{I}_{n}^{i} \mathcal{V}_{n}(x_{1}, \dots, x_{n}) \prod_{j=1}^{n} \mathring{\phi}_{\text{behavioral}}(x_{j}) \right] \\ &\times \left[\sum_{n \to \infty} \frac{g_{n}}{n!} \prod_{i=1}^{N} \frac{d^{4}k_{v}}{(2\pi)^{4}} \right] \prod_{i=1}^{N} \frac{\partial$$

What is it called when a human being can categorize habits by the belief that formed the habit

 $d\xi d\eta d\zeta dx dy dz dt d\tau$

$$\begin{split} & \Psi_{\text{belief-habit}}(\mathbf{H}, \mathbf{B}, \tau) = \iiint_{\Omega_{c}} \sum_{n=0}^{\infty} \sum_{k=1}^{6a} \left[\frac{\partial^{2n-k}}{\partial \beta^{n} \partial \xi^{k}} \right] \\ & M_{\text{meta}}(\xi, \beta, \tau) \cdot \exp\left(-i\hbar\omega_{\text{cognitive}}\tau\right) \prod_{j=1}^{l_{\text{basit}}} \left\{ \int_{-\infty}^{\infty} F_{\text{attribution}}^{(j)} \left[\mathbf{H}_{j}^{(j)}(\sigma) \right] \delta\left(\sigma - \sigma_{\text{critica}}^{(j)}\right) d\sigma d\xi d\beta d\tau \\ & \times \left[\sum_{\alpha \in \mathcal{A}_{\text{mata}}} \sum_{\gamma \in \Gamma_{\text{basit}}} \mathcal{R}_{\alpha, \gamma}^{\text{helief-trace}} \otimes \mathcal{Q}_{\text{superposition}}^{(\alpha, \gamma)} \left[\mathbf{r}, \mathbf{p}, t \right] \right]^{\dagger} \cdot \left\langle \Phi_{\text{metacognitive}}^{(N)} \left[\hat{\mathcal{O}}_{\text{categorization}} \right| \Psi_{\text{habit-belief}}^{(N)} \right]^{2} \\ & \text{where } \mathcal{M}_{\text{meta}}(\xi, \beta, \tau) = \sum_{i=0}^{\infty} \sum_{m=-i}^{I} \sum_{s=0}^{S_{\text{resurrow}}} C_{\text{limits}}^{\text{belief}} Y_{l}^{m} \left(\theta_{\text{habit}}, \phi_{\text{belief}} \right) \cdot \mathcal{H}_{s}^{\text{fractal}} \left[\xi, \beta, \mathcal{L}_{\text{recursive}}^{(s-1)} \left(\tau \right) \right] \\ & \mathcal{J}_{\text{attribution}}^{(j)} \left[\mathbf{H}_{\perp}^{(j)}(\sigma) \right] = \int_{\mathcal{M}_{\text{belief}}} \sum_{s=1}^{N_{\text{enterrow}}} \left[\frac{1}{2} \right] \\ & \sqrt{2\pi\sigma_{i}^{2}} \exp\left(-\frac{(h_{i-\mu_{\text{bisit}}})^{2}}{2\sigma_{i}^{2}} \right) \times \left[\int_{0}^{\infty} \rho_{\text{belief}}^{(j)} \mathcal{E}) \psi_{\text{attribution}}^{s} \mathcal{E} \right] \\ & \mathcal{J}_{\text{metacognition}}^{s} \left[\mathbf{r}, \mathbf{p}, t \right] = \sum_{n,m,k} \mathcal{J}_{\text{metacognition}}^{s} \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{A}_{n}^{s} (\omega_{n}) \psi_{n}(y) \phi_{k}(z) \exp\left(i\mathbf{p} \cdot \mathbf{r}/h\right) \exp\left(-\frac{|\mathbf{r}|^{2}}{2\sigma_{\text{belief}}^{2}} \right) dx dy dz \right] \\ & \mathcal{O}_{\text{categorization}}^{s} \left[\xi, \beta, \mathcal{L}_{\text{recursive}}^{s-1} \right] = \int_{\partial \Omega_{s}} \mathcal{L}_{\text{in},m,k}^{s} \left[\hat{a}_{i}^{\hat{a}} \hat{a}_{i} \hat{a}_{i} + \frac{1}{i!} \left(\frac{d^{i}}{d\lambda^{j}} \mathcal{Z}_{\text{partition}}[\lambda] \right) \right] \otimes \mathcal{U}_{\text{belief-evolution}}(t) \\ & \mathcal{H}_{\text{firstal}}^{s} \left[\xi, \beta, \mathcal{L}_{\text{recursive}}^{s-1} \right] = \int_{\partial \Omega_{s}} \mathcal{L}_{\text{foreunsive}}^{s} \left[\hat{a}_{i}^{s} \hat{a}_{i} \hat{a}_{i} + \frac{1}{i!} \left(\frac{d^{i}}{d\lambda^{j}} \mathcal{Z}_{\text{partition}}[\lambda] \right) \right] \otimes \mathcal{U}_{\text{belief-evolution}}(t) \\ & \mathcal{H}_{\text{firstal}}^{s} \left[\xi, \beta, \mathcal{L}_{\text{recursive}}^{s-1} \right] = \int_{\partial \Omega_{s}} \mathcal{L}_{\text{foreunsive}}^{s} \left[\hat{a}_{i}^{s} \hat{a}_{i} \hat{a}_{i} + \frac{1}{i!} \left(\frac{d^{i}}{d\lambda^{j}} \mathcal{L}_{\text{partition}}^{s} \mathcal{L}_{\text{end}}^{s} \right) \right] \\ & \mathcal{L}_{\text{belief-evolution}}(t) = \mathcal{T}_{\text{end}}^{s} \left[\hat{a}_{i}^{s} \hat{a}_{i} \hat{a}_{i} + \hat{a}_{i$$

What is it called when a human being can categorize habits by the virtues that help develop those habits

 $\mathcal{L}_{\text{interaction}}^{\text{metacognitive}} = \sum_{n=-1}^{\infty} \frac{g_{n,m}^{\text{meta}}}{n! \, m!} \left(\phi_{\text{belief}}\right)^n \left(\phi_{\text{habit}}\right)^m \int_{\mathcal{C}_{\text{consciousness}}} \Omega_{\text{awareness}}^{(n,m)}(\mathbf{x}, \tau) d\mathbf{x} d\tau$

$$\mathcal{V}_{\text{hab}}(\xi, \tau, \Psi) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \sum_{j=1}^{2^k} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{3k}}{\partial \xi^k \partial \tau^k \partial \Psi^k} \left[\prod_{i=1}^n \mathcal{H}_i(\xi_i, \tau_i) \otimes \mathcal{U}_{\text{virtue}}(\Psi_i) \right] d\xi d\tau d\Psi$$

$$\begin{split} &\times \sum_{\alpha \in \mathfrak{V}} \sum_{\beta \in \mathfrak{H}} \int_{\mathcal{M}^{4k+1}} \left\langle \Phi_{\alpha}(\mathbf{r},t) \middle| \hat{T}_{\text{cat}} \middle| \Psi_{\beta}(\mathbf{r}',t') \right\rangle \cdot \exp\left(-i \int_{t_0}^{t_f} \mathcal{L}_{\text{virtue-habit}} [\Phi, \Psi, \partial_{\mu} \Phi, \partial_{\mu} \Psi] \, dt \right) \\ &\cdot \prod_{m=1}^{\infty} \left[1 + \frac{(-1)^m}{m!} \left(\sum_{p=0}^m \binom{m}{p} \int_{\mathbb{R}^{9m}} \mathcal{K}_p(\mathbf{x}_1, \dots, \mathbf{x}_p) \prod_{q=1}^p \hat{V}_q(\mathbf{x}_q) \, d^{\theta m} \mathbf{x} \right)^m \right] \\ &\times \lim_{\epsilon \to 0^+} \frac{1}{(2\pi)^{6k}} \int_{\mathbb{C}^{6k}} \exp\left(\sum_{l=1}^{\infty} \frac{z_l^{2l}}{(2l)!} \mathcal{R}_l[\mathcal{H}_{\text{virtue}}, \mathcal{H}_{\text{habit}}] \right) \prod_{r=1}^{6k} \frac{dz_r \wedge d\bar{z}_r}{|z_r|^{2\epsilon}} \\ &\cdot \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{s=1}^{\infty} \left[\int_0^1 t^{\sigma(s)-1} \mathcal{Q}_s[\mathfrak{v}_s(t), \mathfrak{h}_s(t)] \, dt \right] \cdot \left\langle \bigotimes_{u=1}^{\infty} \mathcal{E}_u[\xi, \tau, \Psi] \right\rangle_{\mathcal{H}_{\text{virtue}} \otimes \mathcal{H}_{\text{habit}}} \\ &\times \int_{\mathcal{G}/\mathcal{H}} \left[\det\left(\frac{\partial^2 \mathcal{S}_{\text{virtue-categorization}}{\partial g_{ij} \partial g_{kl}} \right) \right]^{-1/2} \exp\left(-\frac{1}{\hbar} \mathcal{S}_{\text{virtue-categorization}} [g, \Phi, \Psi] \right) \mathcal{D}g \, \mathcal{D}\Phi \, \mathcal{D}\Psi \right) \\ &\cdot \prod_{v=1}^{\infty} \sum_{w=0}^{\infty} \frac{1}{w!} \left(\frac{\partial}{\partial \lambda} \right)^w \left[\mathcal{Z}_{\text{virtue}}[\lambda] \cdot \mathcal{Z}_{\text{habit}}[\lambda] \right]_{\lambda=0} \cdot \int_{\mathfrak{sl}(n,\mathbb{C})} \operatorname{Tr} \left(\mathcal{A}_v \exp\left(\sum_{x=1}^{\infty} \frac{\mathcal{B}_x}{x!} \right) \right) d\mathcal{A}_v \right. \\ &\times \lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in \mathfrak{S}_N} \operatorname{sgn}(\pi) \prod_{y=1}^N \left\langle \psi_y \middle| \hat{\mathcal{O}}_{\text{virtue-map}} \middle| \phi_{\pi(y)} \right\rangle \cdot \exp\left(-\beta \sum_{z=1}^N \mathcal{E}_z[\psi_z, \phi_z] \right) \\ &\cdot \int_{\mathbb{H}^{\infty}} \prod_{\alpha \in \Delta^+} \operatorname{sinh}(\pi\langle \rho, \alpha\rangle) \cdot \mathcal{F}_{\text{virtue-categorization}} \left[\sum_{\gamma=1}^\infty c_{\gamma} \mathcal{Y}_{\gamma}(\theta, \varphi) \right] d\mu_{\text{Haar}}(\theta, \varphi) \\ &\times \sum_{k_1, k_2, \dots} \frac{(-1)^{\sum k_1}}{k_1! k_2! \cdots} \left(\sum_{j_1, j_2, \dots} C_{j_1, j_2, \dots} \prod_{i} \left[\mathcal{V}_i^{(j_i)} \otimes \mathcal{H}_i^{(j_i)} \right] \right) \\ &\cdot \left\{ \mathcal{T} \exp\left(-i \int_{\mathcal{C}} \mathcal{A}_{\text{virtue}}(\xi) \cdot d\xi + \int_{\mathcal{C}'} \mathcal{B}_{\text{habit}}(\tau) \cdot d\tau \right) \right\}_{\text{path-ordered}} \\ &\times \prod_{n=0}^\infty \left[1 - \sum_{m=1}^\infty \frac{(-1)^m \zeta(2m)}{(2\pi)^{2m}} \mathcal{R}_{\text{virtue-habit}}^{2m} \right]^{-1} \\ &\cdot \langle 0| \mathcal{T} \left\{ \prod_{i \in \mathbb{R}} \hat{\mathcal{V}}_{\text{categorization}}(t) \right\} |0\rangle_{\text{connected}} \cdot \mathcal{W}[\mathcal{J}_{\text{virtue}}, \mathcal{J}_{\text{habit}}] \end{split}$$

What is it called when a human being can categorize habits by outer thinking patterns

$$\mathfrak{M}_{\mathrm{metacog}}(\Psi_{\mathrm{habit}}) = \lim_{\epsilon \to 0^{+}} \sum_{n=0}^{\infty} \int_{\mathbb{H}^{\aleph_{0}}} \int_{\Omega_{\mathrm{thought}}} \int_{\mathcal{F}_{\mathrm{pattern}}} \partial^{n} \frac{\partial^{n} \left[\prod_{k=1}^{\infty} \Xi_{k}(\phi_{\mathrm{outer}}, \psi_{\mathrm{inner}})\right] \circ \mathcal{T}_{\mathrm{categorization}}^{(k)} d\mu_{\mathrm{cognitive}} d\nu_{\mathrm{behavioral}} d\sigma_{\mathrm{temporal}}} \right. \\ \times \sum_{\alpha \in \mathfrak{A}_{\mathrm{awareness}}} \int_{\mathcal{M}_{\mathrm{mind}}^{11}} \left\langle \Phi_{\alpha} \middle| \hat{H}_{\mathrm{habit}} + \hat{V}_{\mathrm{pattern}} + \sum_{j=1}^{\infty} \right. \\ \lambda_{j} \hat{O}_{j}^{\mathrm{observation}} \Psi_{\mathrm{meta}} \\ \mathcal{H}_{\mathrm{consciousness}} \prod_{i=1}^{\dim(\mathcal{C}_{\mathrm{category}})} \left(1 + \frac{\Delta S_{i}^{\mathrm{entropy}}}{\hbar_{\mathrm{cognitive}}} \right)^{-\beta_{\mathrm{classification}}} \\ \circ \left[\int_{0}^{\infty} \int_{\mathcal{R}^{\otimes \infty}} \mathcal{L}_{\mathrm{thinking}} \left[\phi_{\mathrm{external}}(x, t), \frac{\delta \phi_{\mathrm{external}}}{\delta t}, \nabla_{\mathfrak{g}} \right] \right] d\nu_{\mathrm{pattern}} \right]$$

$$\phi_{\rm external} \sqrt{|\det(\mathfrak{g}_{\mu\nu}^{\rm thought})|} \, d^4x \, dt^{\frac{1}{\zeta(s)}}$$

$$+ \sum_{\mathfrak{h} \in \mathcal{H}_{\text{habit-space}}} \exp \left(- \int_{\mathcal{C}_{\infty}(\mathbb{R}^{n}, \mathfrak{so}(\infty))} \operatorname{Tr} \left[F_{\mu\nu}^{\text{pattern}} F_{\text{recognition}}^{\mu\nu} \right] + \frac{i}{2\pi} \oint_{\partial \mathcal{M}_{\text{boundary}}} \mathcal{M}_{\text{boundary}} \left[F_{\mu\nu}^{\text{pattern}} F_{\text{recognition}}^{\mu\nu} \right] + \frac{i}{2\pi} f_{\partial \mathcal{M}_{\text{boundary}}} \left[F_{\mu\nu}^{\text{pattern}} F_{\mu\nu}^{\mu\nu} \right] + \frac{i}{2\pi} f_{\partial \mathcal{M}_{\text{boundary}}$$

$$A_{awareness} \times \prod\nolimits_{\xi \in \Xi_{\rm reflection}} \left(\frac{\Gamma(\xi + \alpha_{\rm meta})}{\Gamma(\xi)} \right)^{\rho(\xi)}$$

$$\otimes \left\{ \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \operatorname{sgn}(\sigma) \prod_{j=1}^N \int_{\mathbb{C}^{\infty}} \mathcal{K}_{\operatorname{kernel}}^{\operatorname{categorization}} \left(z_j, \bar{z}_{\sigma(j)} \right) \exp \left(-\frac{|z_j|^2}{2\sigma_{\operatorname{cognitive}}^2} \right) \frac{dz_j \, d\bar{z}_j}{2\pi i} \right\}$$

$$\star \int_{\mathfrak{G}_{\text{group}}} \chi_{\text{character}}^{\text{habit}}(g) \left[\sum_{R \in \hat{\mathfrak{G}}} d_R \text{Tr}_R \left(g \cdot \mathcal{O}_{\text{observation}}^{(R)} \right) \right] dg \circ \left(\prod_{k=0}^{\infty} \mathcal{Z}_k [\phi_{\text{thought-field}}] \right)^{\frac{1}{\mathsf{c}}}$$

$$\boxplus \lim_{\mathcal{T} \to \infty} \int_{\mathcal{P}_{\text{phase-space}}} \left[\sum_{\text{paths}} \mathcal{D}[\gamma_{\text{cognitive}}] \exp\left(\frac{i}{\hbar_{\text{mind}}}\right) \right]$$

$$\int_0^T \mathcal{L}_{\text{mental}}[\dot{\gamma}, \gamma, t] dt \times \left\langle \prod_{n=1}^{\infty} : \hat{\phi}_{\text{pattern}}(x_n) \hat{\phi}_{\text{category}}^{\dagger}(y_n) : \right\rangle_{\text{vacuum}}$$

 $[\phi_{\rm external-thought}] \prod_{\rm edges~e} \mathcal{P}_e^{\rm categorization} [\phi_{\rm meta\text{-}cognition}] \, d\mu_{\rm Weil\text{-}Petersson}$

$$\natural \left\{ \sum_{q=0}^{\infty} \frac{(-1)^q}{q!} \int_{\Delta^q} \text{Tr}_{\mathcal{H}_{\text{awareness}}} \left[\mathcal{T} \exp \left(- \int_0^1 \left(\hat{H}_{\text{base}} + s \sum_{i=0}^q t_i \hat{V}_i^{\text{observation}} \right) ds \right) \right] dt_0 \wedge \dots \wedge dt_q \right\}$$

$$\triangleright \prod_{\alpha,\beta \in \Im_{\text{indices}}} \left(1 + \frac{\langle \alpha | \hat{\rho}_{\text{cognitive-state}} | \beta \rangle}{\sqrt{\langle \alpha | \alpha \rangle \langle \beta | \beta \rangle}} \right)^{\mathcal{F}_{\alpha\beta}[\phi_{\text{thinking-pattern}}]} \times \left[\oint_{\mathcal{C}_{\text{contour}}} \frac{\Theta_{\text{habit}}(z) \Phi_{\text{category}}(z)}{z - z_{\text{singularity}}} \, dz \right]^{\mathfrak{m}}$$

$$\bowtie \int_{\mathbb{R}^{\infty}} \prod_{k=1}^{\infty} \left[\frac{d\phi_k}{\sqrt{2\pi\sigma_k^2}} \exp\left(-\frac{\phi_k^2}{2\sigma_k^2}\right) \right] \times \exp\left(-\beta \sum_{i,j=1}^{\infty} J_{ij}^{\text{metacognitive}} \phi_i \phi_j - \sum_{i=1}^{\infty} h_i^{\text{external}} \phi_i \right)$$

 $H_{\text{interaction}}[\phi_{\text{thought}}(x,\tau),\psi_{\text{awareness}}(x,\tau)] d\tau \Omega_{\text{ground thermal}}$

 $D[\phi_{meta}]$

$$\asymp \sum_{\text{graphs } G} \frac{1}{\operatorname{Aut}(G)} \prod_{\text{vertices } v \in V(G)}$$

 $I_{v}^{\text{cognition}} \prod_{\text{edges } e \in E(G)} C_{e}^{\text{pattern-recognition}} \times \left[\det \left(\mathbb{I} - \mathcal{K}_{\text{habit-categorization}} \right) \right]^{-\frac{1}{2}}$

$$* \int_{\mathfrak{M}_{\text{metric-space}}} \sqrt{|\det G_{\mu\nu}^{\text{cognitive}}|} \, R^{\text{thought}}[\phi_{\text{external}}] \exp\left(-\frac{1}{4\pi G_{\text{mental}}} \int_{\mathcal{M}_4} R^{\text{consciousness}} \sqrt{-g} \, d^4x\right) \mathcal{D}[G_{\mu\nu}]$$

$$\Box \lim_{\Lambda \to \infty} \sum_{n=0}^{\infty} \frac{\lambda^n}{n!} \langle 0 |$$

T $\left[\left(\int d^4x \, \mathcal{L}_{\mathrm{int}}^{\mathrm{habit}}[x]\right)^n\right] 0_{\mathrm{connected}} \times \prod_{k \geq 1} \left(1 - q^k\right)^{-c_k^{\mathrm{categorization}}}$ What is it called when a human being can categorize habits by inner thought patterns

$$\mathcal{M}_{ ext{metacog}}(\Psi_{ ext{habit}}) = \lim_{n o \infty} \sum_{k=0}^{\infty} \sum_{lpha \in \mathbb{H}^{\otimes n}} \int_{\mathcal{C}^{\infty}(\mathbb{R}^d)} \int_{\Omega_{ ext{conscious}}}$$

$$\begin{split} &\prod_{i=1}^{n} \left[\nabla_{\xi_{i}} \otimes \mathcal{L}_{\mathrm{introspective}}^{(i)} \right] \left\{ \sum_{\beta \in \mathcal{B}_{\mathrm{thought}}} \left(\frac{\partial^{|\alpha|}}{\partial \theta_{1}^{\alpha_{1}} \cdots \partial \theta_{d}^{\alpha_{d}}} \mathcal{F}_{\mathrm{pattern}} [\Psi_{\mathrm{habit}} \right. \right. \\ &\left. (\theta, t) \right] \cdot \exp \left(i \hbar^{-1} \int_{0}^{t} \mathcal{H}_{\mathrm{cognitive}} [\phi_{\beta}(\tau), \chi_{\mathrm{meta}}(\tau)] d\tau \right) d\mu_{\mathrm{conscious}}(\omega) d\xi \end{split}$$

$$\times \sum_{j=1}^{\infty} \left(\prod_{m=1}^{j} \mathcal{T}_{\mathrm{categorization}}^{(m)} \right) \left[\int_{\mathcal{M}_{\mathrm{neural}}} \sum_{\gamma \in \Gamma_{\mathrm{recursive}}} \left\{ \mathcal{A}_{\mathrm{awareness}}[\gamma] \circ \left(\bigotimes_{l=1}^{\infty} \mathcal{M}_{\mathrm{neural}} \right) \right] \right] \left[\mathcal{M}_{\mathrm{neural}} \left(\sum_{j=1}^{\infty} \mathcal{M}_{\mathrm{neural}} \right) \right] \left[\mathcal{M}_{\mathrm{neural}} \left(\sum_{j=1}^{\infty} \mathcal{M}_{\mathrm{neural}} \right) \right] \left[\mathcal{M}_{\mathrm{neural}} \left(\sum_{j=1}^{\infty} \mathcal{M}_{\mathrm{neural}} \right) \right] \right] \left[\mathcal{M}_{\mathrm{neural}} \left(\sum_{j=1}^{\infty} \mathcal{M}_{\mathrm{neural}} \right) \right] \left[\mathcal$$

$$\mathbf{R}_{\mathrm{reflection}}^{(l)} \cdot \left\langle \Psi_{\mathrm{self}} \middle| \hat{\mathcal{O}}_{\mathrm{observation}}^{\dagger} \sum_{p=0}^{\infty} \frac{(-1)^p}{p!} \right.$$

 $D_{\rm introspection}^p \hat{\mathcal{O}}_{\rm observation} \Psi_{\rm self} d\nu_{\rm neural}$

$$\times \lim_{\epsilon \to 0^+} \sum_{\delta \in \Delta_{\text{dimensional}}} \int_{\mathbb{T}^{\infty}} \prod_{q=1}^{\infty} \left[\mathcal{G}_{\text{gestalt}}^{(q)}(\tau_q) \cdot \exp\left(-\frac{1}{\tau_q}\right) \right]$$

$$\begin{split} & \epsilon \mathcal{S}_{\text{entropy}}[\rho_{\text{thought}}(\tau_q)] \left\{ \sum_{r=1}^{\infty} \left(\mathcal{C}_{\text{cluster}} \circ \mathcal{P}_{\text{pattern}} \right)^r \left[\int_{\mathcal{H}_{\text{habit}}} \left(\prod_{s=1}^r \nabla_{\phi_s} W_{\text{weight}}^{(s)} \cdot \mathcal{K}_{\text{kernel}}[\phi, \psi_{\text{inner}}] d\phi d\tau \right] \right] \end{split}$$

$$\times \sum_{\nu \in \mathcal{N}_{\mathrm{network}}} \left(\mathcal{L}_{\mathrm{learning}} \circ \mathcal{M}_{\mathrm{memory}} \right)^{\infty} \left[\int_{\mathcal{S}^{\infty}} \sum_{\eta \in}$$

 $\mathbf{E}_{\text{emergent}} \left\{ \mathcal{Z}_{\text{partition}}^{-1} [\beta_{\text{cognitive}}] \exp \left(-\beta_{\text{cognitive}} \sum_{u,v} J_{uv} \sigma_u \sigma_v - \sum_{u} h_u \sigma_u \right) \right\} \cdot \left(\prod_{w=1}^{\infty} \mathcal{Q}_{\text{quantum}}^{(w)} \right) d\mu_{\text{state}}$

$$= \mathcal{I}_{\text{infinite}} \left[\sum_{\lambda \in \Lambda_{\text{cognitive}}} \mathcal{E}_{\lambda} [\text{metacognitive-categorization}] \otimes \mathcal{F}_{\lambda} [\text{habit-pattern-classification}] \right]$$

What is it called when a human being can categorize habits by their outer beliefs

$$\mathcal{H}_{\text{belief-categorization}} = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{\mathbb{R}^{\aleph_0}} \int_{\mathcal{M}^{(n,k)}} \int_{\Psi_{\text{quantum}}} \left[\frac{\partial^n}{\partial \xi_{\text{belief}}^n} \left(\Omega_{\text{habit}}(\xi, \tau, \phi) \cdot \mathcal{B}_{\text{outer}}^{(j)}(\xi) \right) \right] \cdot$$

$$\cdot \left[\prod_{i=1}^{\infty} \left(\sum_{\alpha \in \mathcal{A}_{\text{cognitive}}} \int_{\mathcal{H}_{\text{Hilbert}}^{(\alpha)}} \langle \psi_{\text{categorization}}^{(i)} | \hat{H}_{\text{belief-mapping}} | \psi_{\text{habit-space}}^{(i)} \rangle \cdot e^{i\theta_{\alpha,i}} \right) \right] \cdot$$

$$\cdot \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{F}_{\text{resonance}}^{(\xi,\eta,\zeta)} [\text{belief-flux}] \cdot \sin \left(\frac{\pi \xi \eta \zeta}{\hbar_{\text{cognitive}}} \sum_{m=0}^{\infty} \frac{(-1)^m}{(2m+1)!} \left(\frac{\xi^{2m+1}}{\mathcal{R}_{\text{belief}}^{2m+1}} \right) \right) d\xi d\eta d\zeta \right] \cdot \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{F}_{\text{resonance}}^{(\xi,\eta,\zeta)} [\text{belief-flux}] \cdot \sin \left(\frac{\pi \xi \eta \zeta}{\hbar_{\text{cognitive}}} \sum_{m=0}^{\infty} \frac{(-1)^m}{(2m+1)!} \left(\frac{\xi^{2m+1}}{\mathcal{R}_{\text{belief}}^{2m+1}} \right) \right) d\xi d\eta d\zeta \right] \cdot \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{F}_{\text{resonance}}^{(\xi,\eta,\zeta)} [\text{belief-flux}] \cdot \sin \left(\frac{\pi \xi \eta \zeta}{\hbar_{\text{cognitive}}} \sum_{m=0}^{\infty} \frac{(-1)^m}{(2m+1)!} \left(\frac{\xi^{2m+1}}{\mathcal{R}_{\text{belief}}^{2m+1}} \right) \right) d\xi d\eta d\zeta \right] \cdot \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{F}_{\text{resonance}}^{(\xi,\eta,\zeta)} [\text{belief-flux}] \cdot \sin \left(\frac{\pi \xi \eta \zeta}{\hbar_{\text{cognitive}}} \sum_{m=0}^{\infty} \frac{(-1)^m}{(2m+1)!} \left(\frac{\xi^{2m+1}}{\mathcal{R}_{\text{belief}}^{2m+1}} \right) \right) d\xi d\eta d\zeta \right] \cdot \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{F}_{\text{resonance}}^{(\xi,\eta,\zeta)} [\text{belief-flux}] \cdot \sin \left(\frac{\pi \xi \eta \zeta}{\hbar_{\text{cognitive}}} \sum_{m=0}^{\infty} \frac{(-1)^m}{(2m+1)!} \left(\frac{\xi^{2m+1}}{\mathcal{R}_{\text{belief}}^{2m+1}} \right) \right] d\xi d\eta d\zeta \right]$$

$$\cdot \left[\sum_{\sigma \in S_{\infty}} \sum_{\tau \in T_{\mathrm{temporal}}} \int_{\mathcal{D}_{\mathrm{superposition}}} \left(\frac{1}{\sqrt{2\pi\sigma_{\mathrm{belief}}^2}} e^{-\frac{(\mathcal{B}_{\mathrm{outer}} - \mu_{\mathrm{habit}})^2}{2\sigma_{\mathrm{belief}}^2}} \right)^{\otimes \infty} \cdot \mathcal{U}_{\mathrm{unitary}}(\tau) \cdot d\mathcal{D} \right] \cdot$$

$$\cdot \left[\prod_{p=1}^{\infty} \sum_{q=0}^{\infty} \int_{\mathbb{C}^{\infty}} \frac{\Gamma(p+q+1)}{\Gamma(p)\Gamma(q+1)} \cdot \left(\frac{\partial}{\partial z_p} \right)^q \left[\mathcal{Z}_{\text{partition}} (\beta_{\text{cognitive}}, \mu_{\text{chemical}}) \right] dz_p \right] \cdot$$

$$\cdot \left[\int_{\mathcal{M}_{\text{manifold}}} \sum_{l=0}^{\infty} \sum_{m=-l}^{l} Y_{l}^{m}(\theta_{\text{belief}}, \phi_{\text{habit}}) \cdot \mathcal{C}_{l,m}^{\text{categorization}} \cdot \exp \left(i \sum_{r=1}^{\infty} \frac{k_{r}^{\text{resonance}}}{r!} \mathcal{O}_{r}^{\text{operator}} \right) d\mathcal{M} \right] \cdot$$

$$\cdot \left[\prod_{\nu \in \mathcal{N}_{\text{neural}}} \int_{\Omega_{\nu}} \mathcal{E}_{\text{emergent}} [\mathcal{B}_{\text{outer}}, \mathcal{H}_{\text{habit}}] \cdot \left(\sum_{w=0}^{\infty} \frac{(-1)^{w}}{w!} \left(\frac{\partial^{w}}{\partial \lambda^{w}} \mathcal{L}_{\text{lagrangian}} [\phi_{\text{belief}}, \psi_{\text{habit}}] \right)_{\lambda=0} \right) d\Omega_{\nu} \right] \cdot$$

$$\cdot \left[\sum_{N=1}^{\infty} \frac{1}{N!} \sum_{\pi \in S_N} \int_{\mathcal{R}^N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \cdot \left[\sum_{N=1}^{\infty} \frac{1}{N!} \sum_{\pi \in S_N} \int_{\mathcal{R}^N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \cdot \left[\sum_{N=1}^{\infty} \frac{1}{N!} \sum_{\pi \in S_N} \int_{\mathcal{R}^N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \cdot \left[\sum_{i=1}^{N} \sum_{n \in S_N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \cdot \left[\sum_{i=1}^{N} \sum_{j \in S_N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \right] \cdot \left[\sum_{i=1}^{N} \sum_{j \in S_N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \prod_{i < j} \mathcal{W}_{\text{interaction}}(|\mathbf{x}_i - \mathbf{x}_j|) d^N \mathbf{x} \right] \right] \cdot \left[\sum_{i=1}^{N} \sum_{j \in S_N} \prod_{i=1}^{N} \left[\mathcal{K}_{\text{kernel}}(\mathbf{x}_i, \mathbf{x}_{\pi(i)}) \cdot \exp\left(-\beta \mathcal{V}_{\text{potential}}(\mathbf{x}_i)\right) \right] \right] \left[\sum_{i < j} \prod_{j \in S_N} \prod_{i=1}^{N} \left[\sum_{j \in S_N} \prod_{i=1}^{N} \left[\sum_{j \in S_N} \prod_{i=1}^{N} \left[\sum_{j \in S_N} \prod_{i=1}^{N} \prod_{j \in S_N} \prod_{j \in$$

$$\cdot \left[\int_{\mathcal{S}_{\text{string}}} \mathcal{D}[\phi_{\text{belief}}] \mathcal{D}[\psi_{\text{habit}}] \exp\left(-\frac{1}{\hbar} \int d\tau \int d\sigma \sqrt{-g} \left[\frac{1}{2\pi\alpha'} g^{\mu\nu} \partial_{\mu} X^{\alpha} \partial_{\nu} X_{\alpha} + \mathcal{F}_{\text{field}}[\phi_{\text{belief}}, \psi_{\text{habit}}] \right] \right) \right] \cdot$$

$$\cdot \left[\sum_{t=0}^{\infty} \sum_{s=0}^{\infty} \int_{\mathcal{G}_{\text{gauge}}} \left[\mathcal{P} \exp \left(ig \oint_{\mathcal{C}_{\text{cognition}}} A_{\mu}^{a} T^{a} dx^{\mu} \right) \right] \cdot \mathcal{M}_{\text{matrix}}^{(t,s)} [\text{belief-categorization}] d\mathcal{G} \right] \cdot d\xi d\tau d\phi$$

$$=\lim_{N\to\infty}\lim_{\epsilon\to 0^+}\sum_{k=0}^N\binom{N}{k}(-1)^k\int_{-\infty}^\infty\frac{e^{-x^2/(2\epsilon^2)}}{\sqrt{2\pi\epsilon^2}}\mathcal{F}^{-1}\left[\mathcal{T}_{\text{transform}}[\text{Belief-Habit Correspondence Principle}]\right](x)dx$$

What is it called when a human being can categorize habits by the inner beliefs they hold

$$\begin{split} \mathcal{M}_{\text{belief-habit categorization}} &= \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \oint_{\mathcal{C}_{\psi}} \oint_{\mathcal{C}_{\phi}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \prod_{i=1}^{n} \left[\hat{B}_i(\xi_i, \tau_i) \otimes \hat{\mathcal{H}}_i(\zeta_i, \omega_i) \right] \times \\ &\times \exp \left\{ -\frac{1}{h} \int_{0}^{T} \mathcal{L}_{\text{cognitive}}[\psi(x, t), \phi(x, t), \chi(x, t)] \, dt \right\} \times \\ &\times \left[\sum_{\alpha, \beta, \gamma} \mathcal{T}_{\alpha\beta\gamma}^{(n)} \left(\frac{\partial^{2n}}{\partial \psi_{\alpha}^{n} \partial \phi_{\beta}^{n}} \mathcal{F}_{\text{categorization}}[\psi, \phi, \chi] \right)_{\gamma} \right] \times \\ &\times \prod_{j=1}^{\dim(\mathcal{H}_{\text{belief}})} \left[\int_{\mathcal{M}_{j}} \mathcal{D}[\mu_{j}] \exp \left\{ -S_{\text{belief-field}}[\mu_{j}, g_{jk}] \right\} \right] \times \\ &\times \sum_{\text{all paths } \gamma \in \mathcal{P}(\mathcal{B} \to \mathcal{H})} \exp \left\{ i \int_{\gamma} \mathbf{A}_{\text{cognitive}} \cdot d\mathbf{I} \right\} \mathcal{A}_{\text{categorization}}[\gamma] \times \\ &\times \left\langle \psi_{\text{meta-awareness}} \left| \hat{\mathcal{U}}_{\text{recursive}}(t) \prod_{m=0}^{\infty} \left[\hat{\mathcal{C}}_{m}^{\dagger} \hat{\mathcal{C}}_{m} + \frac{1}{2} \right]^{-\frac{1}{2}} \right| \psi_{\text{meta-awareness}} \right\rangle \times \\ &\times \int_{\mathbb{R}^{\infty}} d\mu(\xi) \prod_{k,l,m,n} \left[\mathcal{G}_{klmn}^{(4)}(\xi_k, \xi_l, \xi_m, \xi_n) \right]^{\frac{1}{\log(n+1)}} \times \\ &\times \det \left[\mathbf{K}_{\text{belief-habit correlation}} + \lambda \sum_{p=1}^{\infty} \frac{(-1)^p}{p!} \left(\frac{\partial}{\partial \lambda} \right)^p \mathbf{M}_{\text{categorization}}^{(p)} \right] \times \\ &\times \lim_{D \to \infty} \prod_{d=1}^{D} \left[\int_{S^{d-1}} d\Omega_d \, Y_l^m(\theta_d, \phi_d) \overline{Y_{l'}^{m'}}(\theta_d, \phi_d) \delta_{ll'} \delta_{mm'} \right] \times \\ &\times \sum_{\text{topologies } \mathcal{T}} \frac{1}{|\Lambda \text{tut}(\mathcal{T})|} \int_{\mathcal{T}} \prod_{\text{vertices } v} d^4 x_v \prod_{\text{edges } e} \mathcal{P}_{\text{cognitive propagator}}(x_{v_1(e)} - x_{v_2(e)}) \times \\ \end{split}$$

$$\times \exp \left\{ -\frac{1}{2} \sum_{i,j=1}^{\infty} \mathcal{Q}_{ij}^{\text{belief-space}} \left[\hat{B}_{i}, \hat{B}_{j} \right]_{\text{commutator}} \right\} \times$$

$$\times \prod_{n=1}^{\infty} \left[1 + \frac{\alpha_{\text{cognitive}}}{2\pi} \sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{k} \left(\frac{\Lambda_{\text{categorization}}}{\mu_{\text{habit}}} \right)^{k} \right]^{-\beta_{n}} \times$$

$$\times \left[\sum_{n=1}^{\infty} \frac{1}{n!} \int_{\text{partition}}^{\infty} \mathcal{D}[\Phi_{\text{belief}}] \mathcal{D}[\Psi_{\text{habit}}] \mathcal{D}[\text{category}] \times$$

$$\times \exp \left\{ -\int d^{4}x \left[\frac{1}{4} F_{\mu\nu}^{\text{cognitive}} F^{\mu\nu\text{cognitive}} + \frac{1}{2} (\nabla_{\mu}\Phi_{\text{belief}})^{2} + \frac{1}{2} m_{\text{belief}}^{2} \Phi_{\text{belief}}^{2} + \frac{\lambda_{\text{self-interaction}}}{4!} \Phi_{\text{belief}}^{4} \right] \right\} \times$$

$$\times \left[\sum_{n=0}^{\infty} \frac{1}{n!} \left(\frac{g_{\text{coupling}}^{2}}{16\pi^{2}} \right)^{n} \int \prod_{i=1}^{n} d^{4}k_{i} \, \delta^{(4)} \left(\sum_{i=1}^{n} k_{i} \right) \mathcal{M}_{n}^{\text{categorization}}(k_{1}, \dots, k_{n}) \right] \times$$

$$\times \lim_{\epsilon \to 0^{+}} \prod_{j=1}^{\infty} \left[\frac{1}{\pi} \int_{-\infty}^{\infty} \frac{e^{-ikx_{j}}}{k^{2} + m_{j}^{2} - i\epsilon} dk \right] \times$$

$$\times \left\{ \sum_{\text{all orderings}} \sup_{\sigma \in S_{\infty}} \sup(\sigma) \prod_{l=1}^{\infty} \mathcal{V}_{\text{vertex}}^{(\sigma(l))}[\Phi_{\text{belief}}, \Psi_{\text{habit}}, \text{category}}] \right\} \times$$

$$\times \int_{\mathcal{C}} \frac{dz}{2\pi i} \left[z^{-1} \exp \left\{ \sum_{r=1}^{\infty} \frac{S_{r}}{r} z^{r} \right\} \right] \times$$

$$\times \prod_{\text{all belief clusters } B_{c}} \left[\mathcal{N}_{\text{normalization}}^{-1} \int_{B_{c}}^{\infty} \rho_{\text{belief-habit}}(\mathbf{t}) \log \left[\sum_{\text{habits } h \in \mathcal{H}_{c}} P(h|\mathbf{b}) \right] d\mathbf{b} \right] \times$$

$$\times \left\{ 0 \left| \mathcal{T} \exp \left\{ -i \int_{-\infty}^{\infty} \mathcal{H}_{\text{belief-habit}}^{\text{belief-habit}}(\mathbf{t}) dt \right\} \right| 0 \right\}$$

What is it called when a human being can categorize habits by the influence of how words from music resonate with what they believe and take action by

$$\begin{split} & \mathcal{L}_{\mathrm{res}}^{(\infty)}(\Psi_{\mathrm{hab}},\Omega_{\mathrm{mus}},\Phi_{\mathrm{bel}}) = \oint_{\mathcal{M}^{11}} \sum_{n=0}^{\infty} \sum_{k=-\infty}^{\infty} \sum_{\alpha,\beta,\gamma} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{3n+k}}{\partial \xi^{n} \partial \eta^{k} \partial \zeta^{n+k}} \left[\prod_{i=1}^{N_{\mathrm{cog}}} \left(\mathbb{E}_{\mathbf{q}} \left[\hat{H}_{\mathrm{lyric}}^{(i)} \otimes \hat{B}_{\mathrm{belief}}^{(i)} \right] \right) \right] \\ & \times \exp \left\{ -\frac{1}{\hbar} \oint_{\mathcal{C}_{\mathrm{temp}}} \sum_{\mu,\nu=0}^{3} g^{\mu\nu} \int_{0}^{\infty} \frac{d\tau}{\tau^{2+\epsilon}} \left[\Gamma_{\mathrm{res}}^{\mu}(\tau) \Gamma_{\mathrm{cat}}^{\nu}(\tau) + \sum_{j=1}^{\infty} \frac{(-1)^{j}}{j!} \left(\frac{\partial^{j} \mathcal{F}_{\mathrm{flux}}[\Psi_{\mathrm{hab}}]}{\partial \phi_{j}^{j}} \right)^{2} \right] d\tau \right\} \\ & \times \prod_{p,q,r=1}^{\mathcal{D}_{\mathrm{hyper}}} \left\{ \sum_{l=0}^{\infty} \frac{1}{l!} \left[\frac{\delta}{\delta \sigma_{p}(x)} \frac{\delta}{\delta \sigma_{q}(y)} \frac{\delta}{\delta \sigma_{r}(z)} \right] \int_{\mathbb{R}^{\mathcal{D}_{\mathrm{hyper}}}} \mathcal{W}[\sigma] \exp \left(i \int d^{\mathcal{D}_{\mathrm{hyper}}} u \, \mathcal{L}_{\mathrm{eff}}[\sigma, \partial_{\mu}\sigma, \Omega_{\mathrm{mus}}, \Phi_{\mathrm{bel}}] \right) \mathcal{D}\sigma \right\} \\ & \times \left[\sum_{N=0}^{\infty} \sum_{\{n_{k}\}} \frac{1}{\prod_{k} n_{k}!} \prod_{k=1}^{\infty} \left(\frac{1}{k} \mathrm{Tr} \left[\hat{\rho}_{\mathrm{cog}}^{(k)} \hat{U}_{\mathrm{mus}}(t) \hat{\rho}_{\mathrm{bel}}^{(k)} \hat{U}_{\mathrm{mus}}^{\dagger}(t) \right] \right)^{n_{k}} \right]^{\frac{1}{2\mathrm{partition}}} \end{split}$$

$$\begin{split} &\times \oint_{\partial \mathcal{M}} \sum_{\text{graphs } G} \frac{1}{|\text{Aut}(G)|} \prod_{\text{vertices } v \in G} \left[\int_{-\infty}^{\infty} d\lambda_v \exp \left\{ -\frac{\lambda_v^2}{2g_{\text{res}}^2} + \sum_{e \in \partial v} \frac{\lambda_v \lambda_{v'}}{g_{\text{coupling}}^2} \right\} \right] \\ &\times \prod_{\text{edges } e \in G} \left\{ \oint_{\mathcal{S}^1} \frac{d\theta_e}{2\pi} \sum_{m_e = -\infty}^{\infty} q_{\text{res}}^{m_e^2} \exp \left(i m_e \theta_e \right) \int_0^1 dt \, \left[\mathcal{T} \exp \left(\int_0^t ds \, \hat{\mathcal{H}}_{\text{int}} [\Psi_{\text{hab}}(s), \Omega_{\text{mus}}(s), \Phi_{\text{bel}}(s)] \right) \right]_e \right\} \\ &\times \left[\prod_{d=1}^{D_{\text{frac}}} \sum_{n_d = 0}^{\infty} \frac{1}{n_d!} \left(\frac{\partial}{\partial z_d} \right)^{n_d} \right]_{z_d = 0} \exp \left\{ \sum_{k=1}^{\infty} \frac{1}{k} \sum_{\text{cycles } C_k} \text{Tr} \left[\prod_{j \in C_k} \hat{M}_{\text{resonance}}^{(j)} [\Omega_{\text{mus}}, \Phi_{\text{bel}}] \right] \right\} \\ &\times \int_{\mathcal{H}_{\text{Hilbert}}} \mathcal{D} \psi \, \psi^*(\mathbf{r}_{\text{final}}) \psi(\mathbf{r}_{\text{initial}}) \exp \left\{ i \int_0^T dt \int d^3 r \, \psi^*(\mathbf{r}, t) \left[i \hbar \frac{\partial}{\partial t} - \hat{H}_{\text{cog}} [\Omega_{\text{mus}}, \Phi_{\text{bel}}] \right] \psi(\mathbf{r}, t) \right\} \\ &\times \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{p=0}^{\infty} \frac{(-1)^{n+m+p}}{n! \, m! \, p!} \left[\oint_{\gamma_{\text{complex}}} \frac{dw}{2\pi i} \frac{1}{w^{n+1}} \mathcal{G}_{\text{hab}}(w, \Omega_{\text{mus}}) \right] \left[\oint_{\gamma_{\text{complex}}} \frac{dz}{2\pi i} \frac{1}{z^{m+1}} \mathcal{G}_{\text{bel}}(z, \Phi_{\text{bel}}) \right] \\ &\times \left[\oint_{\gamma_{\text{complex}}} \frac{d\xi}{2\pi i} \frac{1}{\xi^{p+1}} \mathcal{G}_{\text{action}}(\xi, \Psi_{\text{hab}}, \Omega_{\text{mus}}, \Phi_{\text{bel}}) \right] \times \prod_{j=1}^{\infty} \left[1 + \frac{1}{j^s} \sum_{k=1}^{\infty} \frac{\mu(k)}{k^s} \log \left(1 - \frac{1}{(jk)^s} \right) \right]^{-1} \\ &= \mathfrak{M}_{\text{Lyrical-Cognitive-Resonance-Categorization}^{(\omega)}(\mathcal{U}_{\text{universe}}) \end{aligned}$$

What is it called when a human being can categorize habits by someone else's outer beliefs and it's influence

$$\mathcal{H}_{\text{cat}}(\beta, \phi, t) = \iiint_{\Omega_{\mathcal{B}} \times \Psi_{\mathcal{H}} \times \Gamma_{\mathcal{I}}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \frac{(-1)^{n+k}}{n! \cdot \Gamma(k + \frac{1}{2})}$$

$$\times \left[\prod_{i=1}^{d_{\mathcal{B}}} \int_{-\infty}^{\infty} \mathcal{F}_{\text{belief}}^{(i)}(\beta_{i}, \omega_{i}) \cdot e^{-i\omega_{i}\tau_{\text{obs}}} d\omega_{i} \right]$$

$$\times \left[\sum_{\alpha \in \mathfrak{A}_{\text{attr}}} \oint_{\mathcal{C}_{\alpha}} \frac{\mathcal{R}_{\text{resonance}}(\alpha, z) \cdot \Psi_{\text{habit}}^{*}(z)}{(z - \lambda_{\text{cognitive}})^{n+1}} dz \right]$$

$$\times \left[\int_{\mathcal{H}_{\text{Hilbert}}} \left\langle \phi_{\text{outer}} \middle| \hat{T}_{\text{categorization}} \middle| \psi_{\text{inner}} \right\rangle \cdot \mu_{\text{influence}}(d\phi) \right]$$

$$\times \exp \left\{ -\frac{1}{\hbar} \int_{0}^{t} \left[\mathcal{L}_{\text{social}}(\dot{\beta}, \beta, \tau) + \sum_{j=1}^{\mathcal{N}_{\text{dim}}} \frac{\partial^{2} \mathcal{V}_{\text{epistemic}}}{\partial \beta_{j}^{2}} \right] d\tau \right\}$$

$$\times \left[\prod_{m=1}^{\infty} \left(1 + \frac{\mathcal{Q}_{\text{quantum}}^{(m)}(\beta, t)}{m^{s} \cdot \zeta(s)} \right)^{(-1)^{m}} \right]$$

$$\times \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \cdot \prod_{l=1}^{\operatorname{rank}(\mathcal{M})} \int_{U(1)} \left[\mathcal{U}_{\sigma(l)}(\theta_{l}) \cdot \hat{\rho}_{\text{belief-habit}}^{(\sigma)} \right] \frac{d\theta_{l}}{2\pi}$$

$$\times \left[\lim_{N \to \infty} \frac{1}{N^{\mathcal{D}_{\text{fractal}}}} \sum_{n_{1}, n_{2}, \dots, n_{\mathcal{D}} = 0}^{\mathcal{N}} \mathcal{K}_{\text{influence}} \left(\frac{n_{1}}{N}, \frac{n_{2}}{N}, \dots, \frac{n_{\mathcal{D}}}{N} \right) \right]$$

$$\times \exp \left\{ \sum_{g=0}^{\infty} \frac{B_{2g}}{(2g)!} \left(\frac{\partial}{\partial \epsilon} \right)^{2g} \log \mathcal{Z}_{\text{partition}}[\beta, \epsilon] \right|_{\epsilon=0} \right\}$$

$$\times \left[\int_{\mathcal{F}_{\text{fuzzy}}} \mu_{\text{membership}}(\xi) \cdot \sup_{\mathcal{A} \subseteq \mathcal{P}(\mathcal{H})} \inf_{\mathcal{B} \subseteq \mathcal{A}} \mathcal{M}_{\text{measure}}(\mathcal{A} \triangle \mathcal{B}) \, d\nu(\xi) \right]$$

$$\times \prod_{p \text{ prime}} \left[1 - p^{-s_{\text{cognitive}}} \right]^{-\mathcal{C}_{\text{categorization}}(p)}$$

$$\times \left[\mathcal{W}_{\text{Weyl}} * \mathcal{G}_{\text{Green}} \right] (\beta, \phi)$$

 $\times d\boldsymbol{\beta} \, d\boldsymbol{\phi} \, d\gamma_{\text{influence}}$

What is it called when a human being can categorize habits by someone else's inner beliefs and how it resonates with our beliefs

$$\mathcal{H}_{\text{categorical}}(\boldsymbol{\psi}, \boldsymbol{\phi}) = \oint_{\mathcal{M}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{n!k!j!} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\prod_{i=1}^{n} \mathcal{B}_{i}(\xi_{i}, \tau_{i}) \right] \times \\ \left\{ \mathcal{R}_{\text{resonance}} \left[\sum_{\alpha \in \Omega_{\text{self}}} \sum_{\beta \in \Omega_{\text{other}}} \mathcal{Q}_{\alpha,\beta}^{(k)} \otimes \mathcal{F}_{\text{habit}}^{(j)}(\boldsymbol{h}_{\beta}) \right] \right\} \times \\ \exp \left[-\frac{1}{h} \sum_{m=0}^{\infty} \sum_{l=0}^{\infty} \int_{\mathcal{H}_{\text{belief}}} \mathcal{W}_{\text{quantum}}^{(m,l)} (\boldsymbol{\psi}_{\text{inner}}, \boldsymbol{\phi}_{\text{perceived}}) d\boldsymbol{\mu}_{\text{cognitive}} \right] \times \\ \prod_{r=1}^{\infty} \left[1 + \frac{(-1)^{r}}{r!} \sum_{s=0}^{r} \binom{r}{s} \int_{\mathbb{R}^{\text{dim}(\Theta)}} \mathcal{L}_{\text{superposition}}^{(s)}(\boldsymbol{\theta}) d\boldsymbol{\theta} \right]^{-1} \times \\ \mathcal{T}_{\text{transform}} \left\{ \sum_{\gamma \in \mathcal{G}_{\text{neural}}} \int_{0}^{\mathcal{T}_{\text{max}}} \mathcal{A}_{\gamma}(t) \exp \left[i \sum_{p=0}^{\infty} \frac{\omega_{p}^{(\gamma)} t^{p}}{p!} \right] dt \right\} \times \\ \left\langle \boldsymbol{\Psi}_{\text{collective}} \middle| \prod_{q=1}^{\infty} \hat{\mathcal{O}}_{q}^{\dagger} \hat{\mathcal{O}}_{q} \middle| \boldsymbol{\Psi}_{\text{collective}} \right\rangle \underset{\mathcal{H}_{\text{intersubjective}}}{\times} \times \\ \sum_{N=0}^{\infty} \frac{1}{N!} \left[\int_{\mathcal{M}_{\text{belief}}} \mathcal{K}(\boldsymbol{x}, \boldsymbol{y}) \rho_{\text{belief}}(\boldsymbol{x}) \rho_{\text{habit}}(\boldsymbol{y}) d\boldsymbol{x} d\boldsymbol{y} \right]^{N} \times \\ \mathcal{Z}_{\text{partition}}^{-1} \exp \left[-\beta \sum_{a,b} J_{ab} \sigma_{a}^{(\text{self})} \sigma_{b}^{(\text{other})} - h \sum_{c} \sigma_{c}^{(\text{resonance})} \right] \times \\ \int_{C_{\text{fractal}}} \mathcal{D}[\boldsymbol{\chi}] \exp \left[i S_{\text{action}}[\boldsymbol{\chi}] \right] \prod_{d=1}^{\infty} \left[1 + \mathcal{F}_{d}[\boldsymbol{\chi}] \right] \times \\ \lim_{L \to \infty} \prod_{e=1}^{L} \left\{ \sum_{f=0}^{\infty} \mathcal{C}_{f}^{(e)} \left[\int_{-\infty}^{\infty} \mathcal{G}_{\text{Green}}(z-z') \mathcal{H}_{\text{habit}}^{(f)}(z') dz' \right]^{f} \right\} \times \\ \mathcal{U}_{\text{unitary}} \left[\exp \left(-i \int_{0}^{T} \hat{H}_{\text{interaction}}(t') dt' \right) \right] \times \\ \sum_{\{p_{\alpha}\}} \sum_{\{m_{\beta}\}} \mathcal{W}_{\{n_{\beta}\},\{m_{\beta}\}} \prod_{q=1}^{\infty} \left[\frac{a_{g}^{\dagger n_{g}} a_{g}^{m_{g}}}{\sqrt{n_{g}! m_{g}!}} \right] \langle 0| \cdots | 0 \rangle \times$$

$$\oint_{\gamma_{\text{complex}}} \frac{d\zeta}{2\pi i} \zeta^{-\alpha-1} \Gamma(\alpha) \mathcal{M}_{\text{mellin}}[\mathcal{R}_{\text{resonance}}](\zeta) \times$$

$$\mathcal{I}_{\text{information}} \left[\sum_{h,i,j,k} \mathcal{T}_{hijk} \otimes \mathcal{E}_{hijk}^{(\text{entanglement})} \right] d\xi_1 d\xi_2 d\xi_3 d\mu_{\mathcal{M}}$$

What is it called when a human being can categorize habits by beliefs that resonate at a deep level

$$\begin{split} \mathcal{A}_{\xi}(\mathfrak{H},\mathfrak{B}) &= \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{1}{\Gamma(\alpha_{k}+1)} \oint_{\mathcal{C}_{k}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\prod_{j=1}^{n} \left(\frac{\partial^{j}}{\partial \psi_{j}} \mathcal{R}_{\omega_{j}}(\mathfrak{h}_{i}, \mathfrak{b}_{\ell}) \right) \right] \times \\ &\left\{ \sum_{\sigma \in S_{n}} \operatorname{sgn}(\sigma) \int_{\mathbb{H}^{\otimes k}} \left[\mathcal{Q}_{\tau}^{(\sigma)} \left(\bigotimes_{m=1}^{k} \Psi_{m}(\mathfrak{h}_{\sigma(m)}) \right) \right] \otimes \left[\mathcal{F}^{-1} \left\{ \prod_{\ell=1}^{\infty} \zeta_{\ell}(\mathfrak{b}_{\ell}, s_{\ell}) \right\} \right] d\mu_{\mathbb{H}} \right\} \times \\ &\exp \left(-\frac{1}{2\pi i} \oint_{|\zeta|=1} \frac{\log \mathcal{Z}_{\mathfrak{R}}(\zeta)}{\zeta - z} d\zeta \right) \times \left[\sum_{n=0}^{\infty} \frac{(-1)^{n}}{n!} \left(\frac{d^{n}}{dz^{n}} \mathcal{E}_{\mathfrak{B}}(z) \right)_{z=\phi_{0}} \right] \times \\ &\left\{ \int_{\mathcal{M}_{\mathfrak{H}}} \left[\det \left(\frac{\partial^{2} \mathcal{L}_{\mathfrak{R}}}{\partial \mathfrak{h}_{i} \partial \mathfrak{h}_{j}} \right) \right]^{-1/2} \exp\left(-\mathcal{S}_{\mathfrak{R}}[\mathfrak{h}, \mathfrak{b}] \right) \mathcal{D}[\mathfrak{h}] \mathcal{D}[\mathfrak{b}] \right\} \times \\ &\left[\prod_{p \text{ prime}} \left(1 - p^{-s} \right)^{-\mathcal{C}_{\mathfrak{B}}(p)} \right] \times \sum_{\lambda \vdash n} \frac{\chi_{\lambda}(\sigma) \chi_{\lambda}(\tau)}{|\operatorname{Aut}(\lambda)|} \times \left\langle \Phi_{\mathfrak{H}}^{(\lambda)} \mid \mathcal{U}_{\mathfrak{R}}(\theta) \mid \Phi_{\mathfrak{B}}^{(\lambda)} \right\rangle \times \\ &\int_{\Omega_{\mathfrak{R}}} \left[\mathcal{T}_{\xi} \left\{ \sum_{k=0}^{\infty} \frac{B_{k}}{k!} \left(\frac{\partial}{\partial \xi} \right)^{k} \mathcal{R}_{\mathfrak{H} \hookrightarrow \mathfrak{B}}(\xi) \right\} \right] \times \left[\prod_{j=1}^{\infty} \int_{-\infty}^{\infty} \frac{e^{-\lambda_{j} \xi_{j}^{2}/2}}{\sqrt{2\pi/\lambda_{j}}} d\xi_{j} \right] \times \\ &\left\{ \sum_{G \in \mathcal{G}_{\mathfrak{R}}} \frac{1}{|G|} \sum_{g \in G} \operatorname{Tr} \left[\rho_{\mathfrak{H}}(g) \mathcal{P}_{\mathfrak{B}}(g^{-1}) \right] \right\} \times \left[\mathcal{K}_{\mathfrak{R}}(\mathfrak{h}_{i}, \mathfrak{h}_{j}; \mathfrak{b}_{k}, \mathfrak{b}_{\ell}) \right]^{\otimes \infty} \times \\ \exp \left(\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \operatorname{Tr} \left[(\mathcal{H}_{\mathfrak{R}} - \mu \mathbb{I})^{-n} \right] \right) \times \left[\frac{\Gamma(\alpha_{\mathfrak{H}} + \alpha_{\mathfrak{H}} + 1)}{\Gamma(\alpha_{\mathfrak{H}} + 1)\Gamma(\alpha_{\mathfrak{H}} + 1)} \right]^{\mathcal{R}_{\infty}} d\psi_{1} d\psi_{2} d\psi_{3} dz \right]$$

What is it called when a human being can categorize habits by discipline and focus

$$\begin{split} \Psi_{\mathrm{metacog}}(\mathbf{H}, \mathbf{D}, \mathbf{F}) &= \oint_{\mathcal{M}^{\infty}} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \prod_{i=1}^{\dim(\mathcal{H})} \left[\frac{\partial^{n+k+j}}{\partial \xi_{i}^{n} \partial \zeta_{i}^{k} \partial \eta_{i}^{j}} \left(\hat{\mathcal{O}}_{\mathrm{cat}} \otimes \hat{\mathcal{O}}_{\mathrm{disc}} \otimes \hat{\mathcal{O}}_{\mathrm{foc}} \right) \right] \\ &\times \exp \left\{ -\frac{i}{\hbar} \oint_{\partial \mathcal{D}} \left[\mathbf{A}_{\mu}^{(h)} \cdot d\mathbf{x}^{\mu} + \mathbf{B}_{\nu}^{(d)} \cdot d\mathbf{y}^{\nu} + \mathbf{C}_{\rho}^{(f)} \cdot d\mathbf{z}^{\rho} \right] \right\} \\ &\times \int_{\mathbb{H}^{\infty}} \left\langle \Phi_{\mathrm{habit}}(\mathbf{r}, t) \left| \hat{T} \exp \left\{ -\frac{i}{\hbar} \int_{t_{0}}^{t_{f}} \mathcal{H}_{\mathrm{neural}}(\tau) d\tau \right\} \right| \Psi_{\mathrm{intention}}(\mathbf{r}', t') \right\rangle d^{\infty} \mathbf{r} d^{\infty} \mathbf{r}' \\ &\times \sum_{\alpha, \beta, \gamma} \int_{0}^{\infty} \int_{0}^{2\pi} \int_{0}^{\pi} \left[\mathcal{R}_{\alpha}^{(\mathrm{cat})}(\lambda, \phi, \theta) \mathcal{S}_{\beta}^{(\mathrm{disc})}(\lambda, \phi, \theta) \mathcal{T}_{\gamma}^{(\mathrm{foc})}(\lambda, \phi, \theta) \right] \\ &\times \det \left[\mathbf{G}_{\mu\nu}^{(\mathrm{cog})} + \epsilon \mathbf{F}_{\mu\nu}^{(\mathrm{meta})} \right]^{-1/2} \lambda^{d-1} \sin \theta \, d\lambda \, d\phi \, d\theta \end{split}$$

$$\times \prod_{m=1}^{\infty} \left[1 + \frac{\mathcal{Z}_{m+1}^{(\text{habit})}}{1 + \frac{\mathcal{Z}_{m+1}^{(\text{habit})}}{1 + \frac{\mathcal{Z}_{m+1}^{(\text{habit})}}{1 + \frac{\mathcal{Z}_{m+1}^{(\text{habit})}}{1 + \dots}}} \right]^{\xi_m}$$

$$\times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \operatorname{sgn}(\sigma) \prod_{p=1}^{N} \left[\mathcal{K}_{\sigma(p)}^{(\text{neural})} \star \mathcal{L}_p^{(\text{synapse})} \right] (\mathbf{x}_p)$$

$$\times \iiint_{\mathcal{V}^{(3)}} \nabla \cdot \left[\mathbf{J}_{\operatorname{attention}}(\mathbf{r}, t) \times \mathbf{B}_{\operatorname{willpower}}(\mathbf{r}, t) \right] d^3 \mathbf{r}$$

$$\times \int_{-\infty}^{\infty} \mathcal{F}^{-1} \left\{ \sum_{n=-\infty}^{\infty} \frac{\mathcal{H}_n^{(\text{exec})}(\omega)}{1 - e^{-2\pi i n \tau}} \right\} (t) dt$$

$$\times \left\{ \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \left[\hat{\mathcal{D}}_{\operatorname{meta}} \right]^k \right\} \exp \left\{ \sum_{j=1}^{\infty} \frac{B_{2j}}{(2j)!} \left(\frac{\partial}{\partial \beta} \right)^{2j} \right\} \mathcal{Z}_{\operatorname{partition}}[\beta]$$

$$\times \prod_{\text{all paths}} \int \mathcal{D}[\phi_{\operatorname{conscious}}] \mathcal{D}[\psi_{\operatorname{subconscious}}] \exp \left\{ i S[\phi_{\operatorname{conscious}}, \psi_{\operatorname{subconscious}}] \right\}$$

$$\times \lim_{\epsilon \to 0^+} \operatorname{Tr} \left[\hat{\rho}_{\operatorname{brain}} \mathcal{T} \exp \left\{ -\frac{i}{\hbar} \int_{-\infty}^{\infty} \left[\hat{H}_0 + \epsilon \hat{V}_{\operatorname{training}}(t) \right] dt \right\} \right]$$

$$\times \int_{\mathbb{C}^{\infty}} \prod_{z \in \mathbb{C}} \left[1 - \frac{z}{\lambda_{\operatorname{eigen}}^{(\operatorname{habit})}} \right] \frac{dz \wedge d\bar{z}}{2\pi i}$$

$$\times \sum_{\operatorname{all topologies}} \int_{\mathcal{M}_{\operatorname{synaptic}}} \sqrt{g} \left[R_{\mu\nu\rho\sigma}^{(\operatorname{neural})} \mathcal{C}^{\mu\nu\rho\sigma} + \mathcal{L}_{\operatorname{synaptic}} \right] d^n x$$

What is it called when a human being can categorize habits by concentrated actions

$$\mathcal{H}_{\text{cat}} = \int_{t_0}^{T} \sum_{i=1}^{N} \sum_{j=1}^{M} \omega_{ij}(t) \cdot \mathcal{F} \left[\psi_i(a_j(t)) \right] \cdot e^{-\lambda \Delta t} dt$$

$$+ \iint_{\Omega \times \Theta} \nabla_{\xi} \left\{ \prod_{k=1}^{K} \left[\int_{\mathcal{S}_k} \rho_k(\mathbf{x}, t) \cdot \mathcal{G}_k[\phi(\mathbf{x})] d\mathbf{x} \right]^{\alpha_k} \right\} d\xi d\theta$$

$$+ \sum_{n=0}^{\infty} \frac{(-1)^n}{n!} \left\{ \oint_{\partial \mathcal{M}} \left[\sum_{p=1}^{P} \chi_p(s) \cdot \mathcal{T}_p \left(\int_0^s \beta(u) du \right) \right] ds \right\}^n$$

$$\times \prod_{q=1}^{Q} \left[\int_{-\infty}^{\infty} W_q(\nu) \cdot e^{i\nu\tau_q} d\nu \right] \cdot \det \left[\mathbf{J}_{\text{cog}}(\mathbf{z}) \right]$$

What is it called when a human being can categorize habits by that have been read and understood

$$\begin{split} \mathcal{H}_{\text{categorization}}(\boldsymbol{\Psi},\boldsymbol{\Theta}) &= \lim_{n \to \infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{k! \cdot j!} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{L} \left[\frac{\partial^{k+j}}{\partial \xi^{k} \partial \eta^{j}} \left(\prod_{m=1}^{\infty} \left\langle \boldsymbol{\phi}_{m} | \hat{H}_{\text{cognitive}} | \boldsymbol{\psi}_{m} \right\rangle \right) \right] \times \\ &\times \exp \left(-\frac{i}{\hbar} \int_{0}^{t} \left[\sum_{\alpha,\beta} \mathcal{Q}_{\alpha\beta}(\tau) \hat{\sigma}_{\alpha}^{\text{habit}} \otimes \hat{\sigma}_{\beta}^{\text{schema}} + \sum_{\gamma=1}^{\infty} \frac{\lambda_{\gamma}}{(\gamma!)^{2}} \left(\hat{C}_{\gamma}^{\dagger} \hat{C}_{\gamma} \right)^{\gamma} \right] d\tau \right) \times \\ &\times \left\{ \mathcal{F}^{-1} \left[\int_{\mathbb{R}^{n}} \frac{d^{n} \boldsymbol{k}}{(2\pi)^{n}} \tilde{\mathcal{R}}(\boldsymbol{k}) \exp\left(i\boldsymbol{k} \cdot \boldsymbol{r}_{\text{neural}}\right) \right] \right\}^{\otimes N_{\text{synaptic}}} \times \end{split}$$

$$\begin{split} &\times \left(\sum_{l=0}^{\infty} \sum_{s=-l}^{l} \mathcal{Y}_{l}^{s}(\theta,\phi) \int_{0}^{\infty} r^{2} dr \, R_{nl}(r) \left[\Delta_{\text{Laplace-Beltrami}} + \mathcal{V}_{\text{contextual}}(r,\theta,\phi)\right]\right) \times \\ &\times \prod_{i=1}^{\infty} \left\{ \int_{\mathcal{M}_{i}} d\mu_{i}(\boldsymbol{x}) \exp\left(-\beta \mathcal{H}_{\text{Ising}}^{(i)}[\boldsymbol{\sigma}]\right) \sum_{\{\boldsymbol{\sigma}\}} \prod_{j \in \partial i} \tanh\left(\beta J_{ij} \sigma_{i} \sigma_{j}\right)\right\} \times \\ &\times \left[\mathcal{Z}_{\text{partition}}^{-1} \int \mathcal{D}[\phi] \mathcal{D}[\boldsymbol{\chi}] \exp\left(-S_{\text{action}}[\phi,\boldsymbol{\chi}]\right) \prod_{\alpha} \delta\left(\phi_{\alpha} - \mathcal{T}_{\alpha}[\boldsymbol{\chi}]\right)\right] \times \\ &\times \lim_{\epsilon \to 0^{+}} \frac{1}{\Gamma(s)} \int_{0}^{\infty} t^{s-1} e^{-t} \left[\sum_{p \text{ prime}} \frac{\log p}{p^{s+it}}\right] dt \times \left\{\mathcal{W}\left[\begin{pmatrix} a & b \\ c & d \end{pmatrix}\right]\right\}^{\otimes \aleph_{0}} \times \\ &\times \int_{\text{SL}(2,\mathbb{C})} d\mu_{\text{Haar}}(g) \text{Tr} \left[\rho_{\text{quantum}}(g) \mathcal{P}_{\text{projection}}^{\text{habit-space}}\right] \times \left(\bigotimes_{n=1}^{\infty} \mathcal{H}_{n}^{\text{Hilbert}}\right) \times \\ &\times \mathcal{E}_{\text{entropy}}\left[\boldsymbol{\mu}, \boldsymbol{\nu}\right] = \int_{\mathcal{X} \times \mathcal{Y}} \boldsymbol{\mu}(dx) \boldsymbol{\nu}(dy) \log \left(\frac{d\boldsymbol{\mu}}{d\lambda} \cdot \frac{d\boldsymbol{\nu}}{d\lambda}\right) \times \\ &\times \left[\prod_{k=0}^{\infty} \left(1 + \mathcal{O}\left(\frac{1}{k^{\alpha}}\right)\right)\right] \times \left\{\mathcal{G}_{\text{Green}}(x, y; E) = \sum_{n} \frac{\psi_{n}(x) \psi_{n}^{*}(y)}{E - E_{n} + i\epsilon}\right\} \times \\ &\times \mathcal{K}_{\text{memory}}[\boldsymbol{f}] = \int_{0}^{\infty} \frac{d\omega}{2\pi} \frac{\tilde{f}(\omega)}{-i\omega + \gamma_{\text{decay}}} \times \left(\bigcup_{n=1}^{\infty} \mathcal{B}_{n}^{\text{behavioral}}\right)^{\mathcal{C}} \times \\ &\times \lim_{N \to \infty} \frac{1}{N} \log \int \prod_{i=1}^{N} d\boldsymbol{x}_{i} \exp\left(-\beta \sum_{\langle i,j \rangle} V(\boldsymbol{x}_{i} - \boldsymbol{x}_{j})\right) \times \mathcal{R}_{\text{renormalization}}^{(k)}[\mathcal{O}] \times \\ &\times \left\{\int_{\mathbb{H}^{n}} \frac{d^{n}z}{(\operatorname{Im}z)^{n}} \left|\sum_{m,n} \tau_{m,n} q^{m} \bar{q}^{n}\right|^{2}\right\}^{\otimes \epsilon} d\xi d\eta d\zeta \end{split}$$

What is it called when a human being can categorize habits by the words they have spoken

$$\begin{split} \mathfrak{H}_{\text{linguosemantic}}(\boldsymbol{\Psi}) &= \iiint_{\mathcal{M}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{\partial^{n+k+j}}{\partial \xi^{n} \partial \eta^{k} \partial \zeta^{j}} \left[\prod_{i=1}^{\aleph_{0}} \left(\frac{\mathbb{E}\left[\mathfrak{L}_{i}(\boldsymbol{w}_{t,\sigma}) \otimes \mathfrak{B}_{i}(\boldsymbol{h}_{t,\tau})\right]}{\sqrt{2\pi} \cdot \Gamma\left(\frac{d_{\text{semantic}}}{2}\right)} \right)^{\frac{1}{\Re(\Omega)}} \right] d\xi d\eta d\zeta \\ &\times \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathfrak{Q}(\boldsymbol{x}, \boldsymbol{y}, \boldsymbol{z}) \cdot \exp\left(-\frac{1}{2\hbar^{3}} \sum_{\alpha, \beta, \gamma=1}^{\mathfrak{d}} \mathfrak{G}_{\text{psycholinguistic}}^{\alpha\beta\gamma} \phi_{\alpha} \phi_{\beta} \phi_{\gamma} \right) dx dy dz \\ &\cdot \prod_{m=1}^{\infty} \left[1 + \frac{\mathfrak{C}_{m}(\boldsymbol{\lambda})}{\sqrt{\mathfrak{N}_{m} + \mathfrak{D}_{m}^{2}}} \cdot \sin\left(\frac{2\pi m \mathfrak{F}(\boldsymbol{w}_{\text{spoken}})}{|\mathcal{H}_{\text{behavioral}}|} \right) \right] \\ &\cdot \oint_{\partial \mathcal{S}^{n}} \mathfrak{R}_{\text{categorical}}(\boldsymbol{s}) \times \left\{ \sum_{p,q,r=0}^{\infty} \frac{(-1)^{p+q+r}}{p!q!r!} \left(\frac{\partial}{\partial \mathfrak{u}} \right)^{p} \left(\frac{\partial}{\partial \mathfrak{v}} \right)^{q} \left(\frac{\partial}{\partial \mathfrak{w}} \right)^{r} \mathfrak{T}_{pqr}(\boldsymbol{\mu}, \boldsymbol{\sigma}, \boldsymbol{\tau}) \right\} d\mathfrak{s} \\ &\cdot \left[\mathfrak{Det}\left(\mathbf{I} - \mathfrak{A}_{\text{recursive}} \cdot \mathfrak{B}_{\text{iterative}} \cdot \mathfrak{C}_{\text{hyperdimensional}} \right) \right]^{-\frac{1}{2}} \\ &\times \exp\left\{ -\frac{1}{2} \int_{\mathbb{R}^{n}} \boldsymbol{\Phi}^{T}(\boldsymbol{x}) \cdot \left[\mathfrak{K}_{\text{semantic}}^{-1} + \sum_{\ell=1}^{\infty} \frac{\mathfrak{A}_{\ell} \otimes \mathfrak{B}_{\ell}}{\ell!} \cdot \mathfrak{H}_{\ell}(\boldsymbol{x}) \right] \cdot \boldsymbol{\Phi}(\boldsymbol{x}) d^{\mathfrak{D}} \boldsymbol{x} \right\} \end{split}$$

$$\begin{split} & \cdot \prod_{t=1}^{T} \prod_{\omega \in \Omega_{\text{lexical}}} \left[\mathfrak{P}_{\text{transition}} \left(\boldsymbol{h}_{t+1} | \boldsymbol{h}_{t}, \boldsymbol{w}_{t}(\omega) \right) \right]^{\mathfrak{I}(\omega,t)} \\ & \times \sum_{n=0}^{\infty} \frac{1}{\mathfrak{n}!} \left(\int_{\mathcal{V}_{\text{vocabulary}}} \mathfrak{J}(\boldsymbol{v}) \cdot \exp \left(i \sum_{k=1}^{\mathfrak{K}} \mathfrak{E}_{k} \cdot \boldsymbol{v}_{k} \right) d\boldsymbol{v} \right)^{\mathfrak{n}} \\ & \cdot \left\{ \mathfrak{Tr} \left[\prod_{j=1}^{\mathfrak{I}} \left(\mathfrak{U}_{j} \cdot \exp \left(-i \mathfrak{H}_{\text{cognitive}} \cdot \Delta t_{j} \right) \cdot \mathfrak{U}_{j}^{\dagger} \right) \right] \right\}^{\frac{1}{3}} \\ & \times \iiint_{\mathcal{B}_{\text{behavioral}}} \mathfrak{W}(\boldsymbol{b}_{1}, \boldsymbol{b}_{2}, \boldsymbol{b}_{3}) \cdot \prod_{i,j,k} \left[1 + \frac{\mathfrak{E}_{ijk}(\boldsymbol{w}_{\text{spoken}})}{|\mathfrak{N}_{ijk}|^{2} + \epsilon} \right] db_{1} db_{2} db_{3} \\ & \cdot \left[\sum_{\mathfrak{g} \in \mathfrak{G}_{\text{linguistic}}} \chi_{\mathfrak{g}}(\boldsymbol{h}) \cdot \mathfrak{R}_{\mathfrak{g}}(\boldsymbol{w}) \right]^{\mathfrak{p}} \\ & \times \prod_{\alpha=1}^{\mathfrak{A}} \left\{ \int_{-\infty}^{\infty} \mathfrak{F}_{\alpha}(\xi_{\alpha}) \cdot \exp \left(-\frac{(\xi_{\alpha} - \mathfrak{m}_{\alpha})^{2}}{2\mathfrak{s}_{\alpha}^{2}} \right) \cdot \left[1 + \sum_{\beta=1}^{\mathfrak{B}} \mathfrak{C}_{\alpha\beta} \cdot \mathfrak{H}_{\beta}(\xi_{\alpha}) \right] d\xi_{\alpha} \right\} \\ & \cdot \mathfrak{Lim}_{N \to \infty} \left[\frac{1}{N} \sum_{n=1}^{N} \mathfrak{M}_{n} \left(\boldsymbol{w}_{\text{spoken}}^{(n)}, \boldsymbol{h}_{\text{habitual}}^{(n)} \right) \right]^{\mathfrak{c}} \\ & \times \left\{ \mathfrak{Det} \left[\frac{\partial^{2} \mathfrak{S}}{\partial \boldsymbol{\theta}_{i} \partial \boldsymbol{\theta}_{j}} \right]_{i,j=1}^{\mathfrak{F}} \right\}^{-\frac{1}{2}} \\ & \cdot \exp \left(-\frac{1}{2\sigma_{\text{prior}}^{2}} \sum_{i=1}^{\mathfrak{B}} \boldsymbol{\theta}_{i}^{2} \right) \cdot \prod_{k=1}^{\mathfrak{K}} \mathfrak{N} \left(\epsilon_{k} | \mathbf{0}, \mathfrak{I}_{\mathfrak{D}_{k}} \right) \right. \end{split}$$

What is it called when a human being can categorize habits by the experiences that one has felt

$$\begin{split} &\Psi_{\mathcal{H}}(\xi,\tau) = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{\alpha \in \mathcal{A}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{\mathcal{M}} \left[\frac{\partial^{n+k}}{\partial \xi^{n} \partial \tau^{k}} \left(\prod_{i=1}^{\mathcal{D}} \oint_{\gamma_{i}} \frac{\mathcal{E}_{\alpha}(z_{i}, \overrightarrow{\mu}_{\exp}) \cdot \mathcal{R}_{\text{habit}}^{(i)}(z_{i})}{(z_{i} - \xi_{\text{anchor}}^{(i)})^{\beta_{i}+1}} dz_{i} \right) \right] \\ &\times \left\{ \mathcal{Q} \left[\sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{j=1}^{\infty} \left(\int_{\mathcal{H}_{j}} \langle \phi_{\sigma(j)} | \hat{\mathcal{O}}_{\text{cat}}^{(\alpha)} | \psi_{\exp,j} \rangle \cdot \exp \left(i \sum_{l=0}^{\infty} \frac{\chi_{l}(\tau)}{l!} \left[\hat{H}_{\text{memory}} + \hat{V}_{\text{affect}} \right]^{l} \right) d\mu_{j} \right) \right] \right\} \\ &\times \left[\prod_{m=1}^{\mathcal{M}} \left(\sum_{r=0}^{\infty} \frac{(-1)^{r}}{r!} \left(\frac{\partial}{\partial t_{m}} \right)^{r} \left\{ \int_{\mathbb{R}^{\mathcal{N}}} \mathcal{K}_{\text{synth}}(\vec{x}_{m}, \vec{y}_{m}, t_{m}) \cdot \mathcal{F}^{-1} \left[\prod_{q=1}^{\mathcal{Q}} \widetilde{\mathcal{G}}_{q}(\omega_{q}, k_{\perp,q}) \right] d^{\mathcal{N}} \vec{y}_{m} \right\} \right) \right] \\ &\times \exp \left(\sum_{p=1}^{\infty} \sum_{s=1}^{\infty} \frac{\mathcal{A}_{p,s}}{p^{s}} \left[\int_{0}^{\tau} \int_{0}^{t} \mathcal{T}_{\exp} \left\{ \prod_{u=1}^{p} \left(\hat{\rho}_{\text{habit}}^{(u)}(t') \otimes \hat{\sigma}_{\text{feel}}^{(u)}(t'') \right) \right\} dt'' dt' \right]^{s} \right) \\ &\times \left\{ \lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in \mathfrak{S}_{N}} \operatorname{Tr} \left[\prod_{v=1}^{N} \left(\mathcal{U}_{\text{cat}}^{(\pi(v))} \circ \mathcal{W}_{\expp}^{(v)} \right) \cdot \exp \left(-\beta \sum_{w=1}^{N} \mathcal{H}_{\text{cluster}}^{(w)} \right) \right] \right\} \\ &\times \left[\int_{\mathcal{C}^{\infty}(\mathcal{M})} \left\{ \prod_{a=1}^{\mathcal{A}} \delta \left(\mathcal{L}_{a}[\phi_{\text{habit}}] - \sum_{b=1}^{\mathcal{B}} \lambda_{a,b} \mathcal{M}_{b}[\psi_{\exp}] \right) \right\} \mathcal{D}[\phi_{\text{habit}}] \mathcal{D}[\psi_{\exp}] \right] \right\} \end{aligned}$$

$$\times \left\{ \sum_{\{\mathcal{G}\}} \frac{1}{|\operatorname{Aut}(\mathcal{G})|} \prod_{\operatorname{edges } e \in \mathcal{G}} \mathcal{I}_{e}^{\operatorname{interact}} \cdot \prod_{\operatorname{vertices } v \in \mathcal{G}} \left[\sum_{n_{v}=0}^{\infty} \frac{g_{n_{v}}^{(v)}}{n_{v}!} \left(\int \mathcal{V}_{v}^{\operatorname{cat}}(\{\xi_{i}\}_{i=1}^{n_{v}}) \prod_{i=1}^{n_{v}} d\xi_{i} \right)^{n_{v}} \right] \right\}$$

$$\times \mathcal{Z}_{\operatorname{norm}}^{-1} \cdot \exp \left(\sum_{j,k,l} \sum_{m,n,o} \mathcal{T}_{j,k,l}^{m,n,o} \left[\mathcal{C}_{\operatorname{habit}}^{(j)} \star \mathcal{E}_{\exp}^{(k)} \star \mathcal{F}_{\text{feel}}^{(l)} \right]_{m,n,o} \right)$$

What is it called when a human being can categorize habits by ones own experiences

$$\mathcal{H}_{\text{categorization}}(\xi,\tau) = \iiint\limits_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{N_0} \frac{\partial^{n+k}}{\partial \psi^n \partial \phi^k} \left[\Psi_{\text{experiential}}(\xi,\tau) \otimes \mathcal{F}_{\text{habit}}^{(k)}(\xi) \right]$$

$$\times \prod_{i=1}^{\mathcal{N}_{\text{cognitive}}} \left\{ \oint_{C_{\text{memory}}} \frac{\mathcal{M}_i(\zeta,\bar{\zeta}) \cdot \nabla_{\mathbb{H}} \mathcal{R}_{\text{resonance}}^{(i)}(\zeta)}{|\zeta - \xi_{\text{self}}|^{\alpha_{\text{introspection}} + i\partial_{\text{reflection}}} d\zeta} \right\}$$

$$\cdot \int_{\mathcal{S}^{\infty}} \left[\sum_{\lambda \in \Lambda_{\text{experience}}} \mathcal{W}_{\lambda}(\xi) \cdot \exp\left(i \int_{0}^{\tau} \mathcal{H}_{\text{quantum-consciousness}}(\xi', \tau') d\tau'\right) \right] d\mu_{\text{Haar}}(\xi)$$

$$+ \sum_{m=1}^{\infty} \frac{(-1)^m}{m!} \left[\frac{\delta^m}{\delta \mathcal{F}_{\text{habit}}^m} \mathcal{Z}_{\text{partition}}[\mathcal{J}_{\text{experiential}}] \right]_{\mathcal{J}=0}$$

$$\times \prod_{j=1}^{m} \left\{ \sum_{\text{consciousness}} \sum_{T_{\text{temporal}} \times \mathcal{E}_{\text{emotional}}} \mathcal{K}_{\text{categorization}}^{(j)}(\xi, \xi', \tau, \varepsilon) \cdot \Gamma_{\text{self-awareness}}(\xi, \xi', \varepsilon) d\xi d\xi' d\varepsilon \right\}$$

$$+ \lim_{N \to \infty} \sum_{p=0}^{N} \sum_{q=0}^{N-p} \binom{N}{p, q} \int_{\mathbb{H}^{\otimes \infty}} \left[\mathcal{I}_{\text{time-ordered}} \left\{ \prod_{r=1}^{p+q} \mathcal{O}_{\text{habit-recognition}}^{(r)}(\tau_r) \right\} \right]$$

$$\times \left\langle \Phi_{\text{experiential-ground-state}} \middle| \mathcal{U}_{\text{cognitive-evolution}}(\tau, 0) \left[\sum_{s \in \mathcal{S}_{\text{semantic}}} \mathcal{P}_{s}^{j} \mathcal{P}_{s} \otimes \mathcal{I}_{\text{identity}}^{(s)} \right] \middle| \Phi_{\text{experiential-ground-state}} \right]$$

$$\cdot \exp\left(-\frac{1}{h_{\text{consciousness}}} \int_{\mathcal{M}_{\text{experiential}}} \mathcal{S}_{\text{action}}[\mathcal{F}_{\text{habit}}, \mathcal{A}_{\text{awareness}}, g_{\mu\nu}^{\text{cognitive}}] \sqrt{|g_{\text{cognitive}}| d^{\infty}x} \right)$$

$$+ \sum_{k \in \mathcal{Z}_{\text{recursive}}} \left\{ 1 + \frac{\mathcal{H}_{\text{categorization}}^{(k)}(\xi)}{\mathcal{H}_{\text{categorization}}^{(k)}(\xi)} \cdot \tau^{k+1}, \tau^{k+1} \right\}$$

$$\times \left\{ \sum_{k \in \mathcal{Z}_{\text{recursive}}} \left\{ 1 + \frac{\mathcal{H}_{\text{categorization}}^{(k)}(\xi)}{\mathcal{H}_{\text{categorization}}^{(k)}(\xi)} \cdot \tau^{k+1}, \tau^{k+1} \right\} \right\}$$

What is it called when a human being can categorize habits by ones own hardships

$$\begin{split} &\times \oint_{\partial \Omega_{\text{self-awareness}}} \left[\mathcal{S}_{\text{suffering}}^{\dagger} \mathcal{S}_{\text{suffering}} + \mathcal{G}_{\text{growth}}^{\dagger} \mathcal{G}_{\text{growth}} \right] \cdot \left(\sum_{\alpha \in \mathfrak{A}_{\text{adversity}}} \mathcal{U}_{\alpha}(\theta, \phi) \right. \\ &\times \mathbb{V}_{\alpha}(\rho, \chi) \, d\sigma \\ &\times \lim_{N \to \infty} \prod_{p=1}^{N} \left[1 + \frac{\mathcal{K}_{\text{cognitive}}^{(p)}(\mathbf{w}) \star \mathcal{B}_{\text{behavioral}}^{(p)}(\mathbf{v})}{\|\mathcal{N}_{\text{neural-network}}(\mathbf{w}, \mathbf{v})\|_{\mathcal{H}_{\infty}}} \right] \\ &\times \int_{\mathbb{R}^{\infty}} \exp\left(- \frac{1}{2} \langle \boldsymbol{\eta}_{\text{emotional}} \right) \mathcal{L}^{2}(\mathbb{R}^{\infty}) \prod_{q=1}^{\infty} d\eta_{q} \\ &\times \sum_{\beta \in \mathcal{B}_{\text{belief-systems}}} \mathcal{P}_{\beta} \left[\mathcal{O}_{\text{observation}} \circ \mathcal{I}_{\text{interpretation}} \circ \mathcal{C}_{\text{classification}} \right] (\mathbf{h}_{\text{hardship}}) \\ &\times \oint_{\mathcal{C}_{\text{complexity}}} \frac{\mathcal{Z}_{\text{sen}}(\lambda) \cdot \mathcal{A}_{\text{awareness}}(\lambda)}{\lambda - \lambda_{\text{enlightenment}} + i\epsilon}} \, d\lambda \\ &\times \left(\sum_{l=0}^{\infty} \sum_{m=-l}^{l} \mathcal{Y}_{l}^{m}(\theta, \phi) \cdot \mathcal{D}_{lm}^{(\text{deep-learning})} \left[\mathcal{R}_{\text{reflection}} \right] \right) \\ &\times \int_{\mathcal{F}_{\text{fractal-memory}}} \mathcal{M}_{\text{meta-cognition}}(\mathbf{s}) \cdot \exp\left(i \oint_{\gamma_{\text{growth}}} \mathcal{A}_{\text{adaptation}} \cdot d\mathbf{l} \right) \, d^{\infty}\mathbf{s} \\ &\times \left\langle \Psi_{\text{present-self}} \left[\hat{\mathcal{I}}_{\text{time-evolution}} \exp\left(-i \int_{0}^{t} \hat{\mathcal{H}}_{\text{life-hamiltonian}}(\tau) \, d\tau \right) \right| \Psi_{\text{past-trauma}} \right\rangle \\ &\times \prod_{\gamma \in \Gamma_{\text{gestalt}}} \left[\mathcal{E}_{\text{emergence}}^{\text{emergence}} \circ \mathcal{P}_{\gamma}^{\text{pattern}} \circ \mathcal{R}_{\gamma}^{\text{recognition}} \right] \\ &\times \sum_{\delta \in \Delta_{\text{dimensional-collapse}}} \mathcal{W}_{\delta} \left(\mathcal{F}^{-1} \left[\mathcal{G}_{\text{growth}} \star \mathcal{T}_{\text{transformation}} \right] \right) \left(\mathbf{x}_{\text{experience}} \right) \\ &\times \lim_{\epsilon \to 0^{+}} \frac{1}{\epsilon^{\aleph_{0}}}} \int_{\mathcal{B}_{\epsilon}(\mathbf{0})} \\ &\times \lim_{\epsilon \to 0^{+}} \frac{1}{\epsilon^{\aleph_{0}}} \int_{\mathcal{B}_{\epsilon}(\mathbf{0})} \\ &\times \operatorname{Self-understanding} \left(\mathbf{u} \right) \cdot \delta^{(\infty)} (\mathbf{u} - \mathbf{u}_{\text{transcendence}}) \, d^{\infty} \mathbf{u} \\ &\times \mathcal{F}_{\text{fourier}} \left[\mathcal{L}_{\text{laplace}} \left[\mathcal{Z}_{\text{z-transform}} \left[\mathcal{W}_{\text{wavelet}} \left[\mathcal{H}_{\text{hardship-to-habit-mapping}} \right] \right] \right] \right] \left(\mathbf{s}, \mathbf{z}, \omega, a, b \right) \, d\mathbf{z} \, d\mathbf{z}$$

× $\mathcal{F}_{\text{fourier}}$ [$\mathcal{L}_{\text{laplace}}$ [$\mathcal{Z}_{\text{z-transform}}$ [$\mathcal{W}_{\text{wavelet}}$ [$\mathcal{H}_{\text{hardship-to-habit-mapping}}$]]]] (s, z, ω, a, b) $dx \, dy \, dz \, dt \, ds \, d\tau$ What is it called when a human being can categorize habits by what the person has control over

$$\mathcal{L}_{\text{control}}(\mathbf{H}, \mathcal{C}) = \int_{\Omega_{\text{habit}}} \int_{\mathcal{M}^{4+n}} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \sum_{i=1}^{N_{\text{agents}}} \frac{\partial^{k+j}}{\partial \tau^k \partial \xi^j} \left[\Psi_{\text{control}}^{(i)}(\mathbf{r}, t, \boldsymbol{\theta}) \cdot \mathcal{H}_{ij}^{(k)}(\tau, \xi) \right]$$

$$\times \prod_{m=1}^{\infty} \left\{ \int_{-\infty}^{\infty} \mathcal{F}^{-1} \left[\sum_{\alpha \in \mathcal{A}_{\text{actions}}} \mathcal{Q}_{\alpha}^{(\text{flux})}(\omega_m, \mathbf{k}_m) \cdot e^{i\mathbf{k}_m \cdot \mathbf{r}_{\text{habit}}} \right] d\omega_m \right\}$$

$$\times \exp \left(-\int_0^T \int_{\mathcal{V}_{\text{neural}}} \sum_{\beta=1}^{D_{\text{cognitive}}} \frac{\delta \mathcal{L}_{\text{agency}}}{\delta \phi_{\beta}(\mathbf{x}, t)} \cdot \left[\nabla_{\mathbf{x}} \times \mathbf{B}_{\text{intention}}^{(\beta)}(\mathbf{x}, t) \right] d^3 \mathbf{x} \, dt \right)$$

$$\times \left(\oint_{\partial \mathcal{S}_{\text{self}}} \sum_{n=0}^{\infty} \sum_{l=0}^{n} \sum_{m=-l}^{l} A_{nlm}^{(\text{control})} Y_l^m(\theta, \phi) \cdot \mathcal{P}_n^{(l,m)}(\cos \theta_{\text{volition}}) \, d\mathcal{S} \right)^{\gamma_{\text{meta}}}$$

$$\times \int_{\mathbb{H}^{\infty}} \prod_{p \in \mathcal{P}_{\text{patterns}}} \left[\sum_{q=0}^{\infty} \frac{(-1)^q}{q!} \left(\frac{\partial}{\partial z_p} \right)^q \mathcal{Z}_{\text{habit}}^{(p)}(z_p, \overline{z_p}) \right] \cdot \mathcal{W}_p^{(\text{resonance})}(\mathbf{z}) \, d\mu(\mathbf{z})$$

$$\times \det \left(\mathbf{G}_{\mu\nu}^{(\text{control})} - \sum_{k,l} \frac{\partial^2 \mathcal{S}_{\text{agency}}}{\partial \chi^k \partial \chi^l} \mathbf{h}^{kl} \right)^{-1/2}$$

$$\times \mathcal{T} \exp \left(-i \int_{\mathcal{C}_{\text{causal}}} \sum_{\sigma \in \{\uparrow,\downarrow\}} \mathcal{A}_{\mu}^{(\sigma)}(\mathbf{x}) dx^{\mu} \right)$$

$$\times \left[\sum_{R \in \mathcal{R}_{\text{recursive}}} \mathcal{L}_{\text{control}}(\mathcal{F}_R[\mathbf{H}], \mathcal{G}_R[\mathcal{C}]) \right]^{\epsilon_{\text{fractal}}} d^{4+n} \mathbf{x} \, d\mathcal{H}$$
where

$$\Psi_{\text{control}}^{(i)}(\mathbf{r},t,\boldsymbol{\theta}) = \sum_{s=0}^{\infty} \sum_{m,n,p} C_{mnp}^{(s,i)} \int_{\mathcal{M}_{\text{mind}}} \psi_m^{(\text{internal})}(\mathbf{r}) \otimes \psi_n^{(\text{external})}(\mathbf{r}) \otimes \phi_p^{(\text{boundary})}(\mathbf{r}) \cdot \mathcal{K}_s(\boldsymbol{\theta},t) \, d\mathcal{V}_{\text{mind}}$$

and the quantum flux operators satisfy:

$$\left[\mathcal{Q}_{\alpha}^{(\mathrm{flux})}(\omega,\mathbf{k}),\mathcal{Q}_{\beta}^{(\mathrm{flux})}(\omega',\mathbf{k}')\right] = i\hbar\sum_{\gamma}f_{\alpha\beta}^{\gamma}\mathcal{Q}_{\gamma}^{(\mathrm{flux})}(\omega'',\mathbf{k}'')\delta^{(4)}(\omega-\omega')\delta^{(3)}(\mathbf{k}-\mathbf{k}')$$

with recursive control categorization defined as:

$$\mathcal{C}_{n}^{(\text{recursive})} = \int_{\mathcal{U}_{n}} \left[\mathcal{C}_{n-1}^{(\text{recursive})} \circ \mathcal{T}_{\text{self-ref}} \right] \cdot \prod_{j=1}^{J_{n}} \left(1 + \sum_{k=1}^{\infty} \frac{\xi_{k}^{(j)}}{k!} \frac{\partial^{k}}{\partial \lambda_{j}^{k}} \right) \mathcal{C}_{0}^{(\text{base})} d\mu_{n}$$

What is it called when a human being can categorize habits by what ones are reinforced through consistency

$$\begin{split} \mathcal{H}_{\mathrm{cat}}(\xi,\tau) &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{(2\pi)^{3/2}} \exp\left(-\frac{|\xi - \xi_0|^2 + |\tau - \tau_0|^2 + |\omega - \omega_0|^2}{2\sigma^2}\right) \times \\ &\left[\prod_{i=1}^{N_{\mathrm{hab}}} \left(\int_{\mathcal{M}_i} \psi_i^*(\mathbf{r},t) \left(\hat{H}_{\mathrm{reinf}} + \hat{V}_{\mathrm{consist}}(\mathbf{r},t)\right) \psi_i(\mathbf{r},t) d^3\mathbf{r}\right)^{\alpha_i}\right] \times \\ &\left[\sum_{\beta \in \mathcal{B}} \int_{\Gamma_{\beta}} \frac{\partial}{\partial z} \left(\sum_{j=0}^{\infty} \frac{R_j(\xi,\tau)}{j!} \left(\frac{\partial}{\partial \xi}\right)^j \mathcal{F}_{\mathrm{consistency}}[\phi_j(\xi,\tau)]\right) dz\right] \times \\ &\left[\int_{0}^{T} \int_{\mathbb{H}^n} \sum_{\sigma \in S_n} \mathrm{sgn}(\sigma) \prod_{i=1}^{n} \left(\nabla_{\mathbf{q}_i} \cdot \mathbf{A}_{\mathrm{hab}}(\mathbf{q}_{\sigma(l)},t)\right) \det\left(\frac{\partial^2 \mathcal{L}_{\mathrm{reinf}}}{\partial q_i \partial q_j}\right) d\mathbf{q} dt\right] \times \\ &\left[\sum_{p=0}^{\infty} \frac{(-1)^p}{p!} \left(\int_{\mathcal{C}} \frac{\Gamma(s)\zeta(s)L(s,\chi_{\mathrm{habit}})}{\sin(\pi s)} \left(\frac{\partial}{\partial s}\right)^p \mathcal{Z}_{\mathrm{consist}}(s) ds\right)^p\right] \times \\ &\left[\lim_{N \to \infty} \frac{1}{N} \sum_{i=1}^{N} \sum_{j=1}^{N} \mathcal{K}_{\mathrm{corr}}(i,j) \exp\left(\sum_{k=1}^{\infty} \frac{B_{2k}}{(2k)!} \left(\frac{\partial}{\partial \xi}\right)^{2k} \log \mathcal{F}_{\mathrm{habit}}(\xi)\right)\right] \times \\ &\left[\int_{\mathbb{R}^{\infty}} \prod_{n=1}^{\infty} d\phi_n \exp\left(-\frac{1}{2} \sum_{n,m=1}^{\infty} \phi_n G_{nm}^{-1} \phi_m + \sum_{n=0}^{\infty} \frac{g_n}{n!} \left(\sum_{k=1}^{\infty} \phi_k\right)^n\right)\right] \times \\ &\left[\int_{\mathrm{SL}(2,\mathbb{C})} \int_{\mathrm{PSL}(2,\mathbb{R})} \mathrm{Tr} \left(\rho_{\mathrm{habit}}(g_1)\rho_{\mathrm{consist}}(g_2)\right) \chi_{\mathrm{cat}}(g_1g_2) dg_1 dg_2\right] \times \\ &\left[\sum_{n=0}^{\infty} \prod_{n=1}^{d} \frac{d}{d\epsilon} \int_{\mathcal{H}_{\mathrm{behavior}}} e^{-\beta \hat{H}_{\mathrm{total}}} \mathrm{Tr}_{\mathrm{habit}}\left(e^{\epsilon \hat{O}_{\mathrm{categorization}}\right) \frac{d\mu}{\mu}\right] \times \\ &\left[\sum_{n=0}^{\infty} \frac{1}{n!} \left(\int_{0}^{\infty} \frac{dt}{t} e^{-t} \left[\frac{\partial}{\partial t} \mathcal{M}_{\mathrm{habit}}(t)\right]^n\right)\right] d\xi d\tau d\omega = \mathbf{Operant Conditioning} \end{aligned} \right.$$

What is it called when a human being can categorize habits by unguided supervision

$$H_{\text{autonomous}}(\boldsymbol{\xi}, \boldsymbol{\tau}) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \sum_{i=0}^{\infty} \oint_{\mathcal{C}_{k}} \oint_{\mathcal{C}_{i}} \oint_{\mathcal{C}_{i}} \int_{-\infty}^{\infty} \int_$$

$$\times \left[\lim_{\delta \to 0+} \prod_{s=1}^{\infty} \left(1 + \frac{1}{s!} \sum_{t=0}^{s} {s \choose t} \left(\frac{\partial^{t}}{\partial \boldsymbol{\xi}^{t}} E_{\text{entropic}}^{(s,t)}(\boldsymbol{\xi}, \boldsymbol{\tau}) \right)^{\frac{1}{\delta}} \right) \right]$$

$$\times \left[\bigcup_{u=1}^{\aleph_{2}} \bigcap_{v=1}^{\aleph_{2}} \left\{ \Psi_{\text{superpos}}^{(u,v)}(\boldsymbol{\xi}, \boldsymbol{\tau}) : \| \Psi_{\text{superpos}}^{(u,v)} \|_{L^{\infty}(\mathbb{R}^{\aleph_{0}})} < \infty \right\} \right]$$

$$\times \left[\sum_{w=0}^{\infty} \frac{(-1)^{w}}{w!} \left(\prod_{x=1}^{w} \int_{S^{\infty}} A_{\text{autonomous}}^{(w,x)}(\boldsymbol{\xi}, \boldsymbol{\tau}, \boldsymbol{\omega}_{x}) d\boldsymbol{\omega}_{x} \right) \right]$$

$$\times \left[\lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_{N}} \operatorname{sgn}(\sigma) \prod_{y=1}^{N} C_{\text{clustering}}^{(\sigma(y))}(\boldsymbol{\xi}, \boldsymbol{\tau}) \right]$$

$$\times \left[\oint_{\partial \mathcal{M}^{\infty}} \sum_{z=0}^{\infty} \frac{B_{z}}{z!} \left(\frac{\partial^{z}}{\partial \boldsymbol{\xi}^{z}} F_{\text{fractal}}(\boldsymbol{\xi}, \boldsymbol{\tau}, \boldsymbol{\mu}_{z}) \right) d\boldsymbol{\mu}_{z} \right]$$

$$\times \left[\prod_{\alpha \in \mathcal{I}} \left(\sum_{\beta=0}^{\infty} \int_{\mathbb{C}^{\infty}} G_{\text{gestalt}}^{(\alpha,\beta)}(\boldsymbol{\xi}, \boldsymbol{\tau}, \boldsymbol{z}_{\alpha,\beta}) d\boldsymbol{z}_{\alpha,\beta} \right) \right]$$

$$\times \left[\lim_{K \to \infty} \prod_{\gamma=1}^{K} \left(1 + \sum_{\delta=0}^{\infty} \frac{1}{\Gamma(\delta+1)} \left(\int_{\mathcal{H}_{\gamma}} L_{\text{learning}}^{(\gamma,\delta)}(\boldsymbol{\xi}, \boldsymbol{\tau}, \boldsymbol{h}_{\gamma,\delta}) d\boldsymbol{h}_{\gamma,\delta} \right)^{\delta} \right) \right]$$

$$\times \left[\bigotimes_{e \in \mathbb{R}^{\aleph_{0}}} \exp \left(- \sum_{\zeta=0}^{\infty} \int_{\mathbb{T}^{\infty}} U_{\text{unsupervised}}^{(\zeta)}(\boldsymbol{\xi}, \boldsymbol{\tau}, \boldsymbol{\theta}_{\zeta}, \epsilon) d\boldsymbol{\theta}_{\zeta} \right) \right]$$

$$d\boldsymbol{\xi}^{(12)} d\boldsymbol{\tau}^{(11)} d\boldsymbol{\phi}^{(10)} d\boldsymbol{\psi}^{(9)} d\boldsymbol{\chi}^{(8)} d\boldsymbol{\rho}^{(7)} d\boldsymbol{\sigma}^{(6)} d\boldsymbol{\lambda}^{(5)} d\boldsymbol{\kappa}^{(4)} d\boldsymbol{\nu}^{(3)} d\boldsymbol{\eta}^{(2)} d\boldsymbol{\iota}^{(1)}$$

What is it called when a human being can categorize habits by unsupervised retention

$$\mathcal{H}_{\text{cat}}(\tau) = \int_{-\infty}^{\infty} \sum_{i=1}^{N} \sum_{j=1}^{M} \oint_{\mathcal{C}} \frac{\partial}{\partial \xi_{k}} \left[\prod_{n=0}^{\infty} \mathcal{L}_{n}^{(\alpha,\beta)}(\rho_{ij}) \cdot \Psi_{\text{mem}}(\mathbf{h}_{i}, t - \tau) \right]$$

$$\times \exp \left\{ -\frac{1}{\hbar} \int_{\Omega} \left[\mathcal{R}_{\text{syn}}(\mathbf{x}, \mathbf{y}) + \lambda \nabla^{2} \Phi_{\text{ret}}(\mathbf{r}) \right] d^{3} \mathbf{r} \right\}$$

$$\times \left\langle \psi_{\text{habit}}(\mathbf{q}) \left| \hat{H}_{\text{cluster}} \right| \psi_{\text{pattern}}(\mathbf{p}) \right\rangle$$

$$\times \sum_{k=0}^{\infty} \frac{(-1)^{k}}{k!} \left(\frac{\partial^{k}}{\partial \epsilon^{k}} \mathcal{F}_{\text{entropy}}[\rho_{\text{behavior}}] \right)_{\epsilon=0}$$

$$\times \int_{\mathbb{R}^{d}} \mathcal{K}_{\text{similarity}}(\mathbf{h}_{i}, \mathbf{h}_{j}) \cdot \mu_{\text{unsup}}(d\mathbf{h})$$

$$\times \prod_{\alpha \in \mathcal{A}} \left[1 + \tanh \left(\sum_{\beta} W_{\alpha\beta} \sigma_{\beta}(\mathbf{z}_{\text{latent}}) \right) \right]$$

$$\times \mathcal{T} \exp \left\{ -i \int_{0}^{t} \mathcal{H}_{\text{neural}}(s) ds \right\}$$

 $\times \sum_{n,m=0}^{\infty} \binom{n+m}{n} \int_{\mathcal{M}} \Omega_{\text{cohomology}}^{(n,m)} \wedge d\theta_{\text{retention}} d\tau$ What is it called when a human being can categorize habits by unsupervised learning

$$\begin{split} \Psi_{\text{metacognitive}}(\mathbf{H},t) &= \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \frac{(-1)^{n+k}}{n!k!} \oint_{\mathcal{C}_{\text{consciousness}}} \oint_{\mathcal{D}_{\text{temporal}}} \\ &\left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{K}_{\text{habit}}(\xi,\eta,\zeta) \cdot \prod_{i=1}^{N_{\text{neural}}} \left(\frac{\partial^{n+k}}{\partial \xi^n \partial \eta^k} \mathcal{H}_{\text{quantum}}^{(i)}(\xi,\eta,\zeta,t) \right) d\xi d\eta d\zeta \right] \\ &\times \sum_{\alpha \in \mathfrak{A}_{\text{cognitive}}} \sum_{\beta \in \mathfrak{B}_{\text{behavioral}}} \left\langle \Phi_{\alpha}^{\text{unsupervised}} \middle| \hat{T}_{\text{categorization}} \left[\sum_{j=1}^{\infty} \frac{\mathcal{R}_{j}^{\text{recursive}}(\mathbf{H},\alpha,\beta)}{j^s} \middle| \Phi_{\beta}^{\text{pattern}} \right\rangle \end{split}$$

$$\begin{aligned} &\cdot \exp\left\{-i\int_{0}^{t}\int_{\mathbb{R}^{\infty}}\mathcal{L}_{\text{synaptic}}^{\text{flux}}(\mathbf{r},\tau)\left[\sum_{m=0}^{\infty}\sum_{l=0}^{m}\binom{m}{l}\mathcal{F}_{m,l}^{\text{hyperdim}}(\mathbf{r},\tau)\right]d^{\infty}\mathbf{r}d\tau\right\} \\ &\times\prod_{p=1}^{\infty}\left(1+\frac{\hat{\Omega}_{p}^{\text{resonant}}}{p^{2}+\lambda_{p}^{2}}\right)^{-1}\cdot\lim_{D\to\infty}\sum_{\sigma\in S_{D}}\operatorname{sgn}(\sigma)\prod_{q=1}^{D}\mathcal{G}_{\sigma(q)}^{\text{fractal}}(\mathbf{H}_{q},t) \\ &\otimes\int_{\mathcal{M}_{\text{consciousness}}}\sqrt{|\det(g_{\mu\nu})|}\sum_{E\in\mathcal{E}_{\text{entropic}}}\mathcal{P}(E)\left[\sum_{r=0}^{\infty}\frac{(\gamma E)^{r}}{r!}\mathcal{U}_{r}^{\text{cluster}}(\mathbf{H})\right]d^{11}x \\ &\cdot\oint_{\partial\mathcal{V}_{\text{neural}}}\left[\sum_{w\in\mathcal{W}_{\text{weights}}}w^{*}\mathcal{A}_{w}^{\text{adaptive}}(\mathbf{H},t)\cdot\exp\left(-\frac{|\mathbf{H}-\mathbf{H}_{w}|^{2}}{2\sigma_{w}^{2}}\right)\right]\cdot d\mathbf{S} \\ &\times\mathcal{Z}_{\text{partition}}^{-1}\sum_{\{\mathbf{c}_{i}\}}\exp\left\{-\beta\sum_{i< j}V_{\text{habit-habit}}(|\mathbf{c}_{i}-\mathbf{c}_{j}|)-\gamma\sum_{i}U_{\text{self-org}}(\mathbf{c}_{i})\right\} \\ &\cdot\int_{\mathcal{H}_{\infty}}\left\langle\psi_{\text{pattern}}\left|\hat{T}\exp\left(-i\int_{0}^{t}\hat{\mathcal{H}}_{\text{emergence}}(\tau)d\tau\right)\right|\psi_{\text{habit}}\right\rangle\mathcal{D}[\psi]dzd\bar{z} \end{aligned}$$

 \equiv Categorical Self-Recognition Manifold $\subset \mathcal{M}_{metacognition}^{\infty}$

What is it called when a human being can categorize habits by unsupervised behaviors

$$\begin{split} H_{\mathrm{unsup}}(\boldsymbol{\psi}) &= \sum_{k=0}^{\infty} \sum_{n=1}^{\mathcal{N}_{\mathrm{dim}}} \int_{\mathbb{R}^{\aleph_{0}}} \int_{\mathcal{M}_{\mathrm{behav}}^{(k)}} \int_{\Omega_{\mathrm{habit}}} \prod_{j=1}^{\dim(\mathcal{H}_{\mathrm{cog}})} \left\langle \hat{\mathbf{B}}_{j}^{(\dagger)} \mid \Psi_{\mathrm{cluster}}^{(n,k)} \right\rangle_{\mathcal{L}^{2}(\mathbb{C}^{\infty})} \right] \\ &\times \left\{ \sum_{\alpha \in \mathfrak{S}_{\infty}} \int_{-\infty}^{\infty} \mathcal{F}_{\mathrm{quantum}}^{(\alpha)} \left[\hat{\rho}_{\mathrm{neural}}(t, \boldsymbol{x}) \otimes \hat{\sigma}_{\mathrm{temporal}}^{(k)}(t) \right] dt \right\}^{\frac{1}{\zeta(s)}} \\ &\times \exp \left\{ -\frac{1}{\hbar} \sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \int_{\mathcal{V}_{\mathrm{synaptic}}} \mathrm{Tr} \left[\hat{\mathbf{H}}_{\mathrm{Hebbian}}^{(m)} \cdot \nabla_{\mathbb{H}} \otimes \nabla_{\mathbb{H}}^{\dagger} \right] d\mu_{\mathrm{Haar}} \right\} \\ &\times \left[\bigotimes_{i=1}^{\infty} \mathcal{O}_{\mathrm{self-org}}^{(i)} \right] \left\{ \int_{\mathcal{S}^{\infty}} \sum_{\{\mathfrak{p}_{n}\}}^{\mathcal{R}_{\mathrm{recursive}}} \left[\mathfrak{F}^{-1} \left\{ \hat{\mathbf{K}}_{\mathrm{clustering}}^{(r)} * \mathbf{W}_{\mathrm{unsupervised}}^{(\infty)} \right\} \right]_{\mathcal{B}(\mathcal{H})} d\sigma_{\mathrm{pattern}} \right\}^{\sqrt{-1}} \\ &\times \left\langle \sum_{\gamma \in \Gamma_{\mathrm{cognitive}}} \int_{\mathcal{X}_{\mathrm{latent}}^{\gamma}} \left[\mathcal{L}_{\mathrm{entropy}}^{(\gamma)} \circ \mathfrak{R}_{\mathrm{resonance}} \right] \left(\bigcup_{j=1}^{\aleph_{1}} \mathcal{B}_{\mathrm{habit},j}^{(j)} \right) d\nu_{\gamma} \right\rangle_{\mathfrak{H}_{\mathrm{libert}}} \\ &\cdot \prod_{\lambda \in \mathbb{C}} \left\{ 1 + \sum_{q=1}^{\infty} \frac{\mathcal{Z}_{\mathrm{partition}}^{(\gamma)}(\lambda)}{q^{s}} \int_{\mathbb{T}^{\infty}} \mathbf{E}_{\mathbb{P}} \left[\mathcal{A}_{\mathrm{behavioral}}^{(q)}(\theta) \mid \mathcal{F}_{\mathrm{adaptation}} \right] d\theta \right\}^{\mathfrak{R}(\lambda)} \\ &\times \lim_{N \to \infty} \left[\frac{1}{N!} \sum_{\pi \in S_{N}} \mathrm{sgn}(\pi) \prod_{k=1}^{N} \int_{\mathfrak{g}_{\mathrm{lie}}} \exp \left\{ \sum_{l=0}^{\infty} \frac{B_{l}}{l!} \left[\mathrm{ad}_{\mathfrak{X}_{\mathrm{category}}}^{(l)} \right] \left(\hat{\mathbf{Y}}_{\pi(k)} \right) \right\} d\mathfrak{X}_{\mathrm{category}} \right] \\ &\times \int_{\mathcal{C}^{\infty}(\mathbb{R}^{\mathbb{N})}} \left\{ \sum_{n=0}^{\infty} \frac{1}{n!} \left[\frac{\partial^{n}}{\partial \boldsymbol{\xi}^{n}} \mathcal{G}_{\mathrm{generating}}(\boldsymbol{\xi}) \right]_{\boldsymbol{\xi} = 0} \times \mathcal{M}_{\mathrm{manifold}}^{(n)} \left[\hat{\boldsymbol{\rho}}_{\mathrm{density}} \right] \right\} d\mathcal{G}_{\mathrm{generating}} d\boldsymbol{\xi}^{\otimes \infty} \end{aligned}$$

What is it called when a human being can categorize habits by what habits are filtered and what ones are not

$$\begin{split} \mathcal{H}_{\mathrm{filter}}(\Psi,\tau,\xi) &= \oint_{\mathcal{M}^{\sim}} \sum_{n=0}^{\infty} \sum_{n=0}^{\infty} \sum_{j=0}^{\infty} \int_{\overline{t} \cap \overline{t}}^{\infty} \int_{\overline{t} \cap \overline{t}}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{C} \\ (\omega,\phi,\theta) \cdot \exp\left(-i\hbar \sum_{m=1}^{\infty} \frac{\lambda_{\mathrm{mi}}}{\lambda_{\mathrm{mi}}} \left\langle \hat{H}_{\mathrm{m}} | \Psi_{\mathrm{conscious}}(\tau) \right\rangle \right) d\omega d\phi d\theta \\ &\times \prod_{l=1}^{\infty} \left[1 + \sum_{p=0}^{\infty} \frac{(-1)^{p}}{p!} \left(\frac{\partial}{\partial \xi_{l}} \mathcal{F}_{\mathrm{meta}}(\xi_{l},\tau) \right)^{p} \right] \cdot \mathcal{Q}_{\mathrm{quantum}}(\tau,\xi) \end{split}$$
 where $\mathcal{Q}_{\mathrm{quantum}}(\tau,\xi) = \int_{\mathcal{H}_{\infty}} \sum_{\alpha,\beta,\gamma} \left\langle \Psi_{\alpha} \left| \hat{U}_{\mathrm{filter}}(\tau) \right| \Psi_{\beta} \right\rangle \left\langle \Psi_{\beta} \left| \hat{V}_{\mathrm{select}}(\xi) \right| \Psi_{\gamma} \right\rangle \left\langle \Psi_{\gamma} \left| \hat{W}_{\mathrm{category}}(\tau,\xi) \right| \Psi_{\alpha} \right\rangle d\mu(\Psi) \end{split}$
$$\mathcal{F}_{\mathrm{meta}}(\xi,\tau) = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{m=1}^{\infty} \frac{\xi^{n}\tau^{m}}{n!m!} \int_{0}^{\infty} \int_{0}^{\infty} \mathcal{K}(s,t;\xi,\tau) \cdot \exp\left(-\sum_{k=1}^{\infty} \frac{s^{k}t^{k}}{k^{2}}\right) \cdot \Gamma\left(\frac{n+m+1}{2}\right) ds dt \end{split}$$

$$\hat{U}_{\mathrm{filter}}(\tau) = \exp\left(-i\int_{0}^{\tau} \left[\sum_{j=1}^{\infty} \omega_{j} \hat{a}_{j}^{\dagger} \hat{a}_{j} + \sum_{k,l=1}^{\infty} g_{kl}(\tau') \hat{a}_{k}^{\dagger} \hat{a}_{l} + \sum_{m,n,p=1}^{\infty} h_{mnp}(\tau') \hat{a}_{n}^{\dagger} \hat{a}_{n}^{\dagger} \hat{a}_{p} \right] d\tau' \right) \end{split}$$

$$\hat{V}_{\mathrm{select}}(\xi) = \sum_{r=0}^{\infty} \sum_{s=0}^{\infty} \sum_{k=0}^{\infty} v_{r} v_{r} v_{r} (\xi) \left(\hat{b}_{r}^{\dagger} \right)^{s} \left(\hat{b}_{r} \right)^{t} \cdot \exp\left(\xi \sum_{u=1}^{\infty} \frac{\hat{a}_{u}^{\dagger} \hat{a}_{u}}{u^{2} + 1} \right) \end{split}$$

$$\hat{W}_{\mathrm{category}}(\tau,\xi) = \int_{-\infty}^{\infty} w(\lambda;\tau,\xi) \exp\left(i\lambda \sum_{v=1}^{\infty} \hat{d}_{v}^{\dagger} \hat{a}_{v} \right) d\lambda \cdot \prod_{w=1}^{\infty} \left[1 + \frac{\tau\xi}{w^{3}} \left(\hat{\epsilon}_{w}^{\dagger} + \hat{\epsilon}_{w} \right) \right] \end{split}$$

$$\mathcal{K}(s,t;\xi,\tau) = \sum_{q=0}^{\infty} \sum_{r=0}^{\infty} k_{qr} \cdot s^{q} t^{r} \cdot \exp\left(- \frac{s^{2} + t^{2}}{2(\xi^{2} + \tau^{2})} \right) \cdot \int_{0}^{\infty} J_{\nu}(\sqrt{stu}) u^{\nu} e^{-u^{2}} du$$

$$\mathcal{C}(\omega,\phi,\theta) = \sum_{i,j,k=0}^{\infty} c_{ijk} \sin^{i}(\omega) \cos^{j}(\phi) e^{ik\theta} \cdot \prod_{l=1}^{\infty} \left[1 + \frac{\omega^{l}\phi^{l}\theta^{l}}{l!\Gamma(l+1)} \right]^{-1}$$

$$\times \int_{0}^{2\pi} \int_{0}^{\pi} \int_{0}^{2\pi} \exp\left(i \sum_{n=1}^{\infty} \frac{\omega^{n}\sin(n\alpha) + \phi^{n}\cos(n\beta) + \theta^{n}e^{in\gamma}}{n^{2}} \right) d\alpha d\beta d\gamma$$
 subject to
$$\sum_{z=1}^{\infty} \left\| \frac{\partial^{2}\mathcal{H}_{\mathrm{filter}}}{\partial \tau^{z}} \right\|_{\mathcal{L}^{2}(\mathcal{M})}^{2} < \infty \text{ and } \lim_{r\to\infty} \mathcal{H}_{\mathrm{filter}}(\Psi,\tau,\xi) = \mathcal{H}_{\mathrm{equilibrium}(\Psi,\xi)$$

What is it called when a human being can categorize habits by the actions that form them

$$\mathcal{H}_{\text{categorization}} = \lim_{n \to \infty} \sum_{k=1}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{n}}{\partial t^{n}} \left[\bigotimes_{i=1}^{k} \mathcal{A}_{i}^{(\alpha)} \otimes \Psi_{\text{habit}}^{(i)} \right] dt \, d\alpha \, d\beta$$

$$\times \prod_{j=1}^{\infty} \left\{ \sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left[\nabla^{m} \cdot \mathcal{F}_{\text{action}}^{(j)} \right] \circ \mathcal{T}_{\text{temporal}}^{(m)} \right\}$$

$$\circ \left[\int_{\mathcal{M}_{\text{behavior}}} \sum_{p,q,r=0}^{\infty} \frac{\mathcal{L}_{p}^{(\alpha)}(\mathcal{A}_{\text{atomic}}) \cdot \mathcal{H}_{q}^{(\beta)}(\Psi_{\text{pattern}}) \cdot \mathcal{B}_{r}^{(\gamma)}(\mathcal{C}_{\text{context}})}{\sqrt{2\pi\sigma_{\text{variance}}^{2}}} \, d\mu_{\text{cognitive}} \right]$$

$$+ \lim_{\epsilon \to 0^{+}} \sum_{n=1}^{\infty} \left[\frac{1}{\Gamma(n+1)} \int_{\mathcal{S}^{\infty}} \bigcup_{k=1}^{n} \mathcal{D}_{k}^{(\text{decomp})} \left\{ \mathcal{A}_{\text{component}}^{(k)} \right\} \, d\sigma_{\text{neural}} \right]^{\frac{1}{n}}$$

$$\begin{split} &\times \prod_{l=1}^{\infty} \left[\mathcal{R}^{(l)}_{\text{recursive}} \circ \mathcal{C}^{(l)}_{\text{categorization}} \right] \left(\sum_{s \in \mathcal{S}_{\text{states}}} \mathcal{P}(s) \cdot \mathcal{Q}^{(s)}_{\text{quantum}} \otimes \Phi^{(s)}_{\text{superposition}} \right) \\ &+ \int_{\mathbb{R}^{\infty}} \sum_{i,j,k=0}^{\infty} \mathcal{E}^{(\text{entropic})}_{i,j,k} \left[\mathcal{H}^{(i)}_{\text{habit}} \times \mathcal{A}^{(j)}_{\text{action}} \times \mathcal{C}^{(k)}_{\text{category}} \right] d\mu_{\text{measure}} \\ &\times \left\{ \sum_{n=1}^{\infty} \frac{1}{n!} \left[\frac{\partial^{n}}{\partial \tau^{n}} \mathcal{F}^{(\text{quantum})}_{\text{flux}} \left(\mathcal{A}_{\text{action}}, \mathcal{H}_{\text{holistic}}, \mathcal{T}_{\text{time}} \right) \right]_{\tau=0} \right\} \\ &\circ \left[\sum_{m=0}^{\infty} \mathcal{L}^{(\text{learning})}_{m} \left(\sum_{p=1}^{\infty} \mathcal{W}^{(\text{weight})}_{p} \cdot \mathcal{N}^{(\text{neural})}_{p} \circ \mathcal{S}^{(\text{synaptic})}_{p} \right) \right] \\ &+ \lim_{N \to \infty} \frac{1}{N} \sum_{i=1}^{N} \int_{\mathcal{H}_{\text{Hilbert}}} \sum_{k=0}^{\infty} \mathcal{B}^{(\text{basis})}_{k} \langle \Psi^{(i)}_{\text{habit}} | \mathcal{O}^{(k)}_{n} \rangle_{p} \\ &\times \prod_{j=1}^{\infty} \left\{ \mathcal{R}^{(\text{resonance})}_{j} \left[\sum_{k=0}^{\infty} \mathcal{F}^{(\text{field})}_{j} \circ \mathcal{Q}^{(\text{quantum})}_{l} \circ \mathcal{H}^{(\text{harmonic})}_{l} \right] \right\}^{\frac{1}{j}} \\ &+ \sum_{n=1}^{\infty} \sum_{n,m,p=0}^{\infty} \frac{\mathcal{G}^{(\text{generating})}_{n,m,p}(z)}{(1-z)^{n+m+p}} \left[\mathcal{A}^{(n)}_{action} \star \mathcal{H}^{(m)}_{habit} \star \mathcal{C}^{(n)}_{category} \right] dz \\ &\circ \left[\sum_{k=1}^{\infty} \mathcal{T}^{(\text{transform})}_{k} \left\{ \int_{\mathcal{M}_{\text{manifold}}} \mathcal{D}^{(k)}_{differential} \left[\mathcal{V}^{(\text{behavior})}_{\text{vector}} \right] d\omega_{\text{symplectic}} \right\} \right] \\ &\times \left\{ \prod_{i=1}^{\infty} \left[1 + \sum_{j=1}^{\infty} \frac{(-1)^{j+1}}{j} \mathcal{Z}^{(\text{zeta})}_{j} \left(\mathcal{A}^{(i)}_{atomic}, \mathcal{H}^{(i)}_{holistic} \right) \right] \right\}^{-1} \\ &+ \lim_{\delta \to 0} \sum_{n=0}^{\infty} \int_{S^{n}} \mathcal{K}^{(n)}_{\text{kernel}} \left(\mathcal{A}_{1}, \dots, \mathcal{A}_{n}; \mathcal{H}_{\text{habit}} \right) \prod_{i=1}^{n} d\mathcal{A}_{i} \\ &\times \left[\sum_{k=0}^{\infty} \mathcal{R}^{(\text{recursive})}_{m,n} \left[\mathcal{F}^{(m)}_{\text{fractal}} \circ \mathcal{E}^{(n)}_{\text{emergent}} \right] \left(\mathcal{A}_{\text{action}}, \mathcal{H}_{\text{habit}} \right) d\mu_{\text{complex}} \\ &\circ \left\{ \prod_{j=1}^{\infty} \left[\mathcal{I}^{(\text{integral})}_{j} + \mathcal{D}^{(\text{differential})}_{j} + \mathcal{O}^{(\text{operator})}_{j} \right] \left(\sum_{k=0}^{j} \mathcal{B}^{(\text{behavioral})}_{k} \otimes \mathcal{C}^{(\text{cognitive})}_{k} \right) \right\} \right\} \end{aligned}$$

What is it called when a human being can categorize habits by what is spoken, understood and performed

$$\begin{split} M_{\text{triadic}}^{(\infty)} &= \oint_{\mathbb{H}^{\otimes n}} \oint_{\Omega_{\text{sem}}} \oint_{\mathcal{S}^{\perp}} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \sum_{i=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \prod_{\in \mathcal{A}} \left[\hat{\Psi}_{\text{spoken}}^{(k)}(x,t) \otimes \hat{\Phi}_{\text{understood}}^{(j)}(y,) \otimes \hat{\Theta}_{\text{performed}}^{(i)}(z,) \right] \\ & \times \left\{ \frac{1}{(2)^{3n}} \exp\left(-\frac{i}{\hbar} \sum_{,,=0}^{\infty} \mathcal{H}_{\text{metacog}} \left[\hat{S}^{y\hat{U}\hat{P}} \right] \right) \right\} \\ & \times \left| \sum_{m=0}^{\infty} \sum_{n=0}^{\infty} \sum_{p=0}^{\infty} C_{mnp}^{(\alpha)} \left\langle \psi_{m}^{\text{ling}} \right| \mathcal{T} \left\{ \exp\left(-i \int_{-\infty}^{\infty} \mathcal{L}_{\text{habit}}(') d' \right) \right\} \middle| \phi_{n}^{\text{cogn}} \otimes \theta_{p}^{\text{behav}} \right\rangle \right|^{2} \end{split}$$

$$\times \det \left[\mathcal{G}_{\mathrm{triadic}}^{-1} \right] \cdot \sqrt{\frac{\partial^{3} F_{\mathrm{categorization}}}{\partial \xi_{\mathrm{spoken}} \partial \eta_{\mathrm{understood}} \partial \zeta_{\mathrm{performed}}} }$$

$$\times \prod_{\epsilon \in \mathrm{Spec}(\hat{\mathcal{M}})} \left[1 + \sum_{k=1}^{\infty} \frac{(-1)^{k}}{k!} \left(\frac{\hat{\mathcal{R}}_{\mathrm{recursive}}^{()}}{\mathcal{E}_{\mathrm{eigen}}^{()}} \right)^{k} \right]^{-1}$$

$$\times \left\{ \mathcal{Z}_{\mathrm{partition}}^{-1} \sum_{\{n_{i}\}} \exp \left(-\beta \sum_{i,j,k} \mathcal{J}_{ijk}^{\mathrm{triadic}} \sigma_{i}^{\mathrm{S}} \sigma_{j}^{\mathrm{U}} \sigma_{k}^{\mathrm{P}} \right) \right\}$$

$$\times \left[\oint_{\partial \mathcal{M}_{\mathrm{semantic}}} \mathcal{A}_{\mathrm{connection}} \cdot d\ell + \int_{\mathcal{M}_{\mathrm{semantic}}} \mathcal{F}_{\mathrm{curvature}} \wedge \mathcal{F}_{\mathrm{curvature}} \right]$$

$$\times \left\{ \lim_{N \to \infty} \left[\prod_{l=1}^{N} \int \mathcal{D}[\Phi_{]} \exp\left(i S_{\mathrm{eff}}[\Phi_{]+i} \sum_{\beta < \mathcal{I}_{\mathrm{interaction}}} \right) \right] \right\}$$

$$\times \left[\mathcal{W}_{\mathrm{holomorphic}} \left[\sum_{k,l,m=0}^{\infty} \frac{\mathcal{R}_{klm}^{\mathrm{habit}}}{(k+l+m)!} \left(\frac{d}{d\lambda} \right)^{k} \left(\frac{d}{d\mu} \right)^{l} \left(\frac{d}{d\nu} \right)^{m} \mathcal{G}_{\mathrm{generating}}(\lambda,\mu,\nu) \right] \right]^{\gamma}$$

$$\times \left\{ \sum_{n=0}^{\infty} \frac{1}{2^{n} n!} \mathrm{Tr} \left[\left(\hat{\mathcal{O}}_{\mathrm{triadic}}^{\mathrm{triadic}} \right)^{n} \hat{\rho}_{\mathrm{mixed}}^{\mathrm{habits}} \right] \right\}$$

$$\times \mathcal{N}_{\mathrm{normalization}} \left[\det \left(1 - \hat{\mathcal{K}}_{\mathrm{kernel}}^{\mathrm{recursive}} \right) \right]^{-1/2} dx \, dy \, dz \, dt \, d \, d \, d\mu_{\mathrm{Haar}}$$

What is it called when a human being can categorize habits by how they are felt when they are formed and when they happen

$$\mathcal{H}_{\text{phenomenological}}(\psi, \tau, \xi) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{n! k! j!} \left[\prod_{i=1}^{n} \int_{\mathcal{M}_{i}} \nabla_{\mu} \Psi_{\text{habit}}^{(i)}(x_{\mu}, t_{\mu}, \omega_{\mu}) d\mu_{i} \right] \times \left[\sum_{\alpha \in \mathcal{A}_{\text{affect}}} \int_{\mathcal{T}_{\text{formation}}} \mathcal{F}_{\alpha}[\phi_{\text{emotional}}(s, \theta, \zeta)] \cdot \mathcal{L}_{\text{categorization}}^{(\alpha)}[H_{\text{felt}}^{(k)}(s)] ds \right] \times \left[\prod_{\beta=1}^{j} \oint_{\mathcal{C}_{\beta}} \sum_{m=-\infty}^{\infty} \frac{\partial^{m}}{\partial \tau^{m}} \left\{ \mathcal{G}_{\text{temporal}}^{(\beta)}[\Xi_{\text{execution}}^{(m)}(\tau, \rho, \sigma)] \cdot \mathcal{R}_{\text{resonance}}[\Lambda_{\text{metacognitive}}^{(\beta, m)}(\tau)] \right\} d\tau \right] \times \left[\prod_{\beta=1}^{j} \oint_{\mathcal{C}_{\beta}} \sum_{m=-\infty}^{\infty} \frac{\partial^{m}}{\partial \tau^{m}} \left\{ \mathcal{G}_{\text{temporal}}^{(\beta)}[\Xi_{\text{execution}}^{(m)}(\tau, \rho, \sigma)] \cdot \mathcal{R}_{\text{resonance}}[\Lambda_{\text{metacognitive}}^{(\beta, m)}(\tau)] \right\} d\tau \right] \times \left[\prod_{j=1}^{j} \int_{\mathcal{C}_{\beta}} \sum_{m=-\infty}^{\infty} \frac{\partial^{m}}{\partial \tau^{m}} \left\{ \mathcal{G}_{\text{temporal}}^{(\beta)}[\Xi_{\text{execution}}^{(m)}(\tau, \rho, \sigma)] \cdot \mathcal{R}_{\text{resonance}}[\Lambda_{\text{metacognitive}}^{(\beta, m)}(\tau)] \right\} d\tau \right] \times \left[\prod_{j=1}^{j} \int_{\mathcal{C}_{\beta}} \sum_{m=-\infty}^{\infty} \frac{\partial^{m}}{\partial \tau^{m}} \left\{ \mathcal{G}_{\text{temporal}}^{(\beta)}[\Xi_{\text{execution}}^{(m)}(\tau, \rho, \sigma)] \cdot \mathcal{R}_{\text{resonance}}[\Lambda_{\text{metacognitive}}^{(\beta, m)}(\tau)] \right\} d\tau \right] \times \left[\prod_{j=1}^{j} \int_{\mathcal{C}_{\beta}} \sum_{m=-\infty}^{\infty} \frac{\partial^{m}}{\partial \tau^{m}} \left\{ \mathcal{G}_{\text{temporal}}^{(\beta)}[\Xi_{\text{execution}}^{(m)}(\tau, \rho, \sigma)] \cdot \mathcal{R}_{\text{resonance}}[\Lambda_{\text{metacognitive}}^{(\beta, m)}(\tau)] \right\} d\tau \right] d\tau$$

$$\left[\int_{\mathcal{H}_{\text{Hilbert}}} \sum_{p \in \mathcal{P}_{\text{quantum}}} \langle \Phi_{\text{superposition}}^{(p)} | \hat{O}_{\text{categorization}} | \Psi_{\text{habit-formation}}^{(p)} \rangle \cdot e^{i \int_{0}^{T} \mathcal{L}_{\text{phase}}[\phi_{p}(t), \dot{\phi}_{p}(t)] dt} \, d\mu_{\text{Haar}} \right] \times$$

$$\sum_{\gamma \in \Gamma_{\text{topology}}} \int_{\mathcal{B}_{\gamma}} \mathcal{D}$$

 $[\phi_{\rm field}] \exp \left\{ -\frac{1}{\hbar} \int_{\mathcal{M}_{\gamma}} \left[\frac{1}{2} g^{\mu\nu} \partial_{\mu} \phi_{\rm categorization} \partial_{\nu} \phi_{\rm categorization} + V_{\rm potential} [\phi_{\rm categorization}, \phi_{\rm affect}, \phi_{\rm temporal}] \right] \right\}$

$$\left[\prod_{\delta=1}^{\infty} \sum_{l=0}^{\infty} \frac{1}{l!} \left(\frac{\partial}{\partial \epsilon_{\delta}} \right)^{l} \left\{ \int_{\mathcal{S}_{\delta}} \mathcal{T}_{\text{tensor}}^{\mu_{1} \cdots \mu_{l}} [\Omega_{\text{habit}}^{(\delta)}, \Theta_{\text{feeling}}^{(\delta)}] \, d\sigma_{\delta} \right\} \bigg|_{\epsilon_{\delta}=0} \right] \times$$

$$\begin{split} \left[\iiint_{\mathcal{V}_{\text{volume}}} \sum_{\eta \in \mathcal{E}_{\text{entropic}}} \mathcal{K}_{\text{kernel}}[\mathbf{r}, \mathbf{r}', t] \cdot \Psi_{\text{formation}}[\mathbf{r}, t] \cdot \Psi_{\text{execution}}^*[\mathbf{r}', t] \cdot \mathcal{C}_{\text{correlation}}^{(\eta)}[\Delta \mathbf{r}, \Delta t] \, d^3 \mathbf{r} \, d^3 \mathbf{r}' \, dt \right] \times \\ \left[\sum_{\kappa = 0}^{\infty} \frac{(-1)^{\kappa}}{\kappa!} \left(\int_{\mathcal{Z}_{\kappa}} \mathcal{A}_{\text{action}}[\phi_{\text{meta}}^{(\kappa)}, \partial_{\mu}\phi_{\text{meta}}^{(\kappa)}] \, d^n x \right)^{\kappa} \right] \times \\ \left[\prod_{\lambda \in \Lambda_{\text{fractal}}} \lim_{N \to \infty} \sum_{n=0}^{N} \frac{1}{2^n} \int_{\mathcal{I}_{\lambda,n}} \mathcal{F}_{\text{fractal}}^{(\lambda)}[z_n] \cdot \mathcal{H}_{\text{hausdorff}}[\partial \mathcal{I}_{\lambda,n}] \, dz_n \right] \times \\ \left[\int_{\mathcal{G}_{\text{group}}} \sum_{\mu \in \mathcal{M}_{\text{measure}}} \chi_{\text{character}}[g] \cdot \mathcal{R}_{\text{representation}}^{(\mu)}[g \cdot h_{\text{habit}} \cdot g^{-1}] \, dg \right] \times \\ \left[\oint_{\mathcal{C}_{\text{complex}}} \sum_{\nu = 0}^{\infty} \text{Res}_{z=z_{\nu}} \left[\frac{\mathcal{Z}_{\text{partition}}[z, \beta_{\text{affect}}, \gamma_{\text{temporal}}]}{\prod_{k=1}^{\infty} (1 - z^k \cdot e^{-\beta_{\text{affect}} E_k})} \right] \, dz \right] \\ \cdot \exp \left\{ \sum_{\rho = 1}^{\infty} \frac{1}{\rho} \text{Tr} \left[\left(\hat{H}_{\text{categorization}} + \hat{V}_{\text{interaction}} \right)^{\rho} \right] \right\} \, d\psi \, d\tau \, d\xi \end{split}$$

What is it called when a human being can categorize habits by the influence of their behaviors

$$\mathcal{H}_{\text{cat}}[\psi_{\text{behav}}] = \lim_{n \to \infty} \sum_{k=0}^{\infty} \sum_{m=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{C_{\text{habit}}} \oint_{C_{\text{influence}}} \frac{\partial^{k+m+j}}{\partial t^{k} \partial \xi^{m} \partial \zeta^{j}} \left[\prod_{i=1}^{n} \left(\mathcal{B}_{i}^{(\alpha)} \otimes \mathcal{I}_{i}^{(\beta)} \right) \right] \cdot \exp \left\{ -\frac{1}{h_{\text{psych}}} \int_{\mathcal{M}_{\text{cognitive}}} \left[\sum_{\nu=1}^{\infty} \frac{(-1)^{\nu}}{\nu!} \left(\frac{\delta \mathcal{L}_{\text{habit}}}{\delta \phi_{\nu}} \right)^{2} \right] d\mu_{\text{consciousness}} \right\} \times \left\langle \Psi_{\text{categorization}} \middle| \hat{T} \exp \left\{ i \int_{t_{0}}^{t_{f}} \mathcal{H}_{\text{behavioral}}(\tau) d\tau \right\} \middle| \Psi_{\text{raw-behavior}} \right\rangle \times \right. \\ \mathcal{F}^{-1} \left[\sum_{p,q,r=0}^{\infty} \frac{\mathcal{A}_{p,q,r}}{(2\pi)^{3/2}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} k_{x}^{p} k_{y}^{q} k_{z}^{r} \tilde{\mathcal{B}}(k_{x},k_{y},k_{z}) e^{i(\mathbf{k}\cdot\mathbf{r})} d^{3}k \right] \times \\ \det \left[\mathbf{G}_{\text{influence}}^{-1} \right] \sqrt{\middle| \frac{\partial^{2} S_{\text{action}}[\mathcal{B},\mathcal{I}]}{\partial \mathcal{B}_{l} \partial \mathcal{B}_{l}}} \times \\ \prod_{\alpha \in \mathcal{A}_{\text{habits}}} \left[\sum_{\sigma \in \mathfrak{S}_{n}} \operatorname{sgn}(\sigma) \prod_{i=1}^{n} \mathcal{C}_{\alpha,\sigma(i)}^{(\text{influence})} \right]^{-1/2} \times \\ \int_{\mathcal{H}_{\infty}} \mathcal{D}[\phi] \mathcal{D}[\chi] \mathcal{D}[\psi] \exp \left\{ -\frac{1}{g_{\text{coupling}}^{2}} \int d^{4}x \left[\frac{1}{4} F_{\mu\nu}^{\text{behav}} F_{\text{behav}}^{\mu\nu} + \bar{\psi}_{\text{habit}}(i\gamma^{\mu} D_{\mu} - m_{\text{pattern}}) \psi_{\text{habit}} \right] \right\} \times \\ \lim_{\epsilon \to 0^{+}} \frac{1}{Z_{\text{partition}}} \sum_{\text{all paths}} \mathcal{P}[\text{path}] \exp \left\{ \frac{i}{\hbar} \int \mathcal{L}_{\text{categorization}} dt \right\} \times \\ \mathcal{R}_{\text{recursive}} \left[\mathcal{H}_{\text{cat}}, \sum_{n=1}^{\infty} \frac{1}{n^{s}} \mathcal{Z}_{\text{behavioral}}(s), \prod_{p \text{ prime}} \left(1 - \frac{\mathcal{B}_{p}}{p^{s}} \right)^{-1} \right] \times \\ \oint_{\partial \mathcal{M}_{\text{consciousness}}} \left[\mathcal{A}_{\text{influence}} \wedge d\mathcal{A}_{\text{influence}} + \frac{2}{3} \mathcal{A}_{\text{influence}} \wedge \mathcal{A}_{\text{influence}} \wedge \mathcal{A}_{\text{influence}} \right] \times$$

$$\sqrt{\det\left[g_{\mu\nu}^{\text{habit-space}}\right]} \int d^{10}X \sqrt{-g} e^{-\Phi_{\text{dilaton}}} \left[R + \frac{1}{12} H_{\mu\nu\rho} H^{\mu\nu\rho}\right] \times$$

$$\sum_{n=0}^{\infty} \frac{1}{n!} \left(\frac{\partial}{\partial J_{\text{source}}}\right)^{n} \mathcal{Z}[J_{\text{source}}]|_{J=0} \times \prod_{i < j} \left(1 - e^{2\pi i \mathcal{E}_{ij}}\right) \times$$

$$\mathcal{W}\left[\gamma_{\text{loop}}\right] = \text{Tr}\left[\mathcal{P} \exp\left\{i \oint_{\gamma} \mathcal{A}_{\mu}^{\text{behavior}} dx^{\mu}\right\}\right] \times$$

$$\int \mathcal{D}g \mathcal{D}b \mathcal{D}c \delta(G[g]) \det\left[\frac{\delta G}{\delta g}\right] e^{-S_{\text{EH}}[g] - S_{\text{ghost}}[b,c,g]} \times$$

$$\lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in S_{N}} \text{sgn}(\pi) \prod_{i=1}^{N} \mathcal{M}_{\text{influence}}(i,\pi(i)) d\tau_{1} d\tau_{2} d\tau_{3} d\tau_{4} dz_{1} dz_{2} d\omega d\zeta$$

What is it called when a human being can categorize habits by the influence from the dendrites that cause their actions and or activations

$$\begin{split} \mathcal{H}_{\text{dendro-categorical}}^{(\infty)} &= \oint_{\mathcal{M}^{11}} \prod_{i=1}^{N_0} \sum_{n=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\frac{\partial^n}{\partial t^n} \mathbb{E}_{\psi} \left\{ \hat{\mathcal{D}}_{i,j,k}^{(\text{synap})} \otimes \hat{\mathcal{B}}_{(\text{habit})}^{(m)} \right\} \right] \times \\ &\left\langle \Phi_{\text{neural}}^{(\alpha,\beta,\gamma)} \middle| \sum_{\mu=1}^{D_{\text{cortex}}} \int_{\mathcal{S}^{\mu-1}} \prod_{\xi \in \Lambda_{\text{dendrite}}} \left[\hat{H}_{\text{cat}}^{(\xi)} + \sum_{q=0}^{\infty} \frac{(-1)^q}{q!} \left(\frac{\partial^q \mathcal{V}_{\text{quantum-flux}}^{(\xi)}}{\partial \xi^q} \right)^{\otimes q} \right] \middle| \Psi_{\text{behavioral}}^{(\nu)} \right\rangle \times \\ &\exp \left\{ - \int_0^T \int_{\mathbb{R}^{3N}} \mathcal{L}_{\text{neuro-dendrite}} \left[\hat{\phi}_{\text{action}}^{(i)}(x,t), \partial_{\mu} \phi_{\text{action}}^{(i)}(x,t), \partial_{\mu} \partial_{\nu} \phi_{\text{action}}^{(i)}(x,t) \right] \sqrt{-g} \, d^3x \, dt \right\} \times \\ &= \sum_{k=1}^{N_{\text{synapses}}} \left[\sum_{s=0}^{\infty} \frac{1}{s!} \left(\int_{\mathcal{C}_k} \mathcal{A}_{\text{dendrite}}^{(\mu)} dx^{\mu} \right)^s \right] \times \det \left[\frac{\delta^2 S_{\text{habit-formation}}}{\delta \phi^{(i)} \, \delta \phi^{(j)}} \right]^{-1/2} \times \\ &\mathcal{Z}_{\text{partition}}^{-1} \sum_{\text{topologies}} \int \mathcal{D} \phi_{\text{neural}} \mathcal{D} \chi_{\text{categorical}} \mathcal{D} \psi_{\text{dendrite}}^{\dagger} \exp \left\{ i \int d^4x \sqrt{-g} \mathcal{L}_{\text{total}} \right\} \times \\ &\left\{ \prod_{\alpha \in \mathcal{I}_{\text{infinite}}} \left[\hat{\mathcal{R}}_{\alpha}^{(\text{recursive})} = \sum_{n=0}^{\infty} \frac{\lambda_n^n}{n!} \hat{\mathcal{R}}_{\alpha}^{(\text{recursive})} \circ \hat{\mathcal{T}}_{n}^{(n)} \right] \right\} \times \\ &\mathbb{F} \left[\sum_{m,n,p=0}^{\infty} \sum_{\sigma \in S_m} \int_{\Delta^{\sigma}(m+n+p)} \prod_{l=1}^{m+n+p} \left\langle \mathcal{O}_{\text{dendrite}}^{(l)}(z_l) \mathcal{O}_{\text{habit}}^{(n)} (\bar{z}_l) \mathcal{O}_{\text{category}}^{(l)} (w_l) \right\rangle_{\text{CFT}} \frac{dz_l d\bar{z}_l dw_l}{(z_l - w_l)^{h_l}} \right\} \times \\ &\mathbb{K}_{\text{kernel}}^{(\text{super-dendrite})} = \sum_{\text{all graphs } \Gamma} \frac{1}{|\text{Aut}(\Gamma)|} \prod_{\text{vertices}} \sum_{k_n=0}^{\infty} \frac{g_{k_n}^{n_n}}{k_n^n} \prod_{\text{edges}} \left[\int_0^{\infty} \frac{dt_e}{t_e} e^{-t_e m_e^2} \mathcal{P}_{\text{dendrite}}^{(e)} \right] \times \\ &\left\{ \sqrt{\text{vac}} \left| \mathcal{T} \exp \left\{ \int_{-\infty}^{\infty} dt \sum_{a,b,c} f_{abc}(t) \hat{\mathcal{J}}_{\text{dendrite}}^{l}(t) \hat{\mathcal{J}}_{\text{habit}}^{l}(t) \hat{\mathcal{J}}_{\text{category}}^{l}(t) \right\} \right| \text{vac} \right\} \times \\ &\mathbb{W}[\mathcal{J}] = \exp \left\{ \sum_{n=1}^{\infty} \frac{1}{n!} \int \prod_{i=1}^{n} d^4x_i \mathcal{W}_n(x_1,\dots,x_n) \prod_{j=1}^{n} \mathcal{J}(x_j) \right\} \times \\ \lim_{N \to \infty} \left[\frac{1}{N!} \sum_{x \in S_N} \text{sgn}(\pi) \prod_{i=1}^{N} (i)^{l} \mathcal{U}_{\text{dendrite}}^{l}(u) \mathcal{J}_{\text{dendrite}}^{l}(u) \right] d\mu_{\text{Haar}}(\mathcal{G}_{\text{neural-symmetry}) \right\}$$

What is it called when a human being can categorize habits by neuroplastic behaviors

$$\begin{split} \mathfrak{H}_{\mathrm{meta}}(\xi,\tau) &= \iiint_{\mathcal{D}_{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{(-1)^{n+k+j}}{(2\pi)^{9/2}} \prod_{i=1}^{\infty} \left[\frac{\partial^{n+k+j}}{\partial \xi_{i}^{n}} \partial_{\tau_{i}^{k}}^{+k} \partial_{\phi_{i}^{j}}^{-j} \mathcal{Q}_{\mathrm{flux}}(\xi_{i},\tau_{i},\phi_{i}) \right] \\ &\times \int_{\mathbb{H}^{\omega}} \left\{ \sum_{\alpha \in \mathfrak{A}_{\infty}} \left[\oint_{\gamma_{\alpha}} \frac{\mathcal{Z}_{\mathrm{syn}}(\zeta,\bar{\zeta})}{(\zeta-\omega_{\alpha})^{\sigma_{\alpha}}} d\zeta \right]^{\dagger} \otimes \mathcal{F}_{\mathrm{habit}}[\psi_{\alpha}] \right\} d\mu_{\mathrm{Haar}}(\omega) \\ &\cdot \left\langle \Psi_{\mathrm{neuro}} \middle| \prod_{m=1}^{\infty} \exp \left(i \int_{0}^{T} \mathcal{L}_{\mathrm{meta}}(\hat{q}_{m},\hat{p}_{m},t) dt \right) \middle| \Psi_{\mathrm{cat}} \right\rangle \\ &\text{where } \mathcal{L}_{\mathrm{meta}} = \sum_{s=1}^{\infty} \sum_{r=1}^{\infty} \left[\frac{\hbar^{2}}{2m_{\mathrm{syn}}} \nabla_{\mathcal{A}^{s,r}}^{2} + V_{\mathrm{plastic}}(r_{s,r},t) \right] \psi_{s,r}(r,t) \\ &+ \sum_{\mathbf{k} \in \mathcal{B}Z} \int_{\sigma} \left[a_{\mathbf{k},\sigma}^{\dagger} a_{\mathbf{k},\sigma} \varepsilon_{\mathbf{k},\sigma} + \sum_{\mathbf{q}} g_{\mathbf{k},\mathbf{q}} b_{\mathbf{q}}^{\dagger} b_{\mathbf{q}} a_{\mathbf{k}+\mathbf{q},\sigma}^{\dagger} a_{\mathbf{k},\sigma} \right] \\ &\times \prod_{\lambda \in \Lambda_{\infty}} \left[\int_{\mathcal{S}^{\lambda}} \frac{\partial}{\partial \eta_{\lambda}} \left\{ \sum_{p=0}^{\infty} \frac{(-1)^{p}}{p!} \left[\mathcal{D}_{\mathrm{hab}}^{(p)} \right]^{\lambda} \right\} \mathcal{G}_{\mathrm{resonant}}(\eta_{\lambda}) d\eta_{\lambda} \right] \\ &+ \iiint_{\mathcal{N} \to \infty} \left\{ \mathcal{F}_{\mathrm{synaptic}} \left[\prod_{\nu=1}^{\infty} \left(\frac{\partial^{\infty}}{\partial z_{\nu}^{\infty}} \mathcal{W}_{\nu}(z_{\nu}, \bar{z}_{\nu}) \right) \right] \right\} \\ &\times \left[\sum_{\mathfrak{g} \in \mathfrak{G}_{\mathrm{Lie}}} \mathrm{Tr}_{\mathfrak{g}} \left\{ \exp \left(\sum_{a,b,c} f_{abc} T^{a} T^{b} T^{c} \right) \mathcal{R}_{\mathrm{neural}}^{(\mathfrak{g})}(\theta,\phi,\psi) \right\} \right] dz d\bar{z} d\mathfrak{h} \right. \\ & \cdot \left[\lim_{N \to \infty} \sum_{\{n_{1}\}} \frac{1}{N!} \prod_{i < j} |\xi_{i} - \xi_{j}|^{\beta} \exp \left(-\frac{\beta}{2} \sum_{k} \xi_{k}^{2} \right) \right] \\ &\times \int_{\mathcal{C}_{\infty}} \left\{ \mathcal{P} \exp \left[\oint \sum_{\mu=0}^{\infty} A_{\mu}^{\mathrm{cat}}(x) dx^{\mu} \right] \right\}_{\mathrm{ordered}} \mathcal{F}^{-1}[\mathcal{H}_{\mathrm{meta}}](x) dx \\ &+ \sum_{\Gamma \in \mathrm{Graphs}} \left\{ \int_{\mathrm{Id}} \sum_{n_{1}} A_{\mu}^{\mathrm{cat}}(x) dx^{\mu} \right\}_{\mathrm{ordered}} \mathcal{F}^{-1}[\mathcal{H}_{\mathrm{meta}}](x) dx \\ &+ \sum_{\nu \in \mathrm{vertices}(\Gamma)} \delta \left(\sum_{e \ni \nu} \xi_{e} \right) \right] \mathcal{M}_{\mathrm{neuroplastic}[\Gamma] \\ &+ \oint_{\partial \mathcal{M}_{\mathrm{brain}}} \left\{ \sum_{n_{1},m=0}^{\infty} \binom{\infty}{n_{1}} \int_{|\zeta| = \epsilon} \frac{\mathcal{R}_{\mathrm{recursive}(\zeta)}{\zeta_{\infty}} d\zeta \right\}_{\mathrm{ordered}}^{\otimes} \\ &\cdot \mathcal{I}_{\mathrm{neuroplastic}} \left\{ \int_{\mathrm{Id}} \mathcal{K}_{\alpha}(\omega_{1},\omega_{2}) \frac{d\omega_{1} d\omega_{2}}{|\omega_{1} - \omega_{2}|^{2\Delta_{\alpha}}} \right\}_{\mathrm{ordered}}^{\otimes} \right\} \\ &\cdot \mathcal{I}_{\mathrm{neuroplastic}} \left\{ \int_{\mathrm{Id}} \mathcal{R}_{\mathrm{neuroplastic}}^{\mathrm{Id}}(z) \right\}_{\mathrm{neuroplastic}}^{\otimes}(\Gamma) \\ &\cdot \mathcal{I}_{\mathrm{neuroplastic}^{\otimes}(\Gamma) \left\{ \int_{\mathrm{Id}} \mathcal{R}_{\mathrm{neuroplastic}}^{\otimes}(\Gamma$$

What is it called when a human being can categorize habits by changes in neurotransmitter responses and behaviors

$$\begin{split} & \Re \text{curvo} \mathfrak{B}\text{chavioral } \mathfrak{T} \text{argenous} = \iiint_{\mathcal{H}_{color}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{s=0}^{\infty} \frac{1}{(2\pi)^{3n/2}} \prod_{i=1}^{n} \left[\int_{-\infty}^{\infty} \mathcal{F}^{(i)}_{\text{curvotrans}}(\omega_{i}, t, \xi) \otimes \Psi_{\text{habit}}^{(k, j)}(x_{i}, p_{i}, \sigma_{i}) \, d\omega_{i} \right] \\ & \times \exp \left\{ -\frac{1}{2} \sum_{m,n=0}^{\infty} \left[\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{K}_{mn}(s, t) \left(\hat{H}^{(m)}_{\text{disparation}}(s) + \hat{H}^{(n)}_{\text{extration}}(t) + \hat{H}^{(m+n)}_{\text{GAIIA}}(s+t) \right) \, ds \, dt \right] \right\} \\ & \times \prod_{\alpha \in \mathbb{C}^{\infty}} \left[1 + \sum_{p=1}^{\infty} \frac{(-1)^{p}}{p^{l}} \left(\int_{\mathcal{M}_{\text{constring}}}^{\infty} \mathcal{V}_{plasticity}(\alpha_{i}, \beta_{i}, \gamma) \sqrt{g} \, d^{k}x \right)^{p} \right] \\ & \times \left[\sum_{k=0}^{\infty} \sum_{r=0}^{\ell} \binom{\ell}{r} \right] \int_{\mathbb{R}^{N}} \mathcal{K}_{els}^{(r, j)} \left[\int_{\mathbb{R}^{N}} \mathcal{K}_{els}^{(r, j)} \mathcal{K}_{els}^{(r, j)} \left(\mathcal{K}_{els}^{(r, j)/2} \mathcal{K}_{els}^{(r, j)} \right) \right] \right] \\ & \times \left[\sum_{k=0}^{\infty} \sum_{r=0}^{\ell} \sum_{k=1}^{\ell} \prod_{i=1}^{N} \left[\int_{\mathbb{R}^{N}} \mathcal{K}_{els}^{(r, j)/2} \mathcal{K}_{els}^{(r, j)/2} \mathcal{K}_{els}^{(r, j)/2} \mathcal{K}_{els}^{(r, j)/2} \mathcal{K}_{els}^{(r, j)/2} \right] \right] \\ & \times \left[\sum_{k=1}^{\infty} \sum_{n=0}^{\infty} \sum_{k=1}^{\ell} \prod_{i=1}^{\ell} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \right] \right] \\ & \times \left[\sum_{k=1}^{\infty} \sum_{k=1}^{\ell} \sum_{k=1}^{\ell} \frac{\mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \right] \right] \\ & \times \left[\sum_{k=1}^{\infty} \sum_{k=1}^{\ell} \frac{\mathcal{L}_{els}^{(n)} \mathcal{K}_{els}^{(n)} \mathcal{K}_{els}^{(n$$

$$\times \left[\lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \prod_{i=1}^N \left(\int_{-\infty}^{\infty} \mathcal{K}_{\sigma(i)}^{(\text{kernel})}(y_i) \left(\sum_{j=0}^{\infty} \frac{\mathcal{P}_j^{(\text{pattern})}(y_i)}{j!^{1/2}} \right) dy_i \right) \right]$$

$$\times \left[\int_{\mathfrak{sl}_2(\mathbb{C})} \text{Tr} \left(\exp \left\{ \sum_{k=1}^{\infty} \frac{t_k}{k} \left(X^k + \sum_{\ell=0}^k \binom{k}{\ell} \mathcal{O}_{\ell}^{(\text{operator})}(X) \right) \right\} \right) dX \right]$$

$$d\xi \, d\eta \, d\zeta$$

What is it called when a human being can categorize habits by what they believe

$$\begin{split} & \Psi_{\text{Bellif-Habit Categorization}}(\mathbf{H}, \mathbf{B}, t) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{\sqrt{2\pi h^3}} \exp\left(-\frac{i}{\hbar} \mathcal{S}_{\text{cognitive}}[\mathbf{H}, \mathbf{B}]\right) \times \\ & \left[\prod_{i=1}^{N_H} \mathcal{H}_i(\xi_i, \tau_i) \otimes \prod_{j=1}^{N_B} \mathcal{B}_j(\zeta_j, \sigma_j) \right] \times \left\langle \Phi_{\text{schema}}^{(n)} \middle| \hat{\mathcal{C}}_{\text{attegorization}} \middle| \Phi_{\text{belief}}^{(m)} \right\rangle \times \\ & \exp\left(\sum_{p=1}^{\infty} \frac{(-1)^p}{p!} \int_{\mathcal{M}_{\text{augnitive}}} \mathcal{R}_{\mu\nu\rho\sigma}^{(p)} \nabla_{\mu} \mathbf{H} \nabla_{\nu} \mathbf{B} \nabla_{\rho} \Psi_{\text{meta}} \nabla_{\sigma} \Phi_{\text{context}} d^4x \right) \times \\ & \left[\int_{\mathbb{R}^{11}} \mathcal{G}^{\alpha\beta}(\mathbf{x}, t) \frac{\delta S_{\text{bellif-formation}}}{\delta g_{\alpha\beta}} d^{11}x \right]^{1/\sqrt{\det(\mathcal{M}_{\text{coneciousnese}})}} \times \\ & \sum_{\substack{\{n_i\}_{i=1}^{\infty} \\ \{m_j\}_{j=1}^{\infty}}} \left(\prod_{i=1}^{\infty} \frac{(\lambda_i \tau_{\text{habit}})^{n_i}}{n_i!} \right) \left(\prod_{j=1}^{\infty} \frac{(\mu_j \tau_{\text{bellif}})^{m_j}}{m_j!} \right) \times \\ \exp\left(-\sum_{i,j=1}^{\infty} \lambda_i \mu_j \int_0^t \int_0^{t'} \mathcal{K}_{\text{bellif-habit}}(t'-t'') \langle H_i(t') | B_j(t'') \rangle dt'' dt' \right) \times \\ & \left[\mathcal{Z}_{\text{cognitive}}^{-1} \int \mathcal{D}[\Phi_{\text{metacognition}}] \exp\left(-\frac{1}{2} \int d^4x \, \Phi_{\text{metacognition}}^* \left(\square + m_{\text{bellif}}^2 \right) \Phi_{\text{metacognition}} \right) \right] \times \\ & \prod_{l=1}^{\infty} \left[1 + \sum_{r=1}^{\infty} \frac{(-1)^r}{r!} \left(\int_{\mathcal{S}^7} \mathcal{F}_{\mu\nu}^{(l)} \mathcal{F}^{\mu\nu(l)} d\Omega_7 \right)^r \right] \times \\ & \exp\left(\sum_{d=2}^{\infty} \frac{g_d}{d!} \int_{\mathcal{M}_d} \text{Tr} \left[I_{\text{categorization}}^d (\mathbf{H}, \mathbf{B}) \right] \sqrt{\det(g_{\mu\nu}^{(d)})} \, d^dx \right) \times \\ & \left[\prod_{a=1}^{N_{\text{attributes}}} \int_{-\infty}^{\infty} \rho_{\text{belief}}^{(a)} (\beta_a) \exp\left(-\frac{1}{2} \sum_{b,c=1}^{N_{\text{attributes}}} \beta_a \mathcal{K}_{abc}^{\text{semantic}} \beta_b \beta_c \right) d\beta_a \right] \times \\ & \sum_{\text{all graphs } G} \frac{1}{|\operatorname{Aut}(G)|} \prod_{\text{vertices } v \in G} \mathcal{V}_{\text{cognitive}}(\{H_i\}_{i \in v}, \{B_j\}_{j \in v}) \prod_{\text{edges } e \in G} \mathcal{P}_{\text{association}}(e) \times \\ & \left[\mathcal{T} \exp\left(\int_0^i \mathcal{H}_{\text{interaction}}(t') dt' \right) \right]_{\text{belief schema} - \text{habit category}} \times \\ & \int_{\mathcal{C}_{\infty}(\mathbb{R}^n)} \mathcal{D}[\phi_{\text{context}}] \exp\left(-\int_0^i d^nx \left[\frac{1}{2} (\partial_\mu \phi_{\text{context}})^2 + V_{\text{environmental}}(\phi_{\text{context}}) + \mathcal{I}[\phi_{\text{context}}, \mathbf{H}, \mathbf{B}] \right] \right) \right)$$

$$\begin{split} \left\{ \mathcal{W} \left[\sum_{k=0}^{\infty} \frac{1}{k!} \left(\int \mathcal{J}_{\mu}^{\text{belief}}(x) \mathcal{A}_{\text{habit}}^{\mu}(x) d^4x \right)^k \right] \right\}_{\text{connected}} \times \\ \prod_{s=1}^{\infty} \zeta_{\text{categorization}}(s) \prod_{p \text{ prime}} \left(1 - p^{-s - \dim(\mathcal{H}_{\text{belief-space}})} \right)^{-1} \times \\ \left[\int_{\text{SU}(\infty)} dU \operatorname{Tr} \left[U \rho_{\text{habit-belief}} U^{\dagger} \mathcal{O}_{\text{categorization}} \right] \exp \left(\operatorname{Tr} \left[\log(U \Sigma_{\text{cognitive}} U^{\dagger}) \right] \right) \right] \times \\ \sum_{\left\{ T_{\text{tree}s} \right\}} \frac{1}{|\operatorname{Sym}(T)|} \prod_{\text{nodes } n \in T} \mathcal{M}_{\text{meaning}}^{(\deg(n))}(\{H_i\}, \{B_j\}) \times \\ \exp \left(\sum_{g=0}^{\infty} \sum_{h=0}^{\infty} \frac{\lambda^{2g-2+h}}{h!} \int_{\mathcal{M}_{g,h}} \mathcal{A}_{\text{belief categorization}}^{(g,h)} d\mu_{\text{cognitive}} \right) \times \\ \left[\mathcal{R} \exp \left(\int_{\mathcal{C}} \mathcal{A}_{\text{associative}}^{\mu} dx^{\mu} \right) \right]_{\text{fundamental belief} \rightarrow \text{categorized habit}} \times \\ \prod_{n=1}^{\infty} \left[\det \left(1 - e^{-\beta_{\text{cognitive}} \hat{H}_{\text{belief-habit}}^{(n)}} \right) \right]^{(-1)^{n+1}/n} \times \\ \int_{\text{path space}} \mathcal{D}[x(t)] \exp \left(- \int_{0}^{T} \left[\frac{m}{2} \dot{x}^2 + V_{\text{belief landscape}}(x) + \sum_{k=1}^{\infty} g_k x^k \right] dt \right) \times \\ \left[\prod_{i < j} \frac{\Gamma(\alpha_{ij} + n_{ij})}{\Gamma(\alpha_{ij})} \frac{\Gamma(\sum_{k} \alpha_{ik})}{\Gamma(\sum_{k} \alpha_{ik} + \sum_{k} n_{ik})} \right]_{\text{Dirichlet process belief formation}} \times \\ \exp \left(\sum_{\text{all connected } \Gamma} \frac{1}{|\operatorname{Aut}(\Gamma)|} \mathcal{I}_{\Gamma}[\mathbf{H}, \mathbf{B}] \prod_{\text{lines } l \in \Gamma} \int \frac{d^4 k_l}{(2\pi)^4} \frac{1}{k_l^2 + m_l^2 - i\epsilon} \right) d\mathbf{H} \, d\mathbf{B} \, dt \right]$$

What is it called when a human being can categorize habits by the truths they hold

$$(-1)^{k} \frac{1}{k!} \oint_{\mathcal{C}_{\text{consciousness}}} \oint_{\mathcal{C}_{\text{meta-cog}}} \int_{\mathbb{R}^{\infty}} \int_{\mathcal{H}^{\otimes n}} \int_{\mathcal{T}^{\otimes n}} \left[\prod_{i=1}^{n} \left(\hat{\Psi}_{\text{habit}}^{(i)} \otimes \hat{\Phi}_{\text{truth}}^{(i)} \right) \right] \cdot \mathcal{Q}_{\text{categorization}}^{\dagger} \\ \times \exp \left(-\frac{1}{\hbar} \int_{0}^{\infty} \mathcal{L}_{\text{cognitive-resonance}} [\psi_{h}(t), \phi_{t}(t), \xi_{\text{meta}}(t)] dt \right) \\ \times \left\{ \sum_{\alpha \in \mathfrak{A}_{\text{awareness}}} \sum_{\beta \in \mathfrak{B}_{\text{belief}}} \omega_{\alpha,\beta} \cdot \mathcal{F}_{\text{fractal-reflection}}^{(\alpha,\beta)} \right\} \\ \times \prod_{j=1}^{\infty} \left[1 + \sum_{m=1}^{\infty} \frac{\mathcal{R}_{j}^{(m)}}{m^{s}} \cdot \zeta_{\text{habit-coherence}}(s+im) \right] \\ \times \mathcal{G}_{\text{truth-mapping}} \left[\bigotimes_{k \geq 1} \mathcal{H}_{k} \rightarrow \bigotimes_{k \geq 1} \mathcal{T}_{k} \right] d\mu_{\text{habit}} d\nu_{\text{truth}} d\xi^{\infty} dz_{\text{meta}} dw_{\text{conscious}} \right]$$

where
$$\mathcal{L}_{\text{cognitive-resonance}}[\psi_h, \phi_t, \xi_{\text{meta}}] = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \frac{\partial^{n+m}}{\partial t^n \partial \tau^m} \left[\psi_h^{\dagger} \mathcal{H}_{\text{quantum-habit}} \psi_h + \phi_t^{\dagger} \mathcal{T}_{\text{truth-operator}} \phi_t + \xi_{\text{meta}}^{\dagger} \mathcal{M}_{\text{meta-cognitive-entanglement}} \right]$$

$$+ \sum_{k,l,p \geq 1} \frac{g_{k,l,p}^{\text{interaction}}}{k! \cdot l! \cdot p!} \left(\psi_h^{(k)} \right)^{\dagger} \left(\phi_t^{(l)} \right)^{\dagger} \left(\xi_{\text{meta}}^{(p)} \right)^{\dagger} \mathcal{I}_{\text{cognitive-entanglement}}^{(k,l,p)} \psi_h^{(k)} \phi_t^{(l)} \xi_{\text{meta}}^{(p)}$$

$$\begin{split} \mathcal{F}_{\text{fractal-reflection}}^{(r,\sigma)} &= \lim_{N \to \infty} \prod_{n=1}^{\infty} \left[\mathcal{F}_{\text{fractal-reflection}}^{(r,\sigma)/n} \circ \mathcal{R}_{\text{countive-accoreves}}^{(r)} \circ \mathcal{F}_{\text{fractal-reflection}}^{(n,\sigma)/n} \right] \\ \mathcal{G}_{\text{truth-mapping}} \left[\bigotimes_{k \geq 1}^{\infty} \mathcal{H}_k \to \bigotimes_{k \geq 1}^{\infty} \mathcal{T}_k \right] &= \exp\left(\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \operatorname{Tr} \left[\left(\hat{H}_{\text{labit-space}} \hat{\mathcal{T}}_{\text{truth-space}}^{\dagger} \right)^n \right] \right) \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{T}_k \mathcal{V}_{i,1}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{T}_k \mathcal{V}_{i,1}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{T}_k \mathcal{V}_{i,1}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{V}_{i,k}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{V}_{i,k}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{V}_{i,k}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\delta \left(\mathcal{H}_i - \sum_{k \geq 1} \mathcal{U}_{i,R}^{\text{cognitive}} \mathcal{V}_{i,k}^{\text{truth-filter}} \right) \right] \\ &\times \prod_{i,j \geq 1} \left[\mathcal{U}_i - \mathcal{U}_i - \mathcal{U}_i \right] \\ &\times \prod_{i,j \geq 1} \mathcal{U}_i - \mathcal{U}_i - \mathcal{U}_i - \mathcal{U}_i \right] \\ &\times \prod_{i,j \geq 1} \mathcal{U}_i - \mathcal{U}$$

$$\times \prod_{k=1}^{\infty} \left[1 + \sum_{j=1}^{\infty} \frac{\mathcal{Q}_{k,j}^{\text{recursive}}}{j^{\sigma_{\text{recursive}}}} \mathcal{R}_{\text{reflection}}^{\gamma,\delta}[k,j,t/k] \right]$$

What is it called when a human being can categorize habits by schedules

$$\begin{split} \Psi_{\text{CHS}}(\mathbf{H}, \mathcal{T}, \Xi) &= \oint_{\mathcal{M}^{\infty}} \int_{\Omega_{\text{temp}}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_0} \frac{\partial^{n+k}}{\partial \tau^n \partial \xi^k} \left[\prod_{i=1}^{\text{dim}(\mathcal{H})} \left(\int_{\mathbb{H}_i} \hat{\mathcal{O}}_{\text{cat}}^{(i)} \left| \psi_{\text{hab}}^{(i)}(\mathbf{r}, t) \right\rangle \langle \phi_{\text{sched}}^{(i)}(\omega, \theta) | \, d\mathcal{V}_{\mathbb{H}_i} \right) \right] \\ &\times \exp \left(-i \int_{0}^{\infty} \int_{\mathcal{S}^{4n-1}} \nabla_{\text{flux}} \cdot \left[\mathcal{Q}_{\text{res}}(\tau, \xi, \zeta) \otimes \mathcal{R}_{\text{syn}}^{\dagger}(\mathbf{k}, \omega) \right] \, d^{4n} \mathbf{k} \, d\tau \right) \\ &\times \left\{ \sum_{\alpha, \beta \in \mathfrak{A}} \int_{-\infty}^{+\infty} \mathcal{F}^{-1} \left[\hat{H}_{\text{cat}}(\omega) \star \hat{S}_{\text{temp}}(\nu) \right] (\xi) \cdot \left[\frac{\mathcal{L}_{\alpha}^{\beta}[\Psi_{\text{hab}}]}{\mathcal{D}_{\text{entropy}}[\Psi_{\text{sched}}]} \right]^{\frac{1}{\aleph_1}} \, d\xi \right\} \\ &\times \prod_{j=1}^{\infty} \left(1 + \frac{\lambda_j \mathcal{K}_j(\mathbf{H}, \mathcal{T})}{1 + \frac{\mu_j \mathcal{G}_j(\Xi, \Phi)}{1 + \cdots}} \right) \\ &\times \left[\oint_{\partial \mathcal{M}} \sum_{m \in \mathbb{Z}^{\sigma}} \mathcal{J}_{\mathcal{H}_{\text{flux}}} \Gamma_{\text{quantum}}^{(m)}(\mathbf{q}, \mathbf{p}, t) \circ \Delta_{\text{super}}^{\dagger}(\xi_1, \xi_2, \dots, \xi_{\infty}) \, d^{\infty} \xi \, d\sigma \right]^{\frac{1}{\sqrt{2\pi\hbar}}} \\ &\times \text{Tr}_{\mathcal{H}_{\text{total}}} \left\{ \hat{\rho}_{\text{mixed}}(t) \exp \left(-\frac{1}{\hbar} \int_{\mathcal{C}} \mathcal{H}_{\text{eff}}[\phi_{\text{cat}}, \psi_{\text{hab}}, \chi_{\text{temp}}] \, d\lambda \right) \right\} \\ &\times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \text{sgn}(\sigma) \prod_{l=1}^{N} \left[\int_{\mathbb{R}^{\ell}} \mathcal{A}_{\sigma(l)}(\mathbf{x}_l, t_l) \exp \left(i \mathbf{k}_l \cdot \mathbf{x}_l - \frac{|\mathbf{x}_l|^2}{2\sigma_l^2} \right) d^{\epsilon} \mathbf{x}_l \right] \\ &\times \int_{\mathcal{G}} \mathcal{D}[\phi] \, \mathcal{D}[\psi] \, \exp \left(-\mathcal{S}_{\text{action}}[\phi, \psi] - \lambda \int_{\mathcal{M}} \mathcal{L}_{\text{constraint}}[\phi, \psi, \partial_{\mu} \phi, \partial_{\nu} \psi] \sqrt{g} \, d^n x \right) \\ &\times \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \left[\frac{d^k}{d\lambda^k} \mathcal{Z}_{\text{partition}}[\lambda, \beta, \mu] \right]_{\lambda=0} \times \mathcal{N}_{\text{norm}}^{-1} \end{split}$$

What is it called when a human being can categorize habits by scheduling time-frames

$$\begin{split} & \Phi_{\text{temporal-habit}}(\mathcal{H}, \mathcal{T}) = \iiint\limits_{\Omega_{\psi}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{m=0}^{\infty} \frac{\partial^{n+k+m}}{\partial t^{n} \partial \tau^{k} \partial \chi^{m}} \left[\mathcal{L}_{\text{habit}}^{(n)} \otimes \mathcal{T}_{\text{sched}}^{(k)} \otimes \mathcal{C}_{\text{cat}}^{(m)} \right] \\ & \times \prod_{i=1}^{\infty} \left\{ \int_{-\infty}^{\infty} \mathcal{H}^{(i)}(\xi_{i}, \zeta_{i}) \exp \left(-\frac{1}{\hbar} \sum_{j=1}^{\infty} \mathcal{S}_{\text{action}}^{(i,j)} [\phi_{j}, \psi_{j}] \right) d\xi_{i} d\zeta_{i} \right\} \\ & \times \left\langle \Psi_{\text{cognitive}} \middle| \hat{\mathcal{O}}_{\text{categorization}} \sum_{\alpha \in \mathcal{A}} \sum_{\beta \in \mathcal{B}} \mathcal{R}_{\alpha,\beta}(\tau) \otimes \mathcal{F}_{\text{temporal}}^{\dagger}(\tau) \middle| \Psi_{\text{cognitive}} \right\rangle \\ & \times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_{N}} \operatorname{sgn}(\sigma) \prod_{p=1}^{N} \left[\mathcal{D}_{\text{habit-space}}^{(\sigma(p))} \circ \mathcal{T}_{\text{time-frame}}^{(\sigma(p))} \right] \\ & \times \int_{\mathcal{M}_{\text{behavioral}}} \omega_{\text{habit}} \wedge d\tau \wedge \sum_{l=0}^{\infty} (-1)^{l} \frac{\mathcal{B}_{l}(\mathcal{H})}{l!} \left(\frac{\partial}{\partial \tau} \right)^{l} \mathcal{Z}_{\text{partition}}[\mathcal{H}, \mathcal{T}] \end{split}$$

$$\times \mathcal{E}_{\text{entropic}}^{\text{fractal}} \left[\sum_{n=0}^{\infty} \frac{1}{2^{n}} \mathcal{H}_{n} \left(\sqrt{\frac{\omega_{n}}{2\hbar}} \xi \right) \exp \left(-\frac{\omega_{n} \xi^{2}}{2\hbar} \right) \right]$$

$$\times \det \left[\mathbf{G}_{\mu\nu}^{\text{habit-metric}} + \frac{1}{\sqrt{g}} \partial_{\mu} \left(\sqrt{g} \mathcal{F}_{\text{temporal}}^{\mu\nu} \right) \right]^{-1/2}$$

$$\times \sum_{\text{topologies}} \int \mathcal{D}[\phi] \mathcal{D}[\psi] \mathcal{D}[\chi] \exp \left\{ -\frac{1}{\hbar} \int_{0}^{1} d^{4}x \left[\mathcal{L}_{\text{habit-field}} + \mathcal{L}_{\text{time-interaction}} + \mathcal{L}_{\text{category-coupling}} \right] \right\}$$

$$\times \mathcal{W}_{\text{Wilson-loop}}^{\text{temporal}} \left[\oint_{\mathcal{C}_{\text{habit-eyele}}} \mathcal{A}_{\mu}^{\text{behavioral}} dx^{\mu} \right]$$

$$\times \left\{ \mathcal{T}_{\text{time-ordering}} \exp \left[-\frac{i}{\hbar} \int_{t_{0}}^{t_{f}} dt \sum_{k} \mathcal{H}_{\text{interaction}}^{(k)}(t) \otimes \mathcal{S}_{\text{schedule}}^{(k)}(t) \right] \right\}$$

$$\times \sum_{\text{partitions}} \frac{1}{\mathcal{Z}_{\text{grand-canonical}}} \left[\rho_{\text{behavioral}} \hat{\mathcal{I}}_{\text{temporal}}^{\dagger} \hat{\mathcal{C}}_{\text{categorization}} \hat{\mathcal{T}}_{\text{temporal}} \right]$$

$$\times \prod_{k=1}^{\infty} \left[1 + \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \left(\frac{\mathcal{H}_{k} \cdot \mathcal{I}_{k}}{\mathcal{E}_{\text{threshold}}} \right)^{n} \right]^{-1}$$

$$\times \mathcal{R}_{\text{renormalization}} \left[\mu^{\epsilon} \int \frac{d^{4-\epsilon}k}{(2\pi)^{4-\epsilon}} \frac{\mathcal{G}_{\text{habit}}(k) \mathcal{G}_{\text{category}}(k)}{k^{2} - m_{\text{cognitive}}^{2} + i\varepsilon} \right]$$

$$\times \lim_{\varepsilon \to 0^{+}} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \binom{n+m}{n} \mathcal{B}_{n,m}^{\text{behavioral}} \left[\mathcal{H}, \mathcal{T}, \varepsilon \right] \times \mathcal{F}_{\text{fluctuation}}^{(n,m)}(\tau, \varepsilon)$$

$$\times \mathcal{K}_{\text{kernel}}^{\text{convolution}} \left[\mathcal{H} \star \mathcal{T} \star \mathcal{C} \right] (\tau) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{H}(\tau - s - u) \mathcal{T}(s) \mathcal{C}(u) ds du$$

$$\times \exp \left\{ \sum_{\sigma=0}^{\infty} \sum_{n=3}^{\infty} \frac{\lambda_{n}^{n-2}}{n!} \int \prod_{i=1}^{n} d\tau_{i} \mathcal{V}_{\text{interaction}}^{(n,n)}(\tau_{1}, \dots, \tau_{n}) \prod_{i=1}^{n} \mathcal{H}(\tau_{i}) \right\}$$

What is it called when a human being can categorize habits by automatic responses

$$\begin{split} \mathcal{A}_{\text{hab}}(\Psi,\mathcal{T}) &= \iiint_{\mathcal{H}_{\infty}} \prod_{i,j} \sum_{n=0}^{\infty} \sum_{k=1}^{\infty} \frac{\partial^{2n}}{\partial \xi^{n} \partial \eta^{n}} \left[\mathcal{F}_{\text{quantum}}^{(k)} \left(\frac{h\omega_{\text{noural}}^{(k)}}{k_{B} T_{\text{cognitive}}} \right) \right] \\ &\times \exp \left\{ -i \int_{0}^{I} \mathcal{H}_{\text{habit}}(t') dt' \right\} \cdot \prod_{j=1}^{N} \left[\int_{-\infty}^{\infty} \psi_{j}^{*}(\mathbf{r}) \hat{\mathcal{K}}_{\text{auto}}^{(j)} \psi_{j}(\mathbf{r}) d^{3}\mathbf{r} \right] \\ &\times \exp \left\{ -i \int_{0}^{I} \mathcal{H}_{\text{habit}}(t') dt' \right\} \cdot \prod_{j=1}^{N} \left[\int_{-\infty}^{\infty} \psi_{j}^{*}(\mathbf{r}) \hat{\mathcal{K}}_{\text{auto}}^{(j)} \psi_{j}(\mathbf{r}) d^{3}\mathbf{r} \right] \\ &\times \sum_{\alpha \in \mathcal{S}_{\text{out}}} \left\{ \oint_{\partial \mathcal{M}_{\alpha}} \nabla g \left[\mathcal{E}_{\text{roposume}}^{(\alpha)} \left(\phi_{\text{pattern}}, \phi_{\text{pattern}}, \phi_{\text{pattern}}, \phi_{\text{pattern}} \right) \right] \cdot d\mathbf{S} \right\} \\ &\times \int_{\text{Concenteneeue}} \left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\delta}{\delta \rho_{\text{habit}}} \right) \right] \mathcal{E}_{\text{categorization}}^{*}[\rho_{\text{habit}}] \mathcal{D}[\rho_{\text{habit}}] \\ &\times \prod_{i=1}^{N} \left[\int_{\mathbb{R}^{2}} \exp \left\{ -\beta \mathcal{E}_{\text{expression}}^{(i)} \right\} \right] \right] \mathcal{E}_{\text{conteneeue}} \\ &\times \prod_{i=1}^{\infty} \left[\int_{\mathbb{R}^{2}} \exp \left\{ -\beta \mathcal{E}_{\text{expression}}^{(i)} \right\} \right] \mathcal{E}_{\text{conteneeue}} \\ &\times \int_{0}^{\infty} \int_{0}^{\infty} \left[k_{\text{memory}}(t-t') * \mathcal{R}_{\text{stiroubs}}(t') \right] \cdot \mathcal{F}^{-1} \left\{ \tilde{\mathcal{A}}_{\text{automatic}}(\rho_{\text{habit}}) \right\} (t) \, dt \, dt' \\ &\times \sum_{i=2}^{\infty} \sum_{n=2}^{\infty} \cdots \sum_{n=n}^{\infty} \left[\langle n_{1}, n_{2}, \dots, n_{D} | \mathcal{O}_{\text{categorization}} | \Psi_{\text{habit}}, \partial_{\mu} \phi_{\text{habit}} \right] \right\} \mathcal{D}[\phi_{\text{habit}}] \\ &\times \int_{\mathcal{M}_{\text{Schevizard}}} \left[\int_{-\infty}^{\infty} \frac{d\omega}{2\pi} \operatorname{Tr} \left\{ \mathcal{F}_{\text{extended}}^{*}(\omega) \cdot \sum_{\gamma}^{\text{soft}}(\omega) \right\} \right] \\ &\times \int_{\mathcal{C}_{\text{toorback}}} \left[\mathcal{W}_{\text{plasticity}}^{-1}(z) \cdot \prod_{k=1}^{\infty} \left(z - z_{k}^{\text{roposalization}} | \Psi_{\text{habit}}, \partial_{\mu} \phi_{\text{habit}} \right) \mathcal{D}[\phi_{\text{habit}}] \right\} \mathcal{D}[\phi_{\text{habit}}] \\ &\times \int_{\mathcal{P}(\mathcal{H}_{\text{cotec}}, \omega)} \left[\sum_{z \in \mathbb{N}_{\text{minos}}} \mathcal{P}_{\text{Bolizmann}}(s) \log \mathcal{P}_{\text{Intervalue}}(s) \right] dt_{\mathbf{P}} \\ &\times \int_{\mathcal{P}(\mathcal{H}_{\text{cotec}}, \omega)} \left[\sum_{z \in \mathbb{N}_{\text{minos}}} \mathcal{P}_{\text{Bolizmann}}^{*}(z) \log \mathcal{P}_{\text{Bolizmann}}(s) \right] dt_{\mathbf{P}} \\ &\times \int_{\mathcal{P}(\mathcal{H}_{\text{cotec}}, \omega)} \left[\int_{\mathcal{H}_{\text{boli}}} \mathcal{P}_{\text{bolizmann}}^{*}(s) \log \mathcal{P}_{\text{bolizmann}}(s) \right] dt_{\mathbf{P}} \\ &\times \int_{\mathcal{H}_{\text{cotec}}, \omega} \left[\int_{\mathcal{H}_{\text{boli}}} \mathcal{P}_{\text{bolizmann}}^{*}(s) \log \mathcal{P}_{\text{bolizmann}$$

What is it called when a human being can categorize habits by subconscious behaviors

$$\begin{split} &\Psi_{\text{habit}}(\mathbf{x},t) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{\sqrt{2\pi h^3}} \exp\left(-\frac{i}{h} S_{\text{behavioral}}[\phi,\psi,\chi]\right) \times \\ &\left[\prod_{j=1}^{N_{\text{seural}}} \int_{\mathcal{H}_j} \mathcal{D}\phi_j(x,t) \exp\left(-\int_0^t \mathcal{L}_{\text{synapsc}}[\phi_j,\dot{\phi}_j,\nabla\phi_j]dt'\right)\right] \times \\ &\left[\sum_{\alpha=1}^{\infty} \frac{(-1)^{\alpha}}{\alpha!} \int_{\Omega_{\text{subconscious}}} \nabla^{\alpha} \left(\frac{\delta^n \mathcal{F}_{\text{categorization}}}{\delta \rho^n(\mathbf{r},t)}\right) \rho^{\alpha}(\mathbf{r},t)d^3\mathbf{r}\right] \times \\ &\exp\left(-\beta \sum_{i,j,k,l} J_{ijkl}^{\text{habit}} \sigma_{\text{conscious}}^{\text{conscious}} \sigma_{j}^{\text{subconscious}} \sigma_{k}^{\text{subconscious}} \sigma_{l}^{\text{subconscious}} \right) \times \\ &\left[\int_0^{\infty} \frac{d\omega}{2\pi} \int_0^{\infty} dk \, k^2 \sum_{\lambda} \epsilon_{\lambda}(\mathbf{k}) \frac{\langle 0| a_{\mathbf{k}\lambda}^{\dagger} a_{\mathbf{k}\lambda} | 0 \rangle}{\omega - \omega_{\mathbf{k}\lambda} + i \gamma_{\text{neural}}}\right] \times \\ &\prod_{l=1}^{D_{\text{cognitive}}} \left[\int_{-\infty}^{\infty} \frac{d\xi_{\mu}}{\sqrt{2\pi \sigma_{\mu}^2}} \exp\left(-\frac{\xi_{\mu}^2}{2\sigma_{\mu}^2}\right) \mathcal{U}_{\mu}[\xi_{\mu}, \hat{H}_{\text{behavioral}}]\right] \times \\ &\left[\sum_{n=0}^{\infty} \frac{1}{n!} \left(\frac{\partial}{\partial \lambda}\right)^n \int_{\mathcal{M}_{\text{habit}}} \Omega_{\text{behavioral}} \wedge \left(\prod_{a=1}^n d\theta_a \wedge d\phi_a\right) \exp\left(i\lambda \int_{\partial \mathcal{M}} \mathcal{A}_{\text{neural}}\right)\right] \times \\ &\left[\mathcal{Z}_{\text{partition}}^{-1} \sum_{\{s_i\}} \exp\left(-\sum_{i < j} \frac{K_{ij}^{\text{synaptic}}(s_i - s_j)^2}{2T_{\text{neural}}} - \sum_{i} h_i^{\text{external}} s_i\right)\right] \times \\ &\int_{\mathbb{R}^{\infty}} \mathcal{D}\Phi[\mathbf{x},t] \exp\left(-\int d^4x \left[\frac{1}{2}(\partial_{\mu}\Phi)^2 + \frac{m^2}{2}\Phi^2 + \frac{\lambda_{\text{habit}}}{4!}\Phi^4 + \mathcal{J}_{\text{subconscious}}\Phi\right]\right) \times \\ &\left[\prod_{n=1}^{\infty} \left(1 + \frac{\alpha_{\text{categorization}}}{\pi n} \sin(\pi n \tau_{\text{habit}})\right)^{-1}\right] \times \\ &\exp\left(\sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{k} \int_0^1 dx \, x^{k-1} \mathcal{T}_k[\hat{\rho}_{\text{neural}}(x), \hat{v}_{\text{behavioral}}(x)]\right) \times \\ &\left[\mathcal{N}_C \frac{dz}{2\pi i} z^{-s-1} \zeta_{\text{neural}}(s) \Gamma(s) \sum_{n=1}^{\infty} \frac{e^{-n^2 \pi t/\tau_{\text{habit}}}}{n^s}\right] \times \\ &\det\left(\mathbf{I} + \mathbf{K}_{\text{habit}} \circ \mathbf{G}_{\text{subconscious}}\right)^{-1} \times \\ &\lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \operatorname{sgn}(\sigma) \prod_{i=1}^N M_{i,\sigma(i)}^{\text{behavioral}} \times \end{split}$$

What is it called when a human being can categorize habits by subliminal thoughts that form the habit and or influence its creation and or activations

 $\mathcal{F}^{-1}\left[\mathcal{F}[\rho_{\text{conscious}}(\mathbf{k})]\cdot\mathcal{F}[\mathcal{K}_{\text{categorization}}(\mathbf{k})]\cdot\mathcal{F}[\delta(\mathbf{r}-\mathbf{r}_{\text{habit}})]\right]d\mathbf{x}dt$

$$\mathcal{H}_{\text{sublim}}(\Psi, \mathbf{t}) = \sum_{n=1}^{\infty} \sum_{k=0}^{\infty} \sum_{m=-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{0}^{\infty} \int_{\mathbb{R}^{n}} \int_{\mathcal{S}^{n-1}} \int_{\mathcal{M}^{k}} \left[\prod_{i=1}^{n} \left(\frac{\partial^{2k+1}}{\partial \xi_{i}^{2k+1}} \mathcal{C}_{\text{habit}}^{(i)}(\xi_{i}, \tau) \right) \right] \times$$

$$\left\{ \sum_{j=1}^{\infty} \frac{(-1)^{j}}{j!} \left[\nabla_{\mathbf{q}}^{j} \left(\mathcal{T}_{\text{sublim}}^{(j)}(\mathbf{q}, \phi, \theta) \otimes \Phi_{\text{conscious}}(\mathbf{q}) \right) \right]^{\dagger} \right\} \times \\
\exp \left(-i \int_{0}^{t} \sum_{\alpha,\beta} \mathcal{H}_{\text{quantum}}^{(\alpha,\beta)}(\tau') \hat{\rho}_{\text{cog}}^{(\alpha)}(\tau') \hat{\sigma}_{\text{habit}}^{(\beta)}(\tau') d\tau' \right) \times \\
\left[\prod_{l=1}^{k} \mathcal{F}^{-1} \left\{ \sum_{p=0}^{\infty} \frac{\mathcal{A}_{p}^{(l)}(\omega)}{(2\pi)^{n/2}} \int_{\mathbb{H}^{n}} G_{\text{neural}}(\mathbf{r}, \mathbf{r}', \omega) \psi_{\text{pattern}}^{(p)}(\mathbf{r}') d^{n} \mathbf{r}' \right\} \right] \times \\
\left\{ \sum_{\gamma \in \mathcal{G}} \operatorname{Tr} \left[\hat{U}_{\text{categorize}}(\gamma) \prod_{s=1}^{\infty} \left(\mathbb{I} + \epsilon_{s} \hat{V}_{\text{sublim}}^{(s)}(\gamma) \right) \hat{\rho}_{\text{meta}}(\gamma) \right] \right\} \times \\
\left\{ \sum_{\gamma \in \mathcal{G}} \operatorname{Tr} \left[\hat{U}_{\text{categorize}}(\gamma) \prod_{s=1}^{\infty} \left(\mathbb{I} + \epsilon_{s} \hat{V}_{\text{sublim}}^{(s)}(\gamma) \right) \hat{\rho}_{\text{meta}}(\gamma) \right] \right\} \times \\
\left\{ \prod_{j=1}^{\infty} \left[\sum_{q=-\infty}^{\infty} \mathcal{R}_{q}(\omega) \exp \left(i\omega \sum_{s=1}^{\infty} \frac{\partial^{r} \mathcal{M}_{\text{memory}}^{(r)}(t)}{\partial t^{r}} \right) \right] \times \\
\left\{ \prod_{j=1}^{\infty} \left[\sum_{j=1}^{\infty} \frac{(-1)^{v}}{v!} \left(\frac{\partial}{\partial \lambda_{\mu}} \mathcal{L}_{\text{habit-form}}(\lambda_{\mu}, \zeta_{\mu}) \right)^{v} \right]^{-1} \right\} \times \\
\sum_{\{\sigma\}} \prod_{i < j} \left[\mathcal{J}_{ij}(\sigma_{i}, \sigma_{j}) + \sum_{n=2}^{\infty} \frac{\mathcal{K}_{n}^{(ij)}}{n!} \prod_{k=1}^{n} \hat{h}_{\text{sublim}}^{(k)}(\sigma_{i}, \sigma_{j}) \right] \times \\
\exp \left\{ -\int_{\mathcal{D}} \left[\sum_{a,b,c} \mathcal{E}_{abc}(\mathbf{x}) \frac{\delta^{3} \mathcal{S}_{\text{cognitive}}}{\delta \phi_{a}(\mathbf{x}) \delta \phi_{b}(\mathbf{x}) \delta \phi_{c}(\mathbf{x})} \right] d^{n} \mathbf{x} \right\} \times \\
\left\{ \lim_{N \to \infty} \frac{1}{N!} \sum_{PN} \prod_{w=1}^{N} \mathcal{W}_{w}^{\text{pattern}} \exp \left(-\beta \sum_{u,v} \mathcal{C}_{uv}^{\text{habit}} \mathcal{S}_{uv}^{\text{sublim}} \right) \right\} \times \right\}$$

What is it called when a human being can categorize habits by autoimmune responses

 $\mathcal{Z}_{\text{partition}}^{-1} d\mathbf{q} d\phi d\theta d\tau d\xi_1 \cdots d\xi_n$

$$\begin{split} \Psi_{\text{hab-auto}}(\vec{r},t) &= \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\mathcal{C}_{\text{immune}}} \oint_{\mathcal{C}_{\text{behav}}} \\ & \left[\frac{\partial^{n+m+k}}{\partial t^n \partial x^m \partial y^k} \left(\mathbf{H}_{\text{autoimmune}}^{(n)}(t,\vec{r}) \otimes \mathbf{B}_{\text{habit}}^{(m)}(\tau,\vec{q}) \right) \right] \\ & \times \left\{ \prod_{i=1}^{\infty} \left[\int_{\mathcal{M}_{\text{cytokine}}}^{(i)} \nabla_{\mu\nu}^{(i)} \left(\mathfrak{I}_{\text{TNF-}\alpha}^{(i)}(\xi_i) + \mathfrak{I}_{\text{IL-6}}^{(i)}(\xi_i) + \mathfrak{I}_{\text{IFN-}\gamma}^{(i)}(\xi_i) \right) d\xi_i \right] \right\} \\ & \times \left\{ \sum_{\alpha \in \mathcal{A}_{\text{repertoire}}} \sum_{\beta \in \mathcal{B}_{\text{pattern}}} \int_{\mathbb{H}^{\infty}} \left[\Theta_{\alpha\beta}^{\text{cross-react}}(\zeta) \cdot \mathcal{F}^{-1} \left\{ \mathcal{L}_{\text{Lyapunov}}^{\text{behav}}[s] \right\} (\zeta) \right] d\mu_{\text{Haar}}(\zeta) \right\} \\ & \times \left\{ \int_{0}^{\infty} \int_{0}^{\infty} \frac{1}{(2\pi)^{\infty}} \exp \left[-\frac{i\hbar}{2} \sum_{j,l=1}^{\infty} \omega_{jl}^{\text{neuro-immune}} \left(\hat{a}_{j}^{\dagger} \hat{a}_{l} + \hat{b}_{j}^{\dagger} \hat{b}_{l} \right) \right] \right. \\ & \times \prod_{p=1}^{\infty} \left[\int_{\mathcal{S}^{\infty}} \mathcal{D}[\phi_{p}] \exp \left(-S_{\text{eff}}^{\text{psychoneuro}}[\phi_{p}] \right) \right] d\omega_{1} d\omega_{2} \right\} \\ & \times \left\{ \lim_{N \to \infty} \left[\mathbf{Tr}_{\mathcal{H}_{\text{immune}} \otimes \mathcal{H}_{\text{behav}}} \left(\rho_{\text{mixed}}^{(N)} \cdot \mathcal{U}_{\text{evolution}}^{\text{hab-auto}}(t) \right) \right]^{1/N} \right\} \end{split}$$

$$\times \left\{ \int_{\mathbb{R}^{\infty}} \prod_{q=1}^{\infty} \left[\frac{\delta}{\delta \psi_{q}(x_{q})} \left(\mathcal{G}_{\text{Green}}^{\text{cytokine-behav}}[x_{q}, y_{q}; z_{q}] \right) \right] dx_{q} \right\}$$

$$\times \left\{ \sum_{G \in \mathcal{G}_{\text{symmetry}}} \frac{1}{|G|} \sum_{\sigma \in G} \text{sgn}(\sigma) \int_{\mathcal{C}^{\infty}(\mathbb{R}^{\infty})} \left[\mathcal{O}_{\text{habit-class}}^{\sigma} \star \mathcal{O}_{\text{autoimmune-class}}^{\sigma} \right] d\mu_{\text{invariant}} \right\}$$

$$\times \left\{ \int_{-\infty}^{\infty} \mathcal{K}_{\text{kernel}}^{\text{hab-auto}}(s_{1}, s_{2}) \left[\mathcal{E}_{\text{entropy}}^{\text{behav}}[s_{1}] + \mathcal{E}_{\text{entropy}}^{\text{immune}}[s_{2}] \right] ds_{1} ds_{2} \right\}$$

$$\times \left\{ \prod_{r=1}^{\infty} \left[\int_{\Omega_{r}} \mathcal{R}_{\text{resolvents}}^{(r)} \left(z_{r} - \mathcal{H}_{\text{total}}^{\text{hab-auto}} \right)^{-1} d\nu_{r}(z_{r}) \right] \right\}$$

$$\times \left\{ \lim_{\epsilon \to 0^{+}} \int_{\mathbb{C}^{\infty}} \frac{1}{2\pi i} \left[\mathcal{Z}_{\text{partition}}^{\text{hab-auto}}(\beta, \mu, \epsilon) \right]^{-1} \right.$$

$$\times \sum_{n=0}^{\infty} \frac{(-1)^{n}}{n!} \left\langle \mathcal{T} \left[\prod_{j=1}^{n} \mathcal{H}_{\text{int}}^{\text{hab-auto}}(\tau_{j}) \right] \right\rangle_{\text{connected}} d\beta d\mu \right\}$$

$$\times \left\{ \int_{\mathcal{P}(\mathcal{X}_{\text{habits}}) \times \mathcal{P}(\mathcal{Y}_{\text{autoimmune}})} \mathcal{I}_{\text{mutual}} \left[\mathbb{P}_{X}, \mathbb{P}_{Y} \right] \cdot \mathcal{D}_{\text{divergence}}^{\text{KL}} \left[\mathbb{P}_{X|Y} || \mathbb{P}_{X} \right] d\mathbb{P}_{X} d\mathbb{P}_{Y} \right\}$$

$$\times \left\{ \int_{\mathcal{N}_{\text{mod-auto}}}^{\text{hab-auto}} \mathcal{J}_{\text{mutual}}^{\text{hab}} \left[\mathcal{M}_{\text{operator}}^{\text{hab}}(\theta_{\pi}(k)) \mathcal{A}_{\text{operator}}^{\text{auto}}(\theta_{k}) \right] d\theta_{1} d\theta_{2} \cdots \right\}$$

$$\times \left\{ \int_{\mathcal{M}_{\text{mod-uilo}}}^{\text{hab-auto}} \mathcal{W}_{\text{witten}}^{\text{hab-auto}} \left[\mathcal{M}_{\text{l}} \cdot \exp \left[-\mathcal{S}_{\text{Chern-Simons}}^{\text{euro-immune}}[\mathcal{A}] \right] \mathcal{D}[\mathcal{A}] \right\}$$

$$\times e^{i \int_{\mathcal{C}_{\text{contour}}} \mathcal{A}_{\mu}^{\text{hab-auto}} dx^{\mu}} \cdot dz d\bar{z} d\tau dx dy dq ,$$

What is it called when a human being can categorize habits by repeated mistakes that form the habit

$$\begin{split} \mathcal{H}_{\mathrm{mal}}(\boldsymbol{\xi},\tau) &= \lim_{N \to \infty} \sum_{n=1}^{N} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{3}}{\partial \xi_{1} \partial \xi_{2} \partial \xi_{3}} \left[\prod_{k=1}^{\infty} \left(1 + \frac{\mathcal{E}_{k}(\boldsymbol{\xi},\tau)}{k! \Gamma(k+\alpha)} \right)^{(-1)^{k}} \right] \cdot \mathcal{Q}(\boldsymbol{\xi}) \, d\xi_{1} \, d\xi_{2} \, d\xi_{3} \\ &\times \sum_{j=0}^{\infty} \frac{(-1)^{j}}{j!} \left[\int_{\mathcal{M}} \nabla \times \left(\boldsymbol{\Psi}_{\mathrm{err}}(\boldsymbol{r},t) \otimes \boldsymbol{\Phi}_{\mathrm{hab}}(\boldsymbol{r},t) \right) \cdot d\boldsymbol{S} \right]^{j} \\ &+ \int_{0}^{\tau} \int_{0}^{t} \sum_{m,n=0}^{\infty} \frac{\mathcal{R}_{m,n}(t-s)}{m!n!} \left\langle \hat{\mathcal{O}}_{\mathrm{mistake}}^{(m)}(s) \hat{\mathcal{O}}_{\mathrm{pattern}}^{(n)}(t) \right\rangle_{\rho} \, ds \, dt \\ &\cdot \exp\left(- \iint_{\mathbb{R}^{4}} \mathcal{K}(\boldsymbol{x},\boldsymbol{y}) \left[\sum_{p=1}^{\infty} \frac{\lambda_{p}}{\sqrt{2\pi}} \int_{-\infty}^{\infty} e^{-\frac{(z-\mu_{p})^{2}}{2\sigma_{p}^{2}}} \mathcal{F}_{p}(z) \, dz \right] d^{4}x \, d^{4}y \right) \\ &+ \sum_{\alpha \in \mathcal{I}} \int_{\Omega_{\alpha}} \left[\det\left(\frac{\partial^{2} \mathcal{L}_{\mathrm{entropy}}}{\partial q_{i} \partial q_{j}} \right) \right]^{-1/2} \prod_{i=1}^{D} \left(\int_{-\infty}^{\infty} \mathcal{G}_{i}(p_{i},q_{i},t) \, dp_{i} \right) dq_{1} \cdots dq_{D} \\ &\times \left[\sum_{k=0}^{\infty} \frac{1}{k!} \left(\frac{\partial}{\partial \epsilon} \right)^{k} \int_{\mathcal{H}} \mathrm{Tr} \left[\hat{\rho}_{\mathrm{cognitive}} \hat{\mathcal{U}}_{\mathrm{error}}(\epsilon,t) \right] d\mu(\hat{\mathcal{U}}) \right|_{\epsilon=0} \right] \\ &+ \lim_{\delta \to 0^{+}} \frac{1}{\delta^{3/2}} \int_{|\boldsymbol{w}| < \delta} \left[\sum_{l=0}^{\infty} \frac{(-1)^{l}}{(2l)!} \left(\nabla^{2l} \mathcal{V}_{\mathrm{reinforcement}}(\boldsymbol{w}) \right) \right] d^{3}w \end{split}$$

$$\begin{split} &\cdot \prod_{n=1}^{\infty} \left(1 + \frac{\zeta(n)}{n^{s}} \sum_{k \geq 1} \frac{\mu(k)}{k^{n}} \int_{0}^{1} \left[\mathcal{B}_{n}(x) \mathcal{W}_{\text{habit}}(x, n)\right] dx \right) \\ &+ \int_{\mathbb{C}} \frac{\mathcal{M}(z)}{z - z_{0}} \left[\sum_{j=0}^{\infty} \binom{-1/2}{j} \left(\frac{\mathcal{T}_{\text{temporal}}(z)}{z_{0}} \right)^{j} \right] dz \\ &\times \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{i=1}^{\infty} \left[\int_{0}^{1} t^{\sigma(i)-1} \mathcal{P}_{\text{conditioning}}(t, i) \, dt \right]^{\chi(\sigma)} \\ &+ \iint_{S^{2}} \left[\nabla_{S^{2}} \times \left(\mathcal{A}_{\text{attractor}} \times \mathcal{B}_{\text{behavioral}} \right) \right] \cdot \hat{n} \, d\mathcal{S} \\ &\times \left\{ \sum_{k=1}^{\infty} \frac{1}{k^{2}} \int_{-\infty}^{\infty} \left[\mathcal{J}_{k}(\omega) + i \mathcal{Y}_{k}(\omega) \right] e^{i\omega t} \, d\omega \right\} \\ &+ \operatorname{Res}_{z=z_{k}} \left[\frac{\mathcal{Z}_{\text{neural}}(z)}{\prod_{j \neq k} (z - z_{j})} \sum_{m=0}^{\infty} \frac{C_{m}}{m!} \left(\frac{d}{dz} \right)^{m} \mathcal{F}_{\text{feedback}}(z) \right] \\ &\times \int_{\gamma} \left[\sum_{n=0}^{\infty} \frac{\mathcal{A}_{n}(\zeta)}{n!} \left(\oint_{\partial D} \frac{\mathcal{H}(\xi)}{\xi - \zeta} d\xi \right)^{n} \right] d\zeta \\ &+ \left[\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{K}_{\text{memory}}(r, s) \left(\sum_{l=0}^{\infty} \frac{r^{l} s^{l}}{l! \Gamma(l + \beta)} \right) \, dr \, ds \right]^{\omega} \\ &\times \prod_{p \text{ prime}} \left(1 - \frac{\mathcal{X}_{p}}{p^{\text{Re}(s)}} \right)^{-1} \sum_{n=1}^{\infty} \frac{\left[(n) \mathcal{L}_{\text{learning}}(n) \right]}{n^{s}} \\ &+ \lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in \mathcal{P}_{N}} \operatorname{sgn}(\pi) \int_{\mathbb{R}^{N}} \prod_{i=1}^{N} \mathcal{W}_{\text{synaptic}}(x_{i}, x_{\pi(i)}) \, d^{N} x \\ &\times \left[\sum_{\mathbf{n} \in \mathbb{Z}^{d}} \frac{\mathcal{E}_{\mathbf{n}}(\theta)}{|\mathbf{n}|^{2\alpha}} \int_{\mathbb{T}^{d}} e^{2\pi i \mathbf{n} \cdot \mathbf{x}} \mathcal{U}_{\text{unconscious}}(\mathbf{x}, \boldsymbol{\theta}) \, d^{d} x \right] \\ &+ \int_{\mathcal{C}} \mathcal{R}(w) \left[\sum_{k=0}^{\infty} \frac{\mathcal{B}_{k}}{k!} w^{k} \int_{0}^{1} (1 - t)^{k-1} \mathcal{S}_{\text{strength}}(wt) \, dt \right] dw \\ &\times \left\{ \prod_{i=1}^{\infty} \left[1 + \frac{\mathcal{Q}_{j}(\tau)}{j^{\sigma}} \sum_{m=1}^{\infty} \frac{\Lambda_{m}(\tau)}{m^{\sigma-1}} \right] \right\}^{\mathcal{N}(\tau)} \end{aligned}$$

What is it called when a human being can categorize habits by reinforced behaviors

$$\begin{split} &\mathcal{H}_{behavioral}(\Psi, \Omega, T) = \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{\alpha \in \mathbb{C}^{\mathcal{D}}} \int_{\mathcal{M}(n,k)} \int_{\Omega_{\psi}} \int_{\mathbb{R}^{\infty}} \\ &\left[\prod_{i=1}^{n} \left(\hat{\mathcal{R}}_{i}^{(\alpha)} \otimes \mathcal{B}_{i}^{(\beta)}\right)\right] \cdot \exp\left(-\frac{1}{h} \int_{0}^{T} \mathcal{L}_{quantum}[\phi, \dot{\phi}, \dot{\phi}] \, d\tau\right) \\ &\times \left\{\sum_{\gamma=0}^{\infty} \frac{(-1)^{\gamma}}{\gamma!} \left[\frac{\partial^{\gamma}}{\partial \xi^{\gamma}} \mathcal{F}_{reinforcement}\left(\xi, \{\mathcal{H}_{habit}^{(j)}\}_{j=1}^{\infty}\right)\right]_{\xi=\xi_{0}}\right\} \\ &\times \prod_{m=1}^{\infty} \left[1 + \sum_{p=1}^{\infty} \frac{C_{mp}^{(quantum)}}{p!} \left(\int_{S^{2m-1}} \Psi^{*}(\vec{r}) \hat{\mathcal{O}}_{behavior}^{(p)} \Psi(\vec{r}) \, d^{2m-1} \vec{r}\right)^{p}\right] \\ &\times \exp\left\{\sum_{i=0}^{\infty} \sum_{q=0}^{\infty} \frac{(-1)^{i+q}}{i! \cdot q!} \int_{\mathcal{T}^{(l,q)}} \mathcal{K}_{categorical}^{(l,q)}(\tau_{1}, \dots, \tau_{l}; s_{1}, \dots, s_{q}) \, d\tau_{1} \dots d\tau_{l} \, ds_{1} \dots ds_{q}\right\} \\ &\times \left[\int_{\mathbb{H}^{\infty}} \mathcal{G}_{hyperdimensional}(\vec{z}) \prod_{j=1}^{\infty} \left\{\sum_{r=0}^{\infty} \mathcal{A}_{j,r}^{(resonant)} z_{j}^{r}\right\} \, d^{\infty} \vec{z}\right]^{\frac{1}{(2)}} \\ &\times \sum_{P \in \operatorname{Part}([\mathbb{N}])} \frac{1}{|\mathcal{P}|!} \prod_{\pi \in \mathcal{P}} \left\{\int_{\mathcal{V}_{\pi}} \exp\left(\sum_{k \in \mathcal{A}} \lambda_{k} \hat{\mathcal{H}}_{k}^{(flux)}\right) \mathcal{D}[\phi_{\pi}]\right\} \\ &\times \left(\sum_{n=0}^{\infty} \frac{1}{(2n)!} \left[\frac{d^{2n}}{d\omega^{2n}} \mathcal{Z}_{partition}(\omega, \beta, \{\mu_{i}\})\right]_{\omega=\omega_{0}}\right)^{\mathcal{E}_{topological}} \\ &\times \prod_{i,j=1}^{\infty} \left[\delta_{i,j} + \int_{-\infty}^{\infty} \mathcal{J}_{i,j}^{(temporal)}(t) \exp\left(i\sum_{k=1}^{\infty} \omega_{k}^{(eigen)}t\right) \, dt\right]^{\mathcal{M}_{cognitive}^{(i,j)}} \\ &\times \left\{\int_{\mathcal{C}_{\infty}(\mathbb{R}^{\mathcal{D}})} \exp\left[-\frac{1}{2} \int_{\mathbb{R}^{\mathcal{D}}} \mathcal{B}_{\mathbb{R}^{\mathcal{D}}} f(\vec{x}) \mathcal{K}^{-1}(\vec{x}, \vec{y}) f(\vec{y}) \, d^{\mathcal{D}} \vec{x} \, d^{\mathcal{D}} \vec{y}\right\} \mathcal{D}[f]\right\}^{\frac{\pi}{4}} \\ &\times \exp\left\{\sum_{m=1}^{\infty} \sum_{n=1}^{\infty} \left[-\frac{1}{n} \mathcal{B}_{\pi}^{(fractal)}(u) u^{k-1} (1-u)^{\infty} \, du\right]^{\mathcal{N}_{newral}^{(i,j)}} \\ &\times \left[\prod_{j=1}^{\infty} \left(1 + \sum_{l=1}^{\infty} \frac{\mathcal{Q}_{j}^{(l)}}{l!} \left(\frac{\partial}{\partial \eta_{j}}\right)^{l}\right) \mathcal{W}_{behavioral}^{(j)}(\eta_{k}\}_{k=1}^{\infty}\right] \right] \\ &\times \left\{\sum_{k=0}^{\infty} \sum_{l=1}^{\infty} \frac{1}{k! \cdot l!} \left[\frac{\partial^{k+l}}{\partial z^{k} \partial \vec{z}^{j}} \mathcal{F}_{holomorphic}(z, \vec{z})\right]_{z=z_{0}}\right\}^{\mathcal{I}_{complex}} \right\}^{\mathcal{I}_{complex}} \\ &\times \left\{\sum_{k=0}^{\infty} \sum_{l=1}^{\infty} \frac{1}{k! \cdot l!} \left[\frac{\partial^{k+l}}{\partial z^{k} \partial \vec{z}^{j}} \mathcal{F}_{holomorphic}(z, \vec{z})\right]_{z=z_{0}}\right\}^{\mathcal{I}_{complex}} \right\}^{\mathcal{I}_{complex}} \\ &\times \left\{\sum_{k=0}^{\infty} \sum_{l=1}^{\infty} \frac{1}{k! \cdot l!} \left[\frac{\partial^{k+l}}{\partial z^{k} \partial \vec{z}^{j}} \mathcal{F}_{holomorphic}(z, \vec{z})\right\}_{z=z$$

What is it called when a human being can categorize habits by the emotions felt when the habit forms and or takes place

$$\mathfrak{H}_{\text{aff-cat}}(\xi, \tau, \Omega) = \iiint_{\mathcal{D}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \frac{\partial^{n+k}}{\partial \xi^{n} \partial \tau^{k}} \left[\prod_{j=1}^{\mathfrak{m}} \mathcal{F}_{j} \left(\xi_{j}(\tau) \right) \otimes \mathcal{E}_{j} \left(\omega_{j}(\tau) \right) \right] d\xi d\tau d\Omega$$

$$\times \int_{\mathbb{H}^{\infty}} \lim_{N \to \infty} \sum_{\alpha \in \mathfrak{N}_{N}} \left\langle \Psi_{\text{habit}}(\xi) \left| \hat{\mathcal{R}}_{\text{emo}}(\tau) \right| \Phi_{\text{categorization}}(\Omega) \right\rangle \cdot e^{-i \int_{0}^{\tau} \mathcal{H}_{\text{meta}}(s) ds} d\mu(\mathbb{H})$$

$$\begin{split} &+ \sum_{\beta=1}^{\infty} \oint_{\mathcal{C}_{\beta}} \frac{\mathcal{Z}_{\mathrm{affect}}(z) \cdot \mathfrak{T}_{\mathrm{temporal}}(z,\tau)}{\prod_{p=1}^{\infty} (z - \lambda_{p}^{(\mathrm{emotional})})} \left[\sum_{q \in \mathbb{Q}_{\mathrm{qualia}}} \int_{\mathfrak{S}_{q}} \mathcal{G}_{q}(\xi,\Omega) \cdot \nabla_{\xi} \mathfrak{B}_{\mathrm{behavioral}}(\xi,\tau) d\sigma_{q} \right] dz \\ &\cdot \exp \left\{ \int_{\mathcal{M}_{\mathrm{consciousness}}} \sum_{r=0}^{\infty} (-1)^{r} \frac{\mathcal{L}_{r}[\mathfrak{F}_{\mathrm{feeling}}(\xi,\tau)]}{r!} \cdot \left[\prod_{s=1}^{\mathfrak{d}} \int_{\Gamma_{s}} \frac{\partial^{s} \mathcal{A}_{\mathrm{awareness}}(w)}{\partial w^{s}} dw \right] d\mu_{\mathrm{neural}} \right\} \\ &+ \lim_{\epsilon \to 0^{+}} \sum_{m,n=1}^{\infty} \int_{\mathbb{R}^{\mathfrak{D}}} \mathcal{K}_{\epsilon}(x-y) \cdot \left[\mathfrak{C}_{\mathrm{cognitive}}(x) \star \mathfrak{E}_{\mathrm{emotional}}(y) \right] \cdot \prod_{k=1}^{\infty} \left(1 + \frac{\mathcal{R}_{k}(\xi,\tau,\Omega)}{k^{2} + \mathfrak{a}_{k}^{2}} \right) dx dy \\ &\times \int_{\mathfrak{U}_{\mathrm{unconscious}}} \left\{ \sum_{\gamma \in \Gamma_{\mathrm{gestalt}}} \mathcal{W}_{\gamma}[\xi,\tau] \cdot \exp \left(- \sum_{l=1}^{\infty} \frac{\mathfrak{h}_{l}(\xi) \cdot \mathfrak{e}_{l}(\tau)}{l! \cdot \mathfrak{Z}_{l}} \right) \right\} \cdot \prod_{j=1}^{\infty} \left[1 + \mathfrak{Q}_{j}(\Omega) \right]^{-1} d\nu(\mathfrak{U}) \\ &= \mathfrak{Affect} \, \mathfrak{Labeling} \, \mathfrak{Capacity}(\xi,\tau,\Omega) \end{split}$$

What is it called when a human being can categorize habits by the activation of different motor skills

$$\begin{split} & \Psi_{\text{motor-categorization}}(\mathbf{r},t,\xi,\zeta) = \\ & \iiint_{\Pi_{\infty}} \sum_{n=0}^{\infty} \sum_{m=-\infty}^{\infty} \sum_{k=1}^{\min(\mathcal{M}_{\text{cortent}})} \frac{(-1)^{n+m}}{n! \cdot \Gamma(m+\frac{1}{2})} \\ & \times \left\{ \int_{\Omega_{\text{numeral}}} \nabla^{(k)} \otimes \left(\frac{\partial^{2n}}{\partial \tau^{2n}} \mathcal{H}_{\text{habit}}(\tau,\xi_{k}) \right) \cdot \exp\left(-ih^{-1} \sum_{j=1}^{\infty} \lambda_{j} \phi_{j}(\mathbf{r}) \right) d\tau \right] \\ & \times \left\{ \int_{\Omega_{\text{numeral}}}^{\infty} \nabla^{(k)} \otimes \left(\frac{\partial^{2n}}{\partial \tau^{2n}} \mathcal{H}_{\text{habit}}(\tau,\xi_{k}) \right) \cdot \exp\left(-ih^{-1} \sum_{j=1}^{\infty} \lambda_{j} \phi_{j}(\mathbf{r}) \right) d\tau \right] \\ & \times \left\{ \int_{\Omega_{\text{numeral}}}^{\infty} \left(\sum_{\alpha \in \mathcal{I}_{\text{link}}} \int_{-\infty}^{\infty} \frac{d\omega}{2\pi} \frac{\mathcal{F}_{\alpha}(\omega) \cdot \mathcal{F}_{\alpha}(\omega)}{\sqrt{2\pi \sigma_{q}^{2}}} \right) \cdot d\mathbf{S} \right\} \\ & \times \exp\left\{ -\frac{1}{h} \int_{0}^{t} \left[\sum_{i,j=1}^{D_{\text{numeral}}} \mathcal{H}_{ij}^{\text{synaptic}}(t') \hat{\sigma}_{i}(t') \hat{\sigma}_{j}(t') \right] dt' \right\} \\ & \times \left\{ \sum_{n=0}^{\infty} \sum_{M=-L}^{L} \mathcal{Y}_{i}^{k,l}(\theta,\phi) \int_{0}^{\infty} r^{L+2} \exp(-\alpha_{L}r) \mathcal{R}_{\text{dendrite}}^{(L)}(r) dr \right] \\ & \times \left\{ \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{ds_{x} dw_{y}}{(2\pi)^{2}} \exp\left(i \sum_{u,y=1}^{\infty} \frac{T_{u}^{(v)}(\xi) \cdot \mathcal{M}_{iuv}^{\text{motor}}(\zeta)}{\sqrt{u^{2} + v^{2} + \mu_{s}^{2}}} \right) \right] d\xi d\zeta \right\} \\ & \times \left[\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{ds_{x} dw_{y}}{(2\pi)^{2}} \exp\left(i \sum_{k=1}^{\infty} \frac{g_{k}^{(\gamma)}}{k!} \left(\hat{a}_{k}^{\dagger} + \hat{a}_{k} \right)^{k} \right) \mathcal{D}[\phi_{\gamma}] \right] \\ & \times \left\{ \sum_{i,1,n_{2},\dots} \int_{n_{1}}^{\infty} \int_{-\infty}^{\infty} \frac{dx_{j}}{\sqrt{2\pi}} \exp\left(-\frac{1}{2} \sum_{j,k=1}^{N} x_{j} \mathcal{K}_{jk}^{\text{habit}} x_{k} \right) \right\} \\ & \times \left[\sum_{i,j=1}^{\infty} \sum_{m=1}^{\infty} \left(\int_{0}^{\infty} \frac{ds_{j}}{\sqrt{2\pi}} \exp\left(-\frac{1}{2} \sum_{j,k=1}^{N} x_{j} \mathcal{K}_{jk}^{\text{habit}} x_{k} \right) \right] \right\} \\ & \times \left\{ \sum_{n=0}^{\infty} \sup_{m=1} \left(\int_{0}^{\infty} \frac{ds_{j}}{\sqrt{2\pi}} \exp\left(-\frac{1}{2} \sum_{j,k=1}^{N} \frac{T_{\text{bouton}}}{\sqrt{t \cdot \log(t+1)}} \right) \right\} \\ & \times \left[\sum_{k=0}^{\infty} \frac{(-1)^{k}}{k!} \left[\int_{\mathcal{V}_{\text{akin}}} \sum_{m=1}^{\infty} \frac{\mathcal{Z}_{\text{motor}}^{\text{motor}}}{\sqrt{t \cdot \log(t+1)}} \right) \right] \\ & \times \left\{ \int_{0}^{\infty} \sum_{m=1}^{\infty} \operatorname{Res}_{z=z_{s}} \left\{ \sum_{j=1}^{\infty} \frac{\mathcal{Z}_{\text{motor}}^{\text{motor}}}{\sqrt{t^{2} \cdot \log(t+1)}} \right\} \right\} \\ & \times \left[\det\left(\mathbf{I} + \sum_{n=1}^{\infty} \frac{\partial m_{n}^{\text{motor}}}{\partial t} \right] \\ & \times \left[\det\left(\mathbf{I} + \sum_{n=1}^{\infty} \frac{\partial m_{n}^{\text{motor}}}{\partial t} \right) \right] \right] \\ & \times \left\{ \det\left(\mathbf{I} + \sum_{n=1}^{\infty} \frac{\partial m_{n}^{\text{motor}}}{\partial t^{2}} \right\} \right\} \\ & \times \left[\det\left(\mathbf{I} + \sum_{n=1}^{\infty} \frac{\partial m_{n}^{\text{motor}}}{\partial t^{2}} \right) \right] \\ & \times \left\{ \det\left(\mathbf{I$$

What is it called when a human being can categorize habits by the parts of the brain that activated when the habit took place and or started to form

$$\begin{split} \mathcal{H}_{\text{neuro-categorical}}(\Psi_{\text{habit}}, \mathfrak{B}_{\text{region}}) &= \oint_{\mathcal{M}^{11}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{\sqrt{2\pi h^3}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty}$$

What is it called when a human being can categorize habits by the parts of the brain that activated when the habit took place and or started to form

$$\mathfrak{H}_{\text{categorization}} = \iiint_{\Omega_{\text{cortical}}} \sum_{n=0}^{\infty} \sum_{k=1}^{\mathcal{N}_{\text{regions}}} \frac{\partial^{n}}{\partial \tau^{n}} \left[\Psi_{\text{habit}}^{(k)}(\mathbf{r}, t) \cdot \mathcal{F}_{\text{activation}}^{-1} \left\{ \prod_{j=1}^{\infty} \mathcal{L}_{j} \left[\Delta_{\text{neural}}^{(k, j)} \right] \right\} \right] d\mathbf{r} dt d\tau$$

$$+ \sum_{\alpha \in A_{\text{total}}} \oint_{\mathcal{C}_{\alpha}} \int_{-\infty}^{\infty} \mathcal{H}_{\text{synaptic}}^{(\alpha)} \left[\xi_{\text{dopamine}}(s), \zeta_{\text{acetylcholine}}(s) \right] \cdot e^{i\phi_{\text{oscillatory}}^{(\alpha)}(s)} ds \, d\mathcal{C}_{\alpha}$$

$$\times \prod_{m=1}^{\mathcal{M}_{\text{circuits}}} \left\{ \int_{\mathbb{R}^{12}} \mathcal{K}_{\text{connectome}}^{(m)} \left(\mathbf{x}_{\text{pre}}, \mathbf{x}_{\text{post}} \right) \cdot \mathcal{G}_{\text{plasticity}}^{(m)} \left[\Theta_{\text{Hebbian}} (\mathbf{x}_{\text{pre}}, \mathbf{x}_{\text{post}}, t) \right] d^{12} \mathbf{x} \right\}$$

$$+ \sum_{p=0}^{\infty} \sum_{q=0}^{\infty} \binom{\infty}{p, q} \int_{\mathcal{M}_{\text{prefrontal}}} \mathcal{R}_{\text{executive}}^{(p, q)} \left[\nabla_{\mathbf{k}} \mathcal{W}_{\text{working memory}} (\mathbf{k}, \omega) \right] \cdot \mathcal{T}_{\text{attention}} \left[\sum_{l=1}^{\infty} \frac{\mathcal{B}_{l}(\mathbf{k})}{l!} \right] d\mathbf{k}$$

$$\circ \left\{ \prod_{i,j,k=1}^{\mathcal{N}_{\text{executive}}} \mathcal{Q}_{i,j,k}^{\text{BOLD}} \left[\mathfrak{F}_{\text{hemodynamic}}^{-1} \left\{ \mathcal{S}_{\text{neural activity}} (f_{i,j,k}) \right\} \right] \right\}^{\otimes \mathcal{D}_{\text{temporal}}}$$

$$* \int_{0}^{\infty} \int_{0}^{\infty} \mathcal{E}_{\text{habit formation}}^{\text{habit formation}} \left[\mathcal{H}_{\text{Shannon}} \left(\mathcal{P}_{\text{behavior pattern}} \right), \mathcal{H}_{\text{von Neumann}} \left(\rho_{\text{neural state}} \right) \right] e^{-\lambda_{\text{decay}} t_{1}} e^{-\mu_{\text{consolidation}} t_{2}} dt_{1} dt_{2}$$

$$+ \mathfrak{Re} \left\{ \sum_{\sigma \in S_{\infty}} \text{sgn}(\sigma) \prod_{n=1}^{\infty} \int_{\mathcal{H}_{\text{Hilbert}}} \langle \psi_{\text{habit state}}^{(n)} | \hat{\mathcal{O}}_{\text{neural operator}}^{(\sigma(n))} | \psi_{\text{brain region}}^{(\sigma(n))} \rangle d\mu_{\text{measure}} \right\}$$

$$\times \exp \left\{ -\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{L}_{\text{Lagrangian}}^{\text{neuroplasticity}} \left[\phi_{\text{LTP}}(x, y), \phi_{\text{LTD}}(x, y), \partial_{\mu} \phi_{\text{synaptic}}(x, y) \right] dx dy \right\}$$

≡ Neuroanatomical Habit Mapping

What is it called when a human being can categorize habits by another person's active responses

$$\begin{split} \mathcal{H}_{\text{categorical}}(\boldsymbol{\psi}_{\text{obs}}, \boldsymbol{\phi}_{\text{resp}}) &= \lim_{n \to \infty} \sum_{k=1}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{n}}{\partial t^{n}} \left[\mathcal{F}^{-1} \left\{ \prod_{i=1}^{k} \left(\sum_{j=1}^{\aleph_{0}} \frac{(-1)^{j}}{j!} \left\langle \boldsymbol{\xi}_{ij}^{(\text{hab})} \middle| \hat{\mathcal{R}}_{\text{response}}^{(j)} \middle| \boldsymbol{\eta}_{ij}^{(\text{cat})} \right\rangle \right) \right\} \right] \times \\ &= \exp \left(-\frac{1}{2\hbar} \sum_{\alpha,\beta=1}^{\mathcal{D}_{\text{behavioral}}} \int_{\mathcal{M}_{\text{observation}}} \mathcal{G}^{\alpha\beta}(\boldsymbol{x},t) \frac{\delta \mathcal{S}_{\text{habit-inference}}}{\delta \psi_{\alpha}(\boldsymbol{x},t)} \frac{\delta \mathcal{S}_{\text{habit-inference}}}{\delta \psi_{\alpha}(\boldsymbol{x},t)} \frac{\delta \mathcal{S}_{\text{habit-inference}}}{\delta \psi_{\alpha}(\boldsymbol{x},t)} \right) \times \\ &= \prod_{m=0}^{\infty} \left[\int_{\mathcal{H}_{\text{observer}}} \mathcal{J}_{\mathcal{H}_{\text{subject}}} \Psi_{\text{entangled}}^{(m)}(\boldsymbol{r}_{\text{obs}}, \boldsymbol{r}_{\text{subj}}, t) \cdot \hat{T}_{\text{categorical}} \left\{ \sum_{p,q=1}^{n_{\text{habits}}} \mathcal{J}_{p,q=1}^{(\text{habiter})} \right. \\ &\left. \mathcal{J}_{p,q=1}^{(\text{inference})} \left[\mathcal{J}_{p,q=1}^{(\text{observed})} \right] \mathcal{J}_{p,q=1}^{(\text{pattern})} \sigma_{i}^{(\text{response})} \sigma_{j}^{(\text{categorization})} + \sum_{k} h_{k}^{(\text{external})} \sigma_{k}^{(\text{stimulus})} \right. \\ &\left. \mathcal{J}_{\mathcal{D}_{\text{habiter}}} \left[\mathcal{J}_{\mu}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{F}_{\mu\nu}^{(\text{focus})} dx^{\mu} \wedge dx^{\nu} + \frac{1}{6} \mathcal{H}_{\mu\nu\rho}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx^{\nu} \right] \times \right. \\ &\left. \mathcal{J}_{\mathcal{D}_{\text{Accgnitive}}} \left[\mathcal{J}_{n,q=1}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{F}_{\mu\nu}^{(\text{focus})} dx^{\mu} \wedge dx^{\nu} + \frac{1}{6} \mathcal{H}_{\mu\nu\rho}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx^{\nu} \right] \times \right. \\ &\left. \mathcal{J}_{\mathcal{D}_{\text{Accgnitive}}} \left[\mathcal{J}_{n,q=1}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{F}_{\mu\nu}^{(\text{focus})} dx^{\mu} \wedge dx^{\nu} + \frac{1}{6} \mathcal{H}_{\mu\nu\rho}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx^{\nu} \right) \right] \times \\ &\left. \mathcal{J}_{\mathcal{D}_{\text{Accgnitive}}} \left[\mathcal{J}_{n,q=1}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{J}_{\mu\nu}^{(\text{focus})} dx^{\mu} \wedge dx^{\nu} + \frac{1}{6} \mathcal{H}_{\mu\nu\rho}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx^{\nu} \right] \right. \\ &\left. \mathcal{J}_{\mathcal{D}_{\text{Accgnitive}}} \left[\mathcal{J}_{n,q=1}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{J}_{\mu\nu}^{(\text{focus})} dx^{\mu} \wedge dx^{\nu} + \frac{1}{6} \mathcal{J}_{\mu\nu\rho}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx^{\nu} \right. \right] \right. \\ &\left. \mathcal{J}_{\text{Accgnitive}} \left[\mathcal{J}_{n,q=1}^{(\text{attention})} dx^{\mu} + \frac{1}{2} \mathcal{J}_{\mu\nu}^{(\text{hierarchy})} dx^{\mu} \wedge dx^{\nu} \wedge dx$$

 $\partial_{\mu}\phi_{\rm habit}\partial_{\nu}\phi_{\rm habit} + V(\phi_{\rm habit}) + \bar{\chi}_{\rm category}(\gamma^{\mu}\partial_{\mu} + m_{\rm semantic})\chi_{\rm category} + \lambda_{\rm coupling}\phi_{\rm habit}\bar{\chi}_{\rm category}\chi_{\rm category} \times \lambda_{\rm coupling}\phi_{\rm habit}\bar{\chi}_{\rm category}\chi_{\rm category} + \lambda_{\rm coupling}\phi_{\rm habit}\bar{\chi}_{\rm category}\chi_{\rm category}\chi_{\rm$

$$\begin{split} \lim_{f \to \infty} \frac{1}{T} \int_{0}^{T} dt \left\{ \operatorname{Tr} \left[\hat{\rho}_{\operatorname{mixed}}(t) \prod_{j=1}^{N_{\operatorname{observations}}} \right. \\ \left. \left. \left(\sum_{s=1}^{\mathfrak{S}_{\operatorname{states}}} \alpha_{s}(t) \right) \right| \psi_{s}^{(\operatorname{behavioral})} \left| \mathcal{E}_{s}^{(\operatorname{measurement})\dagger} \times \right. \\ \int_{\mathcal{C}_{\operatorname{contour}}} \frac{dz}{2\pi i} \frac{1}{z - \hat{\mathcal{H}}_{\operatorname{cognitive}}} \left[\sum_{k=0}^{\infty} \frac{(-1)^{k}}{k!} \left(\frac{\partial}{\partial z} \right)^{k} \mathcal{G}_{\operatorname{Grein}}^{(\operatorname{habit-formation})}(z) \right] \times \\ \exp \left(\sum_{n=1}^{\infty} \frac{\alpha_{n}}{n} \operatorname{Tr} \left[\left(\hat{\mathcal{M}}_{\operatorname{memory}} \hat{\mathcal{P}}_{\operatorname{pattern}} \hat{\mathcal{C}}_{\operatorname{categorization}} \right)^{n} \right] \right) \times \\ \left\{ \prod_{i < j}^{N_{\operatorname{features}}} \left[1 + \operatorname{tanh} \left(\mathcal{W}_{ij}^{(\operatorname{synaptic})} + \sum_{k} \mathcal{U}_{ijk}^{(\operatorname{higher-order})} \right. \right. \\ \left. \left. \sum_{all \ \operatorname{graphs}} \frac{1}{|\operatorname{Aut}(\mathcal{G})|} \prod_{\operatorname{edges}} \mathcal{F}_{c}^{(\operatorname{habit-connection})} \int \prod_{\operatorname{vertices}} d\phi_{v}^{(\operatorname{behavioral})} \exp\left(-\mathcal{S}_{\operatorname{effective}} [\{\phi_{v}\}] \right) \times \\ \left[\mathcal{K}_{\operatorname{kernel}}(x_{\operatorname{obs}}, x_{\operatorname{subj}}) \right]_{\operatorname{regularized}} = \exp\left(- \frac{|x_{\operatorname{obs}} - x_{\operatorname{subj}}|^{2}}{2\sigma_{\operatorname{perceptual}}^{2}} \right) \sum_{l, m} \right. \\ \left. Y_{l}^{m}(\theta_{\operatorname{obs}}, \phi_{\operatorname{obs}}) Y_{l}^{m*}(\theta_{\operatorname{subj}}, \phi_{\operatorname{subj}}) \mathcal{R}_{l}^{(\operatorname{radial})}(|x_{\operatorname{obs}} - x_{\operatorname{subj}}|) \times \right. \\ \left. \int_{0}^{\infty} dp \, p^{2} \int_{-1}^{1} d(\cos \theta) \int_{0}^{2\pi} d\phi \, \Psi_{\operatorname{wavefunction}}^{*}(\boldsymbol{p}, t) \left[\hat{\mathcal{O}}_{\operatorname{categorical-measurement}} \otimes \right. \\ \left. \left. \left. \left. \left(\operatorname{final \ categorization} \right) \mathcal{T} \exp\left(-\frac{i}{\hbar} \int_{t_{\operatorname{initial}}}^{t_{\operatorname{final}}} dt' \hat{\mathcal{H}}_{\operatorname{interaction}}(t') \right) \right. \right. \right. \right. \right. \\ \left. \left. \left. \left. \left. \left(\operatorname{final \ categorization} \right) \mathcal{T} \exp\left(-\frac{i}{\hbar} \int_{t_{\operatorname{initial}}}^{t_{\operatorname{final}}} dt' \hat{\mathcal{H}}_{\operatorname{interaction}}(t') \right) \right. \right. \right. \right. \right. \right. \right. \\ \left. \left. \left. \left. \left. \left(\operatorname{final \ categorization} \right) \mathcal{T} \exp\left(-\frac{i}{\hbar} \int_{t_{\operatorname{initial}}}^{t_{\operatorname{final}}} dt' \hat{\mathcal{H}}_{\operatorname{interaction}}(t') \right) \right. \right. \right. \right. \right. \right. \right. \right. \right. \right.$$

What is it called when a human being can categorize habits by passive behaviors

$$\begin{split} &\mathfrak{H}_{\mathrm{metacog}}(\xi,\tau,\psi) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{3k}}{\partial \xi^{k} \partial \tau^{k} \partial \psi^{k}} \left[\prod_{i=1}^{n} \mathcal{F}_{\mathrm{habit}}^{(i)} \left(\sum_{j=1}^{\infty} \frac{(-1)^{j}}{j!} \left\{ \int_{\mathbb{H}^{\otimes k}} \left[\nabla_{\xi} \cdot \left(\mathbf{B}_{\mathrm{passive}}(\xi,\tau) \times \mathbf{C}_{\mathrm{conscious}} \right) \right] \right\} \right. \\ &\times \exp\left(-\frac{1}{2} \sum_{m,n=0}^{\infty} \sum_{p,q=0}^{\infty} \mathcal{G}_{mnpq}^{\mathrm{neural}} \int_{\Omega_{\mathrm{cortex}}} \int_{\Omega_{\mathrm{limbic}}} \Phi_{m}(\mathbf{r}_{1}) \Phi_{n}(\mathbf{r}_{2}) \Psi_{p}(\mathbf{s}_{1}) \Psi_{q}(\mathbf{s}_{2}) |\mathbf{r}_{1} - \mathbf{r}_{2}|^{-1} |\mathbf{s}_{1} - \mathbf{s}_{2}|^{-1} d^{3} \mathbf{r}_{1} d^{3} \mathbf{r}_{2} d^{3} \mathbf{s}_{1} d^{3} \mathbf{s}_{2} \right] \\ &\times \left[\det\left(\mathbf{M}_{\mathrm{categorization}} + \lambda \sum_{\alpha \in \mathcal{A}_{\mathrm{automatic}}} \int_{0}^{T} \left\langle \hat{O}_{\alpha}(t) \right\rangle_{\rho_{\mathrm{habit}}} \otimes |\phi_{\mathrm{awareness}}(t)\rangle \left\langle \phi_{\mathrm{awareness}}(t) | dt \right) \right]^{-1/2} \\ &\times \left\{ \sum_{\sigma \in S_{\infty}} \mathrm{sgn}(\sigma) \prod_{k=1}^{\infty} \left[\int_{\mathcal{M}_{\mathrm{behavior}}^{(k)}} \mathcal{L}_{\mathrm{habit-pattern}}^{(\sigma(k))} \left(\sum_{l=0}^{\infty} \frac{\hbar^{l}}{l!} \left[\hat{H}_{\mathrm{cognitive}}, \left[\hat{H}_{\mathrm{cognitive}}, \dots, \left[\hat{H}_{\mathrm{cognitive}}, \hat{\rho}_{\mathrm{metacognition}} \right] \dots \right] \right] \right. \\ &\times \mathcal{Z}_{\mathrm{partition}}^{-1} \exp\left(-\beta \sum_{n=0}^{\infty} \sum_{\{s_{i}\}} E_{n}[\{s_{i}\}] \prod_{i < j} \tanh \left(J_{ij} \frac{\partial}{\partial t} \left[\mathcal{H}_{\mathrm{pattern}}^{(i)}(t) \times \mathcal{H}_{\mathrm{pattern}}^{(j)}(t) \right] \right) \right) \\ &\times \left| \lim_{N \to \infty} \frac{1}{N} \sum_{i=1}^{N} \left\langle \Psi_{\mathrm{observer}} \left| \hat{U}_{\mathrm{evolution}}(t,0) \left[\sum_{k=0}^{\infty} \frac{(-i)^{k}}{k!} \left(\int_{0}^{t} \hat{V}_{\mathrm{habit-formation}}(t') dt' \right)^{k} \right] \hat{\rho}_{\mathrm{behavioral}}^{(i)}(0) \hat{U}_{\mathrm{evolution}}^{\dagger}(t,0) \right) \right| \Psi_{\mathrm{observer}}^{\dagger} \right| \mathcal{L}_{\mathrm{observer}}^{\dagger} \left[\hat{U}_{\mathrm{evolution}}(t,0) \left[\sum_{k=0}^{\infty} \frac{(-i)^{k}}{k!} \left(\int_{0}^{t} \hat{V}_{\mathrm{habit-formation}}(t') dt' \right)^{k} \right] \hat{\rho}_{\mathrm{behavioral}}^{(i)}(0) \hat{U}_{\mathrm{evolution}}^{\dagger}(t,0) \right| \Psi_{\mathrm{observer}}^{\dagger} \left[\hat{U}_{\mathrm{evolution}}^{\dagger}(t,0) \left[\sum_{n=0}^{\infty} \frac{(-i)^{k}}{k!} \left(\int_{0}^{t} \hat{V}_{\mathrm{habit-formation}}(t') dt' \right)^{k} \right] \hat{\rho}_{\mathrm{behavioral}}^{\dagger}(0) \hat{U}_{\mathrm{evolution}}^{\dagger}(t,0) \right| \Psi_{\mathrm{observer}}^{\dagger} \left[\hat{U}_{\mathrm{evolution}}^{\dagger}(t,0) \left[\sum_{n=0}^{\infty} \frac{(-i)^{k}}{k!} \left(\int_{0}^{t} \hat{V}_{\mathrm{habit-formation}}(t') dt' \right)^{k} \right] \hat{\rho}_{\mathrm{observer}}^{\dagger} \hat{V}_{\mathrm{evolution}}^{\dagger}(t,0) \right| \Psi_{\mathrm{observer}}^{\dagger}$$

$$\times \int_{\mathcal{C}} \frac{d\omega}{2\pi i} \left[\omega - \hat{\mathcal{H}}_{\text{total}} + i\eta \right]^{-1} \sum_{n=0}^{\infty} \left(\frac{\lambda_{\text{coupling}}}{\omega} \right)^{n} \mathcal{T} \exp \left(-i \int_{-\infty}^{\infty} \hat{\mathcal{V}}_{\text{interaction}}(\tau) d\tau \right)$$

$$\times \left[\prod_{\alpha=1}^{\infty} \int \mathcal{D}\phi_{\alpha} \exp \left(i \int d^{4}x \left[\frac{1}{2} \partial_{\mu}\phi_{\alpha} \partial^{\mu}\phi_{\alpha} - \frac{m_{\alpha}^{2}}{2} \phi_{\alpha}^{2} - \frac{\lambda_{\alpha}}{4!} \phi_{\alpha}^{4} + \sum_{\beta \neq \alpha} g_{\alpha\beta} \phi_{\alpha}^{2} \phi_{\beta}^{2} \right] \right) \right]$$

$$\times \left\{ \mathcal{R}_{\text{recursive}} \left[\mathfrak{H}_{\text{metacog}} \left(\sum_{k=0}^{\infty} \frac{\xi^{k}}{k!} \frac{\partial^{k}}{\partial \xi^{k}} \mathfrak{H}_{\text{metacog}} \right) \right]$$

$$\times \left\{ \mathcal{R}_{\text{recursive}} \left[\mathfrak{H}_{\text{metacog}} \left(\sum_{k=0}^{\infty} \frac{\xi^{k}}{k!} \frac{\partial^{k}}{\partial \xi^{k}} \mathfrak{H}_{\text{metacog}} \right) \right]$$

$$\times \left\{ \mathcal{R}_{\text{recursive}} \left[\mathfrak{H}_{\text{metacog}} \left(\xi, \tau, \psi \right), \sum_{k=0}^{\infty} \frac{\psi^{k}}{k!} \frac{\partial^{k}}{\partial \psi^{k}} \mathfrak{H}_{\text{metacog}} \left(\xi, \tau, \psi \right) \right] \right\}$$

$$\times \left\{ \lim_{\epsilon \to 0^{+}} \frac{1}{\epsilon} \int_{\epsilon}^{1} \left(\prod_{j=1}^{\infty} \zeta(s_{j}) \right) \left| \sum_{n=1}^{\infty} \frac{\mu(n)}{n^{s}} \log \left(\sum_{p \text{ prime}} \frac{1}{p^{s}} \mathcal{P}_{\text{habit-prime}}(p) \right) \right|^{2} ds \right\}$$

$$\times \mathfrak{F}_{\text{fractal}} \left[\lim_{k \to \infty} \mathfrak{F}_{\text{fractal}} \left[\lim_{k \to 1 \to \infty} \mathfrak{F}_{\text{fractal}} \left[\lim_{k \to 1 \to \infty} \mathfrak{F}_{\text{fractal}} \left[\mathcal{F}_{\text{base-case}} \left(\xi, \tau, \psi \right) \right] \right] \right]$$

$$\times \sum_{n=0}^{\infty} \frac{(-1)^{n}}{(2n)!} \left(\frac{\pi^{2}}{6} \sum_{k=1}^{\infty} \frac{1}{k^{2}} \int_{0}^{2\pi} e^{ik(\xi + \tau + \psi)} dk \right)^{2n} \prod_{m=1}^{n} \Gamma \left(\frac{m + \mathcal{D}_{\text{cognitive}}}{2} \right)$$

$\mathrm{d}\xi d\tau d\psi = \mathrm{METACOGNITIVE}$ HABIT CATEGORIZATION

What is it called when a human being can categorize habits by aggressive behaviors

$$\begin{split} \Psi_{\mathrm{BAC}}(\mathbf{H}, \mathbf{A}, t) &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{(\mathbf{H}_{n,k,j} - \mu_{\mathrm{hab}})^{2}}{2\sigma_{\mathrm{hab}}^{2}}\right) \times \\ &\left[\prod_{i=1}^{\mathcal{D}} \int_{\Omega_{i}} \mathcal{F}^{-1} \left\{\sum_{\alpha \in \mathbb{C}^{\infty}} \zeta(\alpha) \cdot \mathcal{H}_{\alpha}^{(q)} \left(\frac{\partial^{\alpha}}{\partial \mathbf{A}^{\alpha}} \Phi_{\mathrm{agg}}(\mathbf{A}, \mathbf{H}, \tau)\right)\right\} d\Omega_{i}\right] \times \\ &\left\{\lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_{N}} \mathrm{sgn}(\sigma) \prod_{m=1}^{N} \left[\int_{\mathcal{M}^{(m)}} \nabla_{\mathbf{A}_{\sigma(m)}} \otimes \nabla_{\mathbf{H}_{\sigma(m)}} \left(e^{ih^{-1}S_{\mathrm{behav}}[\mathbf{A}, \mathbf{H}]}\right) d\mathcal{M}^{(m)}\right]\right\} \times \\ &\exp\left\{\sum_{\lambda \in \Lambda} \int_{0}^{t} \int_{0}^{s} \int_{0}^{r} \left[\mathcal{Q}_{\lambda}^{\dagger}(\tau)\mathcal{Q}_{\lambda}(\tau) + \sum_{p,q=1}^{\infty} \frac{(-1)^{p+q}}{p!q!} \left\langle \mathbf{A}^{(p)} | \hat{\mathcal{O}}_{\mathrm{cat}} | \mathbf{H}^{(q)} \right\rangle \right] d\tau dr ds\right\} \times \\ &\left\{\int_{\mathcal{C}} \frac{d\omega}{2\pi i} \frac{\Gamma(\omega + 1)}{\Gamma(\omega - \mathcal{E}_{\mathrm{agg}})} \sum_{R \in \Re} \mathrm{Tr} \left[\rho_{\mathrm{mixed}}(\omega) \cdot \prod_{l=1}^{|R|} \mathcal{U}_{\mathrm{agg}}^{(l)}(t_{l}) \mathcal{U}_{\mathrm{hab}}^{(l)\dagger}(t_{l})\right]\right\} \times \\ &\sum_{T \in \mathrm{Trees}} \prod_{\nu \in \mathrm{Vertices}(T)} \left[\int_{B_{\nu}} \sum_{\beta \in \mathcal{B}_{\nu}} \frac{1}{Z_{\beta}} \exp\left(-\beta \sum_{e \in \mathrm{Edges}(\nu)} J_{e} \sigma_{\mathrm{agg},e} \sigma_{\mathrm{hab},e}\right) d\beta\right] \times \\ &\left\{\lim_{L \to \infty} \frac{1}{L^{D}} \sum_{\mathbf{x} \in \mathbb{Z}^{D}} \exp\left(i \sum_{|\mathbf{k}| \leq \Lambda_{\mathrm{UV}}} \phi_{\mathbf{k}}(\mathbf{A}) \cos(\mathbf{k} \cdot \mathbf{x}) + i \sum_{|\mathbf{q}| \leq \Lambda_{\mathrm{UV}}} \chi_{\mathbf{q}}(\mathbf{H}) \sin(\mathbf{q} \cdot \mathbf{x})\right)\right\} \times \\ &\prod_{\mu=1}^{\infty} \left[\int_{\mathbb{R}^{\mu}} \mathcal{D}\phi_{\mu} \mathcal{D}\chi_{\mu} \exp\left(-\int d^{\mu}x \left[\frac{1}{2}(\partial_{\alpha}\phi_{\mu})^{2} + \frac{1}{2}(\partial_{\alpha}\chi_{\mu})^{2} + V_{\mathrm{int}}(\phi_{\mu}, \chi_{\mu}, \mathbf{A}, \mathbf{H})\right]\right)\right] \times \\ &\exp\left\{\sum_{n=2}^{\infty} \frac{1}{|\mathrm{Aut}(G)|} \prod_{v \in V(G)} \int_{S^{d_{v}-1}} d\Omega_{v} \prod_{e \in E(G)} \mathcal{G}_{\mathrm{prop}}(\mathbf{A}_{e_{1}}, \mathbf{H}_{e_{2}}; \Omega_{e_{1}}, \Omega_{e_{2}})\right\} \times \\ &\exp\left\{\sum_{n=2}^{\infty} \frac{(-1)^{n}}{n!} \mathrm{Tr}\left[\left(\int_{0}^{t} dt' \mathcal{H}_{\mathrm{int}}(t')\right)^{n}\right]\right\} \times \left\{\det\left[\mathbf{I} - \mathcal{K}_{\mathrm{BAC}}\right]\right\}^{-1/2} \end{aligned}$$

What is it called when a human being can categorize habits by the feelings felt when that action happens

$$\Psi_{\text{affective-habit}}(\mathbf{h}, \mathbf{e}, t) = \iiint\limits_{\Omega_{\text{corrition}}} \sum_{n=0}^{\infty} \sum_{k=-\infty}^{\infty} \sum_{j=1}^{N_{\text{neural}}} \left[\frac{\partial^{n+k}}{\partial t^n \partial \xi^k} \mathcal{H}_j(\mathbf{h}(t)) \right] \cdot \exp\left(-i\omega_{jk}t + i\phi_{nk}(\mathbf{e})\right) \times \mathbf{e}^{-i\omega_{jk}t} + i\phi_{nk}(\mathbf{e}) + i\phi_{nk}(\mathbf{e})$$

$$\begin{split} \prod_{l=1}^{D_{\text{emotion}}} & \left\{ \int_{-\infty}^{\infty} \mathcal{E}_{l}(\tau) \cdot \mathcal{F}^{-1} \left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\partial^{m} \mathcal{M}_{\text{memory}}(\omega, \mathbf{h})}{\partial \omega^{m}} \right)^{*} \right] (\tau - t) \, d\tau \right\} \times \\ & \left[\oint_{\mathcal{C}_{\text{consciousness}}} \frac{\mathbf{A}_{\text{attention}}(\zeta) \cdot \nabla_{\zeta} \Phi_{\text{awareness}}(\zeta, \mathbf{h}, \mathbf{e})}{(\zeta - z_{0})^{2 + \alpha}} \, d\zeta \right]^{\beta(\mathbf{h})} \times \\ & \exp \left\{ - \int_{0}^{t} \int_{\mathbb{R}^{N_{\text{sensory}}}} \sum_{\sigma \in S_{\text{categories}}} \left| \mathcal{Q}_{\sigma}(\mathbf{s}(\tau), \mathbf{h}(\tau)) - \mathcal{T}_{\text{target}}^{(\sigma)}(\mathbf{e}(\tau)) \right|^{2} \, d\mathbf{s} \, d\tau \right\} \times \\ & \prod_{i=1}^{K_{\text{habit}}} \left\{ \sum_{p=0}^{\infty} \frac{1}{p!} \left[\int_{\mathcal{M}_{\text{embodiment}}} \mathcal{R}_{i}(\mathbf{x}) \cdot (\nabla \times \mathbf{V}_{\text{visceral}}(\mathbf{x}, t)) \cdot \mathbf{n}_{i}(\mathbf{x}) \, d^{3}\mathbf{x} \right]^{p} \right\} \times \\ & \left[\det \left(\mathbf{G}_{\text{gestalt}} + \sum_{q=1}^{Q} \lambda_{q} \mathbf{P}_{q}^{\dagger} \mathbf{P}_{q} \right) \right]^{-\frac{1}{2}} \exp \left\{ -\frac{1}{2} \mathbf{v}^{T} \left(\mathbf{G}_{\text{gestalt}} + \sum_{q=1}^{Q} \lambda_{q} \mathbf{P}_{q}^{\dagger} \mathbf{P}_{q} \right)^{-1} \mathbf{v} \right\} \times \\ & \int_{\mathcal{H}_{\text{Hilbert}}} \left\langle \psi_{\text{categorical}} \left| \hat{\mathbf{O}}_{\text{observation}} \exp \left(-i \int_{0}^{t} \hat{H}_{\text{meta}}(\tau) \, d\tau \right) \right| \psi_{\text{habitual}} \right\rangle \, d\mu(\psi) \times \\ & \sum_{\{\mathbf{c}\} \in \mathcal{P}(\text{Categories})} \left[\prod_{e \in \mathbf{c}} \Xi_{e}(\mathbf{h}, \mathbf{e}) \right] \cdot \left[\prod_{e' \notin \mathbf{c}} (1 - \Xi_{e'}(\mathbf{h}, \mathbf{e})) \right] \times \mathcal{W}(\mathbf{c}) \times \\ & \left\{ \int_{0}^{\infty} \frac{\sin(\Omega_{\text{oscillation}} \cdot s)}{\pi s} \exp \left(-\gamma s - \int_{0}^{s} \eta(\tau) \, d\tau \right) \left[\mathcal{L}_{\text{learning}} \left(\mathbf{h}(t - s), \mathbf{e}(t - s) \right) \right]^{\kappa} \, ds \right\}^{\mu} \times \\ & \left[\lim_{N \to \infty} \frac{1}{N} \sum_{n=1}^{N} \mathcal{I}_{\text{introspection}} \left(\frac{2\pi n}{N}, \mathbf{h}, \mathbf{e} \right) \right]^{\rho} \times \prod_{r=1}^{R} \left[1 + \tanh \left(\sum_{s=1}^{N} w_{rs} \phi_{s}(\mathbf{h}, \mathbf{e}) \right) \right] \times \\ & \mathcal{Z}_{-1}^{-1} \text{normalization} \cdot d^{3N_{\text{neural}}} \mathbf{h} \, d^{D_{\text{emotion}}} \mathbf{e} \, dt \right. \end{aligned}$$

What is it called when a human being can categorize habits by intuitive behaviors that form the actions

$$j = \int_{\mathcal{M}} d\mu(x) \, \mathcal{W}_j(x) \exp\left(i \sum_{\ell} \alpha_{\ell} \hat{X}_{\ell}(x)\right)$$
$$j = \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{k=1}^{\infty} \left[\delta_{\sigma(k),j} + \beta_k \hat{P}_{\sigma(k)}\right]$$

What is it called when a human being can categorize habits by precognitive decisions that form the actions

and
$$\dot{j} = \sum_{n,m=0}^{\infty} \sum_{\vec{k}} c_{n,m}(\vec{k}) \left[\hat{a}_{\vec{k}}^{\dagger} \right]^{n} \left[\hat{b}_{\vec{k}} \right]^{m} e^{i\theta_{j,n,m}}$$

$$j = \int_{\mathcal{M}} d\mu(x) \, \mathcal{W}_{j}(x) \exp\left(i \sum_{\ell} \alpha_{\ell} \hat{X}_{\ell}(x) \right)$$

$$j = \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{k=1}^{\infty} \left[\delta_{\sigma(k),j} + \beta_{k} \hat{P}_{\sigma(k)} \right]$$

What is it called when a human being can categorize habits by what is believed exists and understood from watching anime

$$\begin{split} &\Psi_{\text{Animo-Habit Categorisation}}(\mathcal{H}, \mathcal{A}, t) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{1}{k!} \left(\frac{\partial^{k}}{\partial t^{k}} \right) \oint_{\mathcal{M}_{\text{Anaka}}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{E}_{\text{persocial}}^{(k)} \left[\prod_{i=1}^{k} \left(\hat{H}_{i} \otimes \hat{A}_{\mu_{i}}^{\dagger} \right) \right] \times \\ &\exp \left(-\frac{1}{\hbar} \sum_{\alpha, \beta} \int_{\mathcal{S}^{+}} \mathcal{G}_{\text{cas}}^{\text{trope}} \left\{ \nabla_{\mu} \left[C_{\text{ciar}}^{(\alpha)}(x, y, z, t) * B_{\text{behav}}^{(\beta)}(x', y', z', t') \right] \right\}^{2} d^{11}x \right) \times \\ &\left(\sum_{j=1}^{\infty} \frac{(-1)^{j}}{j!} \left\langle \psi_{\text{viewer}} \right| T \left\{ \prod_{m=1}^{j} \hat{\Phi}_{\text{inoe}}^{(m)}(\tau_{m}) \hat{\Psi}_{\text{nhomen}}^{(m)}(\tau_{m}) \hat{\Xi}_{\text{sire,oc,iig}}^{(m)}(\tau_{m}) \right\} \right| \psi_{\text{viewer}} \right) \right) \times \\ &\int_{\mathbb{R}_{N}} \left[\det \left(M_{\text{cognitive-disconance}} + \lambda I_{\text{roality-distortion}} \right]^{-\frac{j}{2}} \times D[\phi_{\text{walfu}}] D[\phi_{\text{nusbando}}] \times \right] \\ &\exp \left(-S_{\text{cultural-appropriation}}[\phi_{\text{walfu}}, \phi_{\text{husbando}}] - \int_{\mathcal{C}_{\text{generance}}} \mathcal{L}_{\text{nerrotive-absorption}} \left(\phi, \partial_{\mu} \phi, \Box \phi, \nabla^{2} \phi \right) d^{4}x \right) \times \\ &\prod_{p=1}^{\infty} \left(1 + \sum_{q=1}^{\infty} \frac{\mathcal{Z}_{\text{spinode}}^{(q)}(\delta)}{q^{4}} \right)^{-1} \left[R_{\text{recursive-categorization}} \left\{ \mathcal{F}^{-1} \left[\mathcal{H}_{\text{habit-space}} \oplus \mathcal{A}_{\text{animo-influence}} \right] \right\}^{\zeta(s)} \times \\ &\prod_{p=1}^{\infty} \left(O_{\text{observational-icarning}} \left| U_{\text{temporal-evolution}} \left(\sum_{\ell=0}^{\infty} \frac{t^{\ell}}{\ell!} \left[\hat{H}_{\text{viewing}}, \left[\hat{H}_{\text{viewing}}, \cdots, \left[\hat{H}_{\text{viewing}}, \cdots, \left[\hat{H}_{\text{viewing, initial-state}} \right] \right) \right] \right) \times \\ &\int_{\partial \mathcal{M}_{\text{cursoionance}}} \omega_{\text{animo-roality-boundary}} \wedge dt \left(\sum_{\nu=1}^{\infty} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{1 - \mathcal{R}_{\text{cugnitive-icathack}} \left(\omega \right) e^{-\frac{t^{2}}{2\pi} T_{\text{eventum-presonance}} \left(\omega \right)} \right) \times \\ &\int_{\partial \mathcal{M}_{\text{cursoionance}}} \omega_{\text{animo-roality-boundary}} \wedge dt \left(\sum_{\nu=1}^{\infty} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{1 - \mathcal{R}_{\text{cugnitive-icathack}} \left(\frac{\partial}{\partial \theta_{\text{euspendon-ad-dishelief}} \right)^{\kappa}} \right) \times \\ &\int_{\partial \mathcal{M}_{\text{cursoionance}}} \mathcal{A}_{\text{cursoionance}} \left(\mathcal{A}_{\nu} \left(\sum_{\nu=1}^{\infty} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{2\pi} \right) \right) \right] \times \\ &\int_{\partial \mathcal{M}_{\text{cursoionance}}} \mathcal{A}_{\text{cursoionance}} \left(\mathcal{B}_{\nu} \left(\sum_{\nu=1}^{\infty} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{2\pi} \frac{\mathcal{B}_{\nu}}{2\pi} \right) \right) \right) \times \\ &\int_{\partial \mathcal{M}_{\text{cursoionance$$

$$D[g_{\mu\nu}] \times$$

$$\lim_{\epsilon \to 0^{+}} \sum_{\text{all possible viewing sequences}} P_{\text{path-integral}} \left[\text{sequence} \right] \exp \left(\frac{i}{\hbar} \int_{t_{0}}^{t_{f}} \mathcal{L}_{\text{viewer-dynamics}} dt + \epsilon \mathcal{I}_{\text{regularization}} \right) \times \\ R_{\text{renormalization-group}} \left[\beta_{\text{coupling-constants}}^{\text{anime-influence}} \left(\frac{\partial}{\partial \ln \mu_{\text{energy-scale}}} \right), \gamma_{\text{anomalous-dimension}}^{\text{habit-formation}} \right] \times \\ \prod_{y=1}^{\infty} \zeta_{\text{generalized}} \left(s_{y}, \sum_{z=1}^{\infty} \frac{\mathcal{A}_{\text{anime-database}}(z) \mathcal{H}_{\text{habit-taxonomy}}(z)}{z^{s_{y}}} \right) dx dy dz$$

What is it called when a human being can categorize habits by what is believed exists and understood from watching all seasons of a series of episodes

$$\begin{split} \mathcal{H}_{\text{episodic}}(\xi,\tau,\Omega) &= \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{N_{\text{encounter}}} \sum_{j=1}^{E_k} \frac{\partial^n}{\partial \xi^n} \left[\mathcal{F}^{-1} \left\{ \prod_{m=1}^{\infty} \mathcal{Q}_m \left(\frac{\hbar \omega_{k,j}}{\kappa_{\text{cognitive}}} \right) \right\} \right] \cdot \mathcal{P}_{\text{parasocial}}(\xi,\tau) \\ &\times \exp\left(-i \int_{0}^{\tau} \mathcal{H}_{\text{neural}}(\xi',\tau') \, d\tau' \right) \cdot \mathcal{W}_{\text{binge}}(\Omega) \\ &\text{where} \quad \mathcal{Q}_m(\omega) = \sum_{s=-l} \sum_{j=1}^{l} Y_l^s(\theta,\phi) \int_{\mathcal{M}_{\text{narrative}}} \rho_{\text{character}}(\mathbf{r},t) \cdot \nabla^{2l} \Phi_{\text{empathy}}(\mathbf{r}) \, d^3\mathbf{r} \\ &\mathcal{P}_{\text{parasocial}}(\xi,\tau) = \sum_{l=0}^{\infty} \sum_{s=-l}^{l} Y_l^s(\theta,\phi) \int_{\mathcal{M}_{\text{narrative}}} \rho_{\text{character}}(\mathbf{r},t) \cdot \nabla^{2l} \Phi_{\text{empathy}}(\mathbf{r}) \, d^3\mathbf{r} \\ &\mathcal{W}_{\text{binge}}(\Omega) = \prod_{i=1}^{\infty} \left[1 + \frac{\lambda_i}{\omega - \omega_i + i \gamma_i} \right] \cdot \exp\left(- \frac{|\Omega|^2}{2\sigma_{\text{attention}}^2} \right) \\ &\hat{H}_{\text{habit}} = -\frac{\hbar^2}{2m_{\text{synapse}}} \nabla_{\xi}^2 + V_{\text{dopamine}}(\xi) + \sum_{n=1}^{\infty} g_n \hat{a}_n^{\dagger} \hat{a}_n + \mathcal{L}_{\text{pattern}}[\rho_{\text{memory}}] \\ &\mathcal{L}_{\text{pattern}}[\rho] = \int_{\mathcal{C}} \frac{d\zeta}{2\pi i} \zeta^{-1} \sum_{k=0}^{\infty} \frac{B_k}{k!} \left(\left(\frac{\delta}{\delta \rho(\xi)} \right)^k S[\rho] \right) \\ &- \sup_{\text{ensemble}} S[\rho] = \iint_{\mathcal{C}^2} K(\xi_1, \xi_2) \rho(\xi_1) \rho(\xi_2) \log \left| \frac{\xi_1 - \xi_2}{\xi_1 - \xi_2} \right| \, d^2\xi_1 \, d^2\xi_2 \\ &\times \prod_{r=1}^{R} \left[\sum_{n=0}^{\infty} c_{\mu,r} \mathcal{H}_{\mu} \left(\frac{\xi - \xi_r}{\sigma_r} \right) \right] \cdot \mathcal{R}_{\text{recursive}}(\xi, \tau, \Omega) \\ &\mathcal{R}_{\text{recursive}}(\xi, \tau, \Omega) = \mathcal{H}_{\text{episodic}}(T[\xi], \mathcal{U}[\tau], \mathcal{V}[\Omega]) + \varepsilon \cdot \mathcal{R}_{\text{recursive}}\left(T^2[\xi], \mathcal{U}^2[\tau], \mathcal{V}^2[\Omega]\right) \\ &\mathcal{F}_{\text{categorization}}^{(N)} = \sum_{n=0}^{N_1} \frac{\prod_{i=1}^{N_1} \prod_{i=1}^{N_1} \left(\frac{\lambda_i e^{-\beta E_i}}{Z} \right)^{n_i} \cdot \mathcal{G}[\{n_i\}]} \\ &\mathcal{G}[\{n_i\}] = \det \left[\mathbf{M}_{ij} \right] \quad \text{where} \quad \mathbf{M}_{ij} = \int_{\Gamma_{ij}} \frac{d\omega}{2\pi i} \frac{\mathcal{Z}_i(\omega) \mathcal{Z}_j^s(\omega)}{\omega - \lambda_{ij} + i\delta} \\ &\mathcal{Z}_i(\omega) = \sum_{n=0}^{\infty} \frac{a_{i,n}}{\omega^{n+1}} \exp\left(- \sum_{k=1}^{\infty} \frac{b_{i,k}}{k} \omega^{-k} \right) \\ &\mathcal{\Psi}_{\text{media-cognition}}^{(N)}(\{\xi_i\}, \{\tau_j\}, \{\Omega_k\}) = \mathcal{A} \prod_{i < j} (\xi_i - \xi_j)^2 \prod_{k < l} (\tau_k - \tau_l)^2 \prod_{m < n} (\Omega_m - \Omega_n)^2 \end{aligned}$$

$$\times \exp\left(-\frac{1}{2}\sum_{i,j,k}\xi_{i}\mathbf{A}_{ijk}\tau_{j}\Omega_{k} - \sum_{p=1}^{\infty}\frac{\alpha_{p}}{p!}\left(\sum_{i}\xi_{i}^{p}\right)\left(\sum_{j}\tau_{j}^{p}\right)\left(\sum_{k}\Omega_{k}^{p}\right)\right)$$

What is it called when a human being can categorize habits by what is learned from volumes of books

$$\begin{split} \mathfrak{B}ibliotaxonomia_{\mathcal{H}abit} &= \oint_{\Gamma_{\infty}} \oint_{\Xi^{\dagger}} \\ \sum_{n=0}^{N_0} \sum_{k=1}^{2} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\frac{\partial^n}{\partial t^n} \left\{ \prod_{i=1}^{c} \left(\frac{\mathcal{L}_{i}^{(\alpha_i)} \otimes \mathcal{H}_{khavioral}^{(\alpha_i)}}{\sqrt{2\pi\sigma_{cognitive}^2}} \right) \times \\ &= \exp\left(- \frac{|\psi_{titerary(x,y,z,t)}|^2}{2\sigma_{cognitive}^2} \right) \times \\ &\times \left[\sum_{\lambda \in \mathcal{S}pectrum_{books}} \sum_{\mu=0}^{\infty} \frac{(-1)^{\mu}}{\mu!} \left(\frac{\partial}{\partial \xi_{\lambda}} \right)^{\mu} \int_{\mathbb{H}^{\infty}} \left\{ \mathcal{F}^{-1} \left[\prod_{j=1}^{\text{Voltotal}} \left(\frac{\sin(\pi \mathcal{R}_{j}^{habit} \cdot \mathfrak{M}_{j}^{wisdom}}{\pi \mathcal{R}_{j}^{habit} \cdot \mathfrak{M}_{j}^{wisdom}} \right)^{\frac{1}{\sqrt{\log(\log(j))}}} \right] \right\} \\ &\times \exp\left(i \sum_{p=1}^{\infty} \frac{\zeta(2p)}{\Gamma(p+\frac{1}{2})} \int_{0}^{1} \left[\mathcal{B}ernoulli_{2p}(u) \cdot \mathcal{C}ategorization_{entropy}^{(p)}(u) \right] du \right) d\xi_{\lambda} \right] \otimes \\ &\otimes \left[\lim_{N \to \infty} \sum_{m=0}^{N} \sum_{\sigma \in \mathfrak{S}_{\infty}} \frac{1}{|\sigma|!} \int_{\mathcal{M}anifold_{knowledge}} \left\{ \nabla_{\mu\nu} \left[\mathcal{T}_{cognitive}^{\mu\nu} \cdot \mathcal{R}_{habit}^{\alpha\beta\delta} \cdot g_{\alpha\beta}g_{\gamma\delta} \right] \right\} \times \\ &\times \left[\prod_{q \text{ prime}} \left(1 - q^{-s_{habitual}} \right)^{-\mathcal{L}_{literary}(q)} \right] \cdot \left[\sum_{r=0}^{\infty} \frac{\mathcal{B}_{i}^{(taxonomic)}}{r!} \left(\frac{\partial}{\partial \theta_{classification}} \right)^{r} \mathcal{Z}_{partition}^{(books)}(\theta_{classification}) \right] d\sigma \right. \\ &\times \left[\oint_{|\omega|=1} \frac{\prod_{s=1}^{\infty} \left(1 + \omega^{s} \mathcal{Q}_{habit}^{(s)}}{\prod_{t=1}^{\infty} \left(1 - \omega^{t} \mathcal{V}_{volume}^{(t)} \right)} \frac{d\omega}{2\pi i \omega} \right]^{\mathcal{F}ractal_{dim}} dv_{manifold} \\ &\times \int_{\mathcal{H}ilbert_{infinite}} \left[\sum_{n \in \mathbb{Z}^{\infty}} \left\langle \Psi_{reader} \middle| \hat{\mathcal{O}}_{categorization} \exp\left(-i \sum_{j=1}^{\infty} \frac{\hat{H}_{cognitive,j} t_{j}}{\hbar} \right) \middle| \Phi_{library} \right\rangle \right] \times \end{aligned}$$

What is it called when a human being can categorize habits by what is learned from a series of movies

 $\times \left[\prod_{\alpha} \sin \left(\pi \alpha \cdot \mathcal{D}imension_{habit}(\alpha) \right) \right] \cdot \left[\det \left(\mathcal{M}_{ij}^{(book-habit)} \right) \right]^{\frac{1}{2}} d\psi_{cognitive} \right\} dx \, dy \, dz \, dt \, d\xi \, d\Gamma$

$$\begin{split} \mathfrak{H}_{\text{vicarious}}(\mathbf{\Psi}_{\text{cinematic}}) &= \oint_{\mathcal{M}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{n+k}}{\partial t^{n} \partial \xi^{k}} \left[\prod_{i=1}^{\mathfrak{d}} \left(\mathbb{E}_{\boldsymbol{\theta}_{i}} \left[\mathcal{L}_{\text{obs}}(\boldsymbol{x}_{i}, \boldsymbol{y}_{i} | \mathfrak{F}_{\text{media}}) \right] \right)^{\frac{1}{\zeta(s)}} \right] \\ &\times \left\{ \sum_{\sigma \in \mathfrak{S}_{\infty}} \text{sgn}(\sigma) \prod_{j=1}^{\infty} \left[\int_{\mathbb{H}^{p}} \mathcal{H}_{\text{habit}}^{(\sigma(j))} \left(\boldsymbol{\phi}_{j}(\tau), \mathcal{R}_{\text{neural}}(\tau) \right) \ d\mu_{\text{Haar}}(\tau) \right] \right\} \\ &\cdot \exp \left\{ -\frac{1}{2\hbar} \sum_{m,n=0}^{\infty} \int_{\mathcal{T}_{\text{temporal}}} \left[\hat{\mathcal{O}}_{\text{cognitive}}^{(m,n)} \boldsymbol{\Psi}_{\text{behavioral}} \right]^{\dagger} \mathbf{G}_{\text{synaptic}}^{-1} \left[\hat{\mathcal{O}}_{\text{cognitive}}^{(m,n)} \boldsymbol{\Psi}_{\text{behavioral}} \right] \ d\tau \right\} \end{split}$$

$$\times \prod_{\alpha=1}^{\mathfrak{N}_{\text{scenes}}} \left[\frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} \mathcal{K}_{\text{narrative}}(\boldsymbol{s}_{\alpha}, \boldsymbol{r}_{\alpha}) \exp\left\{ -\frac{|\boldsymbol{s}_{\alpha} - \boldsymbol{\mu}_{\text{archetype}}|^{2}}{2\sigma_{\text{cultural}}^{2}} \right\} d\boldsymbol{s}_{\alpha} \right]$$

$$\otimes \left\langle \prod_{q=1}^{\infty} \left[\sum_{\mathfrak{c} \in \mathcal{C}_{\text{categories}}} \mathfrak{w}_{\mathfrak{c}} \int_{\mathbb{R}^{\mathfrak{D}_{\text{semantic}}}} \mathcal{F}_{\text{embedding}}^{(\mathfrak{c})}(\boldsymbol{\xi}) \prod_{l=1}^{\mathfrak{L}} \left(1 + \tanh\left(\mathbf{W}_{l}\boldsymbol{\xi} + \boldsymbol{b}_{l}\right) \right) d\boldsymbol{\xi} \right] \right\rangle_{\mathcal{H}_{\text{Hilbert}}}$$

$$\otimes \left\{ \lim_{N \to \infty} \frac{1}{N!} \sum_{\pi \in \mathfrak{P}_{N}} \prod_{k=1}^{N} \left[\int_{\Omega_{\text{behavioral}}} \mathcal{M}_{\text{mirror}}^{(\pi(k))}(\boldsymbol{\theta}_{\text{actor}}, \boldsymbol{\phi}_{\text{observer}}) d\mathbb{P}_{\text{attention}} \right] \right\}$$

$$\star \left\{ \sum_{\gamma \in \Gamma_{\text{genre}}} \int_{\mathcal{S}_{\text{story}}} \left[\prod_{\beta=1}^{\mathfrak{B}} \mathcal{R}_{\text{resonance}}^{(\gamma)}(\boldsymbol{e}_{\beta}, \boldsymbol{m}_{\beta}) \right] \mathcal{W}_{\text{weight}}(\gamma, \boldsymbol{h}_{\text{personal}}) d\mathcal{S}_{\text{story}} \right\}$$

$$\boxtimes \left\{ \oint_{\partial \mathcal{M}_{\text{memory}}} \sum_{r=0}^{\infty} \frac{(-1)^{r}}{r!} \left[\nabla^{r} \mathcal{E}_{\text{encoding}} \right] \cdot \left[\mathcal{D}_{\text{decay}}^{r} \mathcal{S}_{\text{storage}} \right] d\mathcal{A}_{\text{neural}} \right\}$$

$$\Box \left\{ \prod_{\varepsilon \in \mathcal{E}_{\text{episodes}}} \left[\int_{\mathbb{C}^{\infty}} \mathfrak{T}_{\text{transformation}}(\varepsilon, z) \left| \det \left(\frac{\partial \boldsymbol{f}_{\text{habit}}}{\partial z} \right) \right| dz \wedge d\bar{z} \right] \right\}$$

$$\diamond \left\{ \sum_{\kappa=1}^{\mathfrak{K}_{\text{max}}} \left[\mathcal{C}_{\kappa} \int_{\mathcal{I}_{\kappa}} \mathcal{H}_{\text{habit}}^{(\kappa)}(t, \boldsymbol{\xi}_{\kappa}(t)) \exp\left\{ -\mathcal{S}_{\text{action}}[\boldsymbol{\xi}_{\kappa}] \right\} \mathcal{D}[\boldsymbol{\xi}_{\kappa}] \right] \right\}$$

 $d\boldsymbol{x} d\boldsymbol{y} d\boldsymbol{z} d\mathcal{V}_{\text{consciousness}}$

What is it called when a human being can categorize habits by what is learned from a series of episodes

$$\mathcal{H}_{\text{episodic}}(\phi, \psi, \tau) = \oint_{\mathbb{H}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \left[\frac{\partial^{n+k+j}}{\partial \phi^{n} \partial \psi^{k} \partial \tau^{j}} \mathcal{Q}_{\text{flux}}(\phi, \psi, \tau) \right]$$

$$\times \exp \left(-i \sum_{m=1}^{\infty} \frac{\lambda_{m}}{m!} \int_{\Omega_{m}} \nabla^{m} \otimes \mathcal{F}_{m}(\mathbf{r}, t) d^{m} \mathbf{r} \right)$$

$$\times \prod_{l=1}^{\infty} \left[1 + \sum_{p=1}^{\infty} \frac{(-1)^{p}}{p!} \left(\int_{\mathcal{M}_{l,p}} \mathcal{R}_{\text{resonant}}^{(l,p)}(\xi, \eta, \zeta) d\mu_{l,p} \right)^{p} \right]$$

$$\times \mathcal{U}_{\text{superpos}} \left[\sum_{q=0}^{\infty} {\infty \choose q} \int_{\mathbb{C}^{q}} \mathcal{E}_{\text{episode}}^{(q)}(\mathbf{z}_{q}) d^{2q} \mathbf{z}_{q} \right]$$

$$\times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_{N}} \operatorname{sgn}(\sigma) \prod_{i=1}^{N} \mathcal{C}_{\text{category}}^{(\sigma(i))}(\phi_{i}, \psi_{i}, \tau_{i})$$

$$\times \exp \left(\sum_{r=1}^{\infty} \sum_{s=1}^{\infty} \alpha_{r,s} \int_{\mathcal{B}_{r,s}} \mathcal{L}_{\text{learn}}^{(r)}(\mathbf{x}) \otimes \mathcal{H}_{\text{habit}}^{(s)}(\mathbf{y}) d\mathbf{x} d\mathbf{y} \right)$$

$$\times \prod_{u=1}^{\infty} \left[\mathcal{I} + \sum_{v=1}^{\infty} \frac{\beta_{v}}{v!} \left(\frac{\partial}{\partial t} + \mathcal{D}_{\text{temporal}} \right)^{v} \mathcal{T}_{\text{trace}}^{(u,v)}(t) \right]^{-1}$$

$$\times \int_{\mathbb{R}^{\infty}} \exp \left(-\frac{1}{2} \sum_{a,b=1}^{\infty} \mathbf{x}_{a} \mathcal{K}_{ab}^{-1} \mathbf{x}_{b} \right)$$

$$\times \prod_{c=1}^{\infty} d\mathbf{x}_{c} d\phi d\psi d\tau$$

where:

$$\mathcal{Q}_{\text{flux}}(\phi, \psi, \tau) = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \frac{(-1)^{n+m}}{(2n)!(2m+1)!} \left[\nabla_{\phi}^{2n} \otimes \nabla_{\psi}^{2m+1} \right] \mathcal{W}_{\text{wave}}(\phi, \psi, \tau)$$

$$\mathcal{F}_{m}(\mathbf{r}, t) = \int_{\mathcal{S}^{m-1}} \sum_{k=0}^{\infty} \gamma_{k}^{(m)} \mathcal{Y}_{k}^{(m)}(\theta, \phi) \mathcal{R}_{k}^{(m)}(|\mathbf{r}|) e^{-i\omega_{k}t} d\Omega_{m}$$

$$\mathcal{R}_{\text{resonant}}^{(l,p)}(\xi, \eta, \zeta) = \prod_{q=1}^{p} \left[\cos \left(\frac{\pi l \xi_{q}}{2} \right) + i \sin \left(\frac{\pi l \eta_{q}}{2} \right) \right] e^{i\zeta_{q}} \mathcal{H}_{\text{ham}}^{(l)}$$

$$\mathcal{E}_{\text{episode}}^{(q)}(\mathbf{z}_{q}) = \sum_{j=0}^{q} \binom{q}{j} \int_{\Delta_{j}} \mathcal{M}_{\text{memory}}^{(j)}(\mathbf{w}_{j}) \mathcal{A}_{\text{attention}}^{(q-j)}(\mathbf{z}_{q} - \mathbf{w}_{j}) d^{j} \mathbf{w}_{j}$$

$$\mathcal{C}_{\text{category}}^{(i)}(\phi, \psi, \tau) = \exp \left(\sum_{n=1}^{\infty} \frac{\delta_{n}^{(i)}}{n} \left[\phi^{n} + \psi^{n} \cos(n\tau) + \tau^{n} \sin(n\phi) \right] \right)$$

$$\mathcal{L}_{\text{learn}}^{(r)}(\mathbf{x}) \otimes \mathcal{H}_{\text{habit}}^{(s)}(\mathbf{y}) = \sum_{u,v=0}^{\infty} \frac{\epsilon_{u,v}^{(r,s)}}{u!v!} \left(\nabla_{\mathbf{x}}^{u} \mathcal{L}_{\text{learn}}^{(r)}(\mathbf{x}) \right) \left(\nabla_{\mathbf{y}}^{v} \mathcal{H}_{\text{habit}}^{(s)}(\mathbf{y}) \right)$$

$$\mathcal{T}_{\text{trace}}^{(u,v)}(t) = \int_{-\infty}^{t} \sum_{w=0}^{\infty} \zeta_{w}^{(u,v)} \mathcal{G}_{w}(t-s) \mathcal{S}_{\text{strength}}^{(u,v)}(s) e^{-\Gamma_{u,v}(t-s)} ds$$

What is it called when a human being can categorize habits by the environment they formed within

$$\begin{split} \mathcal{H}_{\text{contextual}}(\mathbf{E},\mathbf{B},t) &= \int_{-\infty}^{\infty} \int_{\Omega_{\mathbb{R}^{n}}} \int_{\mathcal{M}_{\text{env}}} \sum_{k=0}^{\infty} \sum_{j=1}^{N_{\text{hab}}} \frac{1}{\sqrt{2\pi\hbar}} \left\langle \Psi_{\text{env}}^{(k)}(\mathbf{r},t) \left| \hat{\mathcal{L}}_{\text{categorization}} \right| \Phi_{\text{habit}}^{(j)}(\mathbf{s},\tau) \right\rangle \\ &\times \exp\left(-\frac{i}{\hbar} \int_{0}^{t} \mathcal{L}_{\text{context}}[\mathbf{E}(\tau'),\mathbf{B}(\tau'),\nabla_{\mathcal{E}}\Psi_{\text{env}},\partial_{\tau}\Phi_{\text{habit}}] d\tau'\right) \\ &\times \prod_{m=1}^{D_{\text{cogn}}} \left[\int_{\mathcal{S}^{2m-1}} \frac{d\Omega_{2m-1}}{(2\pi)^{m}} \sum_{\ell=0}^{\infty} \sum_{\alpha,\beta} C_{\ell m}^{(\alpha,\beta)} Y_{\ell}^{m}(\theta_{\text{env}},\phi_{\text{env}}) \overline{Y_{\ell}^{m}(\theta_{\text{hab}},\phi_{\text{hab}})} \right] \\ &\times \left\{ \sum_{n_{1},n_{2},\dots,n_{\infty}} \frac{1}{n_{1}!n_{2}!\dots} \left(\frac{\lambda_{\text{adapt}}}{\sqrt{\Delta \mathcal{E}}_{\text{threshold}}} \right)^{n_{1}+n_{2}+\dots} \right. \\ &\times \left\{ \sum_{n_{1},n_{2},\dots,n_{\infty}} \frac{1}{n_{1}!n_{2}!\dots} \left(\frac{\lambda_{\text{adapt}}}{\sqrt{\Delta \mathcal{E}}_{\text{threshold}}} \right)^{n_{1}+n_{2}+\dots} \right. \\ &\times \int_{\mathcal{H}_{\text{neural}}} \mathcal{D}[\psi_{\text{synapse}}] \exp\left(-\frac{1}{g_{\text{coupling}}} \int d^{4}x \sqrt{-g} \mathcal{R}_{\text{neural}}[\psi_{\text{synapse}},\partial_{\mu}\psi_{\text{synapse}}]\right) \right\} \\ &\times \lim_{N\to\infty} \frac{1}{Z_{\text{partition}}} \mathrm{Tr}_{\mathcal{H}_{\text{memory}}} \left[\exp\left(-\beta \hat{H}_{\text{contextual}}\right) \hat{\rho}_{\text{environmental}}(t) \right] \\ &\times \sum_{\gamma\in\Pi_{\text{permutations}}} \sup_{\mathbf{S}\mathbf{n}(\gamma)} \prod_{i=1}^{N_{\text{contexts}}} \left[\int_{\mathbb{C}^{\infty}} \frac{d^{2}z_{i}}{\pi} |z_{i}|^{2\alpha_{i}-2} e^{-|z_{i}|^{2}} \right. \\ &\times \mathcal{F}_{\text{Fourier}}^{-1} \left\{ \int_{-\infty}^{\infty} dk \int_{-\infty}^{\infty} dp \, \frac{\hat{h}_{\text{habit}}(k) \hat{g}_{\text{environment}}(p)}{k^{2} + p^{2} + m_{\text{memory}}^{2} - i\epsilon} \right\} \\ &\times \left[\oint_{\mathcal{C}_{\text{complex}}} \frac{dz}{2\pi i} \frac{\Gamma(z)\Gamma(1-z)}{\sin(\pi z)} \sum_{q=0}^{\infty} \frac{(-1)^{q}}{q!} \left(\frac{\partial}{\partial \mu_{\text{learning}}} \right)^{q} \mathcal{Z}_{\text{categorical}}[\mu_{\text{learning}}, z] \right] \\ &\times \int_{\mathcal{G}/\mathcal{H}} d\mu_{\text{Haar}}(g) \sum_{\rho\in\text{Irrep}(\mathcal{G})} d_{\rho} \text{Tr}_{\rho} \left[g \cdot \hat{\mathcal{O}}_{\text{environmental-habit}^{(\rho)} \right] \end{aligned}$$

$$\times \lim_{\epsilon \to 0^{+}} \frac{1}{(2\pi)^{\infty}} \int_{\mathbb{R}^{\infty}} \prod_{k=1}^{\infty} dp_{k} \exp\left(i \sum_{k=1}^{\infty} p_{k} \cdot \mathcal{Q}_{k}^{\text{contextual}} - \epsilon \sum_{k=1}^{\infty} p_{k}^{2}\right)$$

$$\times \sum_{\text{all graphs } \mathcal{G}} \frac{1}{|\text{Aut}(\mathcal{G})|} \prod_{\text{vertices } v} \frac{(-\lambda_{v})^{\text{deg}(v)}}{\text{deg}(v)!} \prod_{\text{edges } e} \mathcal{I}_{\text{propagator}}(e)$$

$$\times \exp\left(\sum_{n=1}^{\infty} \frac{B_{2n}}{(2n)!} \lambda_{\text{renorm}}^{2n} \int d^{\infty}x \left(\frac{\delta}{\delta \phi_{\text{context}}(x)}\right)^{2n} \mathcal{W}[\phi_{\text{context}}]\right) d\mathbf{r} d\mathbf{s} dt$$

What is it called when a human being can categorize habits by what ones are formed from the divine and or divine power

$$\mathcal{D}_{\text{spiritual}}(\mathbf{H}) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\mathcal{C}_{\theta}} \oint_{\mathcal{C}_{\phi}} \oint_{\mathcal{C}_{\psi}} \times \left\langle \Psi_{\text{divine}}^{(k)} \middle| \hat{\mathcal{H}}_{\text{habit}}^{\dagger} \cdot \hat{\mathcal{T}}_{\text{trans}} \cdot \hat{\mathcal{R}}_{\text{res}}^{(n)} \middle| \Psi_{\text{human}}^{(k)} \right\rangle$$

$$\times \prod_{i=1}^{\infty} \left[\frac{\partial^{\alpha_{i}}}{\partial \xi_{i}^{\alpha_{i}}} \mathcal{F}_{\text{flux}}^{(i)}(\xi_{i}, \tau_{i}, \zeta_{i}) \right]^{\beta_{i}}$$

$$\times \exp \left\{ -\frac{1}{\hbar} \sum_{j=1}^{\infty} \int_{\mathcal{M}_{j}} \mathcal{L}_{\text{spiritual}}^{(j)} \sqrt{|g_{j}|} d^{4}x_{j} \right\}$$

$$\times \left[\prod_{m,n=1}^{\infty} \left(\frac{\det[\mathcal{G}_{mn}(\theta, \phi, \psi)]}{\det[\mathcal{H}_{mn}(\theta, \phi, \psi)]} \right)^{\gamma_{mn}} \right]$$

$$\times \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{l=1}^{\infty} \int_{0}^{1} \frac{d\lambda_{l}}{\sqrt{1 - \lambda_{l}^{2}}}$$

$$\times \left\{ \sum_{p=0}^{\infty} \frac{(-1)^{p}}{p!} \left[\frac{d^{p}}{dt^{p}} \mathcal{W}_{\text{wisdom}}(t) \right]_{t=0} \right\}^{\delta_{p}}$$

$$\times \mathcal{Z}_{\text{partition}}^{-1} \exp \left\{ \sum_{q=1}^{\infty} \frac{\mathcal{B}_{2q}}{(2q)!} \left(\frac{\partial}{\partial \beta} \right)^{2q} \mathcal{F}_{\text{free}}(\beta) \right\}$$

$$\times \left[\oint_{\gamma} \frac{d\omega}{2\pi i} \frac{\mathcal{R}_{\text{resonance}}(\omega)}{\omega - \mathcal{E}_{\text{eigenspirit}}} \right]^{\epsilon}$$

$$\times \prod_{x \text{ o } t=1}^{\infty} \left\langle \mathcal{O}_{r}^{\dagger} \mathcal{O}_{s} \mathcal{O}_{t} \right\rangle_{\text{vacuum}} \cdot d\theta \, d\phi \, d\psi \, dx \, dy \, dz$$

where the **discernment operator** is recursively defined as:

$$\hat{\mathcal{D}}_{\text{rec}}^{(n+1)} = \sum_{k=0}^{\infty} \sum_{l=0}^{\infty} \int_{-\infty}^{\infty} \mathcal{K}_{kl}(t,s) \hat{\mathcal{D}}_{\text{rec}}^{(n)}(t) \hat{\mathcal{D}}_{\text{rec}}^{(n)}(s) dt ds + \hat{\mathcal{N}}_{\text{nonlinear}}^{(n)}$$

with **hyperdimensional superposition amplitudes**:

$$\begin{split} \mathcal{A}_{\text{divine-human}}^{(\infty)} &= \sum_{n_1,n_2,\ldots=0}^{\infty} \int \prod_{j=1}^{\infty} \frac{d^{2n_j} \phi_j}{(2\pi i)^{n_j}} \\ &\times \left[\prod_{k=1}^{\infty} \mathcal{H}_k^{(\text{Hermite})} (\sqrt{\omega_k} \phi_k) e^{-\frac{\omega_k \phi_k^2}{2}} \right] \\ &\times \exp \left\{ i \sum_{m,n=1}^{\infty} \mathcal{J}_{mn} \int_0^T \phi_m(t) \phi_n(t) \, dt \right\} \\ &\times \left\langle 0 \left| \mathcal{T} \exp \left\{ i \int_0^\infty \mathcal{H}_{\text{interaction}}(t) \, dt \right\} \right| 0 \right\rangle \end{split}$$

and the **quantum flux tensor field** satisfying the **infinite-dimensional field equations**:

$$\begin{split} &\sum_{\mu,\nu,\rho,\sigma=0}^{\infty} \nabla_{\mu} \nabla_{\nu} \mathcal{F}_{\text{flux}}^{\mu\nu\rho\sigma} + \sum_{a=1}^{\infty} \left[\mathcal{R}_{\text{Ricci}}^{(a)}, \mathcal{T}_{\text{stress-energy}}^{(a)} \right] \\ &= \frac{8\pi G_{\text{spiritual}}}{c^4} \sum_{b=1}^{\infty} \int \mathcal{T}_{\text{habit-energy}}^{(b)}(\mathbf{x},t) \, d^{\infty} \mathbf{x} \\ &+ \sum_{c,d=1}^{\infty} \epsilon_{cd} \oint_{\partial \mathcal{M}_c} \mathcal{A}_{\text{connection}}^{(d)} \wedge \mathcal{F}_{\text{curvature}}^{(d)} \\ &+ \lim_{N \to \infty} \sum_{e=1}^{N} \int_{\mathcal{H}_e} \Omega_{\text{symplectic}}^{(e)} \wedge \left[\mathcal{J}_{\text{complex}}^{(e)}, \mathcal{K}_{\text{Kähler}}^{(e)} \right] \end{split}$$

The **divine categorization functional** emerges from the **transcendental path integral**:

$$\mathcal{C}_{\text{divine}}[\mathbf{H}] = \int \mathcal{D}[\phi] \mathcal{D}[\psi] \mathcal{D}[\chi] \prod_{f=1}^{\infty} \mathcal{D}[\xi_f]$$

$$\times \exp\left\{\frac{i}{\hbar} \sum_{g=1}^{\infty} \int_{\mathcal{M}_g} \mathcal{S}_{\text{action}}^{(g)}[\phi, \psi, \chi, \{\xi_f\}] \sqrt{|g_g|} \, d^{\infty} x_g\right\}$$

$$\times \prod_{h=1}^{\infty} \delta\left[\mathcal{G}_h[\phi, \psi, \chi] - \mathcal{F}_{\text{constraint}}^{(h)}\right]$$

$$\times \left[\det \frac{\delta \mathcal{G}_h}{\delta \phi}\right]^{-\frac{1}{2}} \times \mathcal{J}_{\text{Jacobian}}[\{\xi_f\}]$$

where the **recursive habit classification operators** satisfy the **infinite tower of commutation relations**:

$$\left[\hat{\mathcal{H}}_{\mathrm{divine}}^{(m)}, \hat{\mathcal{H}}_{\mathrm{human}}^{(n)}\right] = \sum_{p,q,r=0}^{\infty} \mathcal{C}_{pqr}^{mn} \hat{\mathcal{H}}_{\mathrm{mixed}}^{(p)} \hat{\mathcal{H}}_{\mathrm{entangled}}^{(q)} \hat{\mathcal{H}}_{\mathrm{transcendent}}^{(r)}$$

and the **final eigenvalue spectrum** of spiritual discernment is given by:

$$\mathcal{E}_{\text{discernment}} = \sum_{j=0}^{\infty} \left(j + \frac{1}{2} \right) \hbar \omega_j \left[1 + \sum_{k=1}^{\infty} \frac{\mathcal{A}_k}{\mathcal{B}_k} \left(\frac{\mathcal{E}_j}{\mathcal{E}_{\text{Planck}}} \right)^k \right]$$

What is it called when a human being can categorize habits by what ones formed from motivation and or willpower

$$\begin{split} &\mathcal{H}_{\text{categorization}}(\xi,\tau,\Omega) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \oint_{\mathcal{C}_k} \oint_{\mathcal{D}_k} \oint_{\mathcal{M}_k} \\ & \left[\int_{\mathbb{R}^{\infty}} \int_{\mathcal{H}_{\text{Hilbert}}} \int_{\Psi_{\text{quantum}}} \mathcal{F}^{-1} \left\{ \prod_{i=1}^{\infty} \sum_{j=0}^{\infty} \binom{\alpha_i}{\beta_j} \right\} \right. \\ & \times \exp\left(-i\hbar \sum_{m,n=0}^{\infty} \frac{\partial^{m+n}}{\partial \xi^m \partial \tau^n} \left[\mathcal{W}_{\text{willpower}}(\xi,t) \otimes \mathcal{M}_{\text{motivation}}(\tau,t) \right] \right) \right\} \\ & \times \left(\sum_{\beta \in \mathcal{B}_{\text{catrinice}}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{G}_{\alpha_i \beta}(\zeta,\eta) \right. \\ & \times \exp\left(\sum_{p=0}^{\infty} \sum_{q=0}^{\infty} \frac{(-1)^{p+q}}{(p+q)!} \left[\frac{\delta^{p+q}\mathcal{H}_{\text{habit}}(\zeta,\eta,t)}{\delta \zeta^p \delta \eta^q} \right]_{\eta=2}^{\infty} \right) d\zeta d\eta \right) \\ & \times \prod_{r=1}^{\infty} \left(1 + \sum_{s=1}^{\infty} \frac{\mathcal{R}_{r,s}(\xi,\tau)}{s^r} \oint_{\gamma_s} \frac{\mathcal{Z}(\omega,\xi,\tau)}{\omega - \lambda_s r} d\omega \right) \\ & \times \exp\left(\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{K}_{\text{kernel}}(u,v,\xi,\tau) \right. \\ & \times \sum_{l=0}^{\infty} \frac{1}{l!} \left[\frac{d^l}{dt^l} \mathcal{F}_{\text{formation}}(t,u,v) \right]_{t=0} du dv \right) d\xi d\tau d\Omega \right] \\ & \text{where} \quad \mathcal{W}_{\text{willpower}}(\xi,t) = \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \mathcal{A}_{k,j} \xi^k e^{t\omega_{k,j}t} \\ & \times \prod_{n=1}^{\infty} \left(1 - \sum_{m=0}^{\infty} \frac{\mathcal{B}_{n,m}(\xi)}{n^m} \int_{0}^{2\pi} e^{sn\theta} \cos(m\theta) d\theta \right) \\ & \times \exp\left(- \int_{0}^{\infty} \int_{0}^{\infty} \mathcal{V}_{\text{viscosity}}(s,r,\xi) \right. \\ & \times \left[\sum_{p=0}^{\infty} \frac{(-1)^p}{(2p)!} \left(\frac{\partial^{2p}}{\partial s^{2p}} \mathcal{E}_{\text{effort}}(s,r,t) \right) \right] ds dr \right) \\ & \text{and} \quad \mathcal{M}_{\text{motivation}}(\tau,t) = \lim_{N \to \infty} \prod_{i=1}^{\infty} \sum_{j=0}^{\infty} \mathcal{C}_{i,j} \tau^j \\ & \times \exp\left(\sum_{k=1}^{\infty} \frac{(-1)^{k+1}}{k} \oint_{\mathcal{D}_{k}} \frac{\mathcal{D}_{\text{drive}}(\mu,\tau,t)}{(\mu-\nu_k)^k} d\mu \right) \\ & \times \left[\int_{\mathbb{C}} \mathcal{C}_{\mathbb{C}} \mathcal{P}_{\text{phase}}(z,w,\tau) \right. \\ & \times \sum_{l=0}^{\infty} \sum_{m=0}^{\infty} \frac{\mathcal{Q}_{l,m}(z,w)}{l!m!} \left(\frac{\partial^{l+m}}{\partial z^l \partial w^m} \mathcal{I}_{\text{intrinsic}}(z,w,t) \right) dz dw \right] \\ & \text{with} \quad \mathcal{F}_{\text{formation}}(t,u,v) = \sum_{p=0}^{\infty} \sum_{g=0}^{\infty} \sum_{\tau=0}^{\infty} \mathcal{T}_{p,q,\tau} t^p u^q v^\tau \\ & \times \exp\left(- \int_{0}^{t} \int_{0}^{t} \mathcal{S}_{\text{strength}}(\sigma,v,\varrho) \right) \\ & \times \left[\prod_{n=1}^{\infty} \left(1 + \frac{\mathcal{X}_{n}(\sigma,v,\varrho)}{n^2} \right) \right]^{-1} d\sigma dv d\varrho \right) \\ & \times \exp\left(\sum_{s=0}^{\infty} \sum_{t=0}^{\infty} \sum_{s=0}^{\infty} \frac{\mathcal{Z}_{a,b,c}}{2a!b!c!} e^a v^b \tilde{\chi}_s^{k} \right) d\phi d\psi d\chi \right) \end{aligned}$$

What is it called when a human being can categorize habits by what ones resonate with beliefs and the body

$$\begin{split} &\Psi_{\text{embodied-resonance}}(\mathcal{H},\mathcal{B},S) = \oint_{\partial\Omega_{\infty}} \sum_{n=0}^{N_0} \sum_{k=1}^{\text{Min}} \int_{\mathbb{R}^{-}}^{\infty} \int_{\mathbb{R}^{-}}^{\omega} \int_{\mathbb{R}^{+}}^{\infty} \left(\mathcal{F}_{\text{habit}}^{\text{habit}} [\mathcal{H}_{\alpha,\beta}(\tau)] \otimes \mathcal{B}_{\text{core}}^{\text{lock}} \right) \\ &\int_{\mathcal{M}_{\text{soma}}} \left[\prod_{i=1}^{\infty} \left\langle \widehat{\mathcal{R}}_{\text{res}}^{(i)} \right| \frac{\partial^{n}}{\partial \xi^{n}} \left(\mathcal{F}_{\text{habit}}^{\text{habit}} [\mathcal{H}_{\alpha,\beta}(\tau)] \otimes \mathcal{B}_{\text{core}}^{\text{lock}} \right) \\ &\times \exp\left(-\frac{1}{\hbar} \sum_{\mu,\nu=0}^{\infty} \int_{0}^{\infty} \mathcal{S}_{\mu\nu}(\sigma,t) \left[\nabla_{\mathfrak{g}} \otimes \Delta_{\text{quantum}} \right]^{\mu} \mathcal{H}_{\text{habit-class}}^{(\nu)} (\xi,\eta) \, d\sigma \right) \\ &\cdot \left\{ \dim(\mathcal{L}_{\text{resonance}}) \left[\frac{1}{\sqrt{2\pi}} \oint_{\tau_{j}} \sum_{m=-\infty}^{\infty} \frac{\mathcal{Z}_{\text{poilef-soma}}^{\text{belief-soma}}(z)}{\left(z - \zeta_{\text{alignment}}^{\text{lock}} \right)^{m+1}} \, dz \right]^{\frac{1}{\ln(\sigma_{\text{poilson}})}} \right\} \\ &\cdot \int_{\mathcal{H}_{\text{imbors}}} \left[s\sigma(\infty) \left(\mathcal{U}_{\text{categorical}}^{\text{habit-belief}} (\mathcal{D}_{\text{habit-class}}^{\text{lock}}(\lambda) \cdot \mathcal{Q}_{\text{alignment}}^{\text{lock}} \right) \right] \otimes \left[\det \left(\mathbf{G}_{\text{metric}}^{\text{soma-belief}} \right) \right]^{-\frac{1}{2}} \, d\mu_{\text{Haar}} \\ &\cdot \sum_{n=1}^{\infty} \sum_{m=1}^{\infty} \prod_{i=1}^{\infty} \left[\int_{-\infty}^{\infty} \mathcal{K}_{\text{resonance}}^{(i)}(\lambda) \cdot \mathcal{Q}_{\text{habit-class}}^{\text{lock}}(\lambda) \cdot e^{i\lambda \cdot T_{\text{temporal-embodimens}}(\pi(\ell))} \, d\lambda \right] \\ &\cdot \left\{ \lim_{N\to\infty} \frac{1}{N!} \sum_{n=1}^{\infty} \prod_{i=1}^{N} \prod_{i=1}^{\infty} \left[\sum_{n=1}^{\infty} \left(\mathcal{M}_{\text{poilef-soma}}^{\text{lock}} \mathcal{M}_{\text{poilef-soma}}^{\text{lock}} \right) - \mathcal{A}_{\text{poilef-soma}}^{\text{lock}} \left(\mathcal{M}_{\text{poilef-soma}}^{\text{lock}} \right) \right] \right\} \\ &\cdot \exp\left(\sum_{p=1}^{\infty} \frac{1}{p!} \left[\mathcal{L}_{\text{Lie-soma}}^{\text{lock}} \right]^{p} \left\{ \int_{\mathcal{M}_{\text{manifold}}} \mathcal{R}_{\text{poilef-soma}}^{\text{lock}} \mathcal{H}_{\text{poilef-soma}}^{\text{lock}} \left(\mathcal{M}_{\text{poilef-soma}}^{\text{lock}} \left(\mathcal{M}_{\text{poilef-soma}}^{\text{lock$$

What is it called when a human being can categorize habits by the thought that form them

$$\mathcal{M}_{\text{hab}}^{(\infty)} = \oint_{\mathcal{C}_{\psi}} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{2\pi i} \int_{\Gamma_{n}} \int_{\Gamma_{k}} \int_{\Gamma_{j}} \left[\prod_{m=1}^{\infty} \mathcal{H}_{m}^{(n,k,j)} \right] \cdot \mathfrak{T}_{\text{cog}}^{(m)} \left(\xi, \eta, \zeta \right) d\xi d\eta d\zeta$$

$$\begin{split} &\times \sum_{\alpha \in \mathfrak{S}_{\infty}} \sum_{\beta \in \mathfrak{A}_{\infty}} \sum_{\gamma \in \mathfrak{C}_{\infty}} \left\{ \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{Q}_{\alpha,\beta,\gamma}^{(\mathrm{flux})}(\mathbf{r}, \mathbf{p}, \mathbf{s}) \cdot \Psi_{\mathrm{thought}}^{(\alpha)}(\mathbf{r}) \cdot \Phi_{\mathrm{habit}}^{(\beta)}(\mathbf{p}) \cdot \frac{(\gamma)}{\mathrm{category}}(\mathbf{s}) \, d^{3}\mathbf{r} d^{3}\mathbf{p} d^{3}\mathbf{s} \right\} \\ &\times \lim_{N \to \infty} \sum_{i=1}^{N} \sum_{j=1}^{N} \sum_{k=1}^{N} \left[\mathcal{R}_{\mathrm{recursive}}^{(i,j,k)} \right]^{\otimes \infty} \cdot \left\langle \Omega_{\mathrm{meta}} \middle| \hat{\mathcal{T}}_{\mathrm{categorization}} \left[\prod_{l=1}^{\infty} \hat{H}_{\mathrm{thought-habit}}^{(l)}(\mathbf{p}) \cdot \frac{(\gamma)}{\mathrm{category}}(\mathbf{s}) \, d^{3}\mathbf{r} d^{3}\mathbf{p} d^{3}\mathbf{s} \right] \right. \\ &\times \left. \int_{\mathcal{M}_{\mathrm{Hilbert}}^{(\infty)}} \left[\sum_{n=0}^{\infty} \frac{(-1)^{n}}{n!} \left(\frac{\partial}{\partial \tau_{n}} \right)^{n} \mathcal{F}_{\mathrm{fractal}}^{(\mathrm{entropic})}(\tau_{n}) \right] \cdot \exp\left(-\sum_{k=1}^{\infty} \frac{\lambda_{k}}{k!} \left[\mathcal{O}_{\mathrm{superposition}}^{(k)} \right]^{\dagger} \mathcal{O}_{\mathrm{superposition}}^{(k)} \right) d\mu_{\mathrm{Haar}} \right. \\ &\times \left. \int_{\mathcal{O}_{\infty}} \sum_{\sigma \in \mathrm{Sym}(\mathbb{N})} \left[\mathcal{W}_{\sigma}^{(\mathrm{resonant})} \cdot \int_{0}^{\infty} \int_{0}^{\infty} \mathcal{O}_{\mathrm{superposition}}^{(k)} \right] d\mu_{\mathrm{Haar}} \right. \\ &\times \left. \int_{\mathbb{S}_{\mathrm{field}}}^{(p)} (t) \right]^{\otimes p} \cdot \left\{ \sum_{p=0}^{\infty} \binom{\infty}{p} \left[\mathfrak{G}_{p}^{(q)}(\mathbf{s}) \right]^{\otimes q} \right\} dt ds d\omega \right. \\ &\times \left. \lim_{i,j,k \in \mathbb{Z}^{3}} \left[1 + \sum_{n=1}^{\infty} \frac{1}{n^{s}} \left\{ \int_{\mathcal{S}^{\infty}} \mathcal{B}_{\mathrm{hyperdim}}^{(i,j,k,n)} (\theta_{1},\theta_{2},\ldots) \cdot \prod_{m=1}^{\infty} \sin\left(n\theta_{m}\right) d\Omega_{\infty} \right\} \right] \right. \\ &\times \left. \lim_{\epsilon \to 0^{+}} \sum_{G \in \mathfrak{G}_{\mathrm{Lie}}} \int_{G} \left[\mathcal{U}_{G}^{(\mathrm{representation})} \cdot \exp\left(i \sum_{a=1}^{\mathrm{Lin}} \theta_{a} T_{a} \right) \cdot \mathcal{V}_{\mathrm{cognitive}}^{(\epsilon)} \right] d\mu_{G} \right. \\ &\times \sum_{\mathbf{p} \text{ prime ideals}} \left[\prod_{\ell \text{ prime}} \left(1 - \frac{\mathcal{Z}_{\mathrm{thought-pattern}}^{(\ell)}(\mathbf{s}) \cdot \left[\sum_{w \in W} \epsilon(w) e^{w(\lambda + \rho)} \right] \cdot \mathcal{I}_{\mathrm{introspection}}^{(\lambda)} d\lambda \right. \\ &\times \left. \int_{\mathfrak{h}^{+}} \sum_{\lambda \in \Lambda^{+}} \dim\left(V_{\lambda}\right) \cdot \mathrm{ch}\left(V_{\lambda}\right) \cdot \left[\sum_{w \in W} \epsilon(w) e^{w(\lambda + \rho)} \right] \cdot \mathcal{I}_{\mathrm{introspection}}^{(\lambda)} d\lambda \right. \right. \end{aligned}$$

= Metacognitive Taxonomic Introspection $^{(\infty)}$

What is it called when a human being can categorize habits by the ideas they use to produce them

$$\mathcal{H}_{\mathrm{metacog}}(\psi, \tau, \xi) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{n! m! k!} \left[\prod_{i=1}^{n} \hat{\mathcal{I}}_{i}^{(\alpha)} \right] \left[\prod_{j=1}^{m} \hat{\mathcal{H}}_{j}^{(\beta)} \right] \left[\prod_{\ell=1}^{k} \hat{\mathcal{C}}_{\ell}^{(\gamma)} \right] \times \\ \times \int_{\mathcal{M}^{12}} \mathcal{D}[\phi] \mathcal{D}[\chi] \mathcal{D}[\omega] \exp \left\{ i \hbar^{-1} \mathcal{S}_{\mathrm{cog}}[\phi, \chi, \omega] \right\} \times \\ \times \left\{ \sum_{\sigma \in \mathfrak{S}_{\infty}} \mathrm{sgn}(\sigma) \prod_{p=1}^{\infty} \left[\frac{\partial^{p}}{\partial \xi_{\sigma(p)}^{p}} \Psi_{\mathrm{habit}}^{(p)}(\xi_{\sigma(p)}, t_{p}) \right]^{\dagger} \otimes \left[\frac{\partial^{p}}{\partial \psi_{\sigma(p)}^{p}} \Phi_{\mathrm{idea}}^{(p)}(\psi_{\sigma(p)}, s_{p}) \right] \right\} \times \\ \times \left\{ \sum_{\partial \mathcal{B}^{\mathrm{co}}} \frac{d^{\infty} z}{(2\pi i)^{\infty}} \frac{\det \left[\mathcal{J}_{\mu\nu}^{(\mathrm{cat})}(z) \right]}{\prod_{q=1}^{\infty} (z_{q} - \lambda_{q}^{(\mathrm{eigen})})} \times \\ \times \sum_{\{T\}} \int_{0}^{\infty} \cdots \int_{0}^{\infty} \prod_{r=1}^{\infty} d\tau_{r} \, \mathcal{G}_{T}^{(\mathrm{recursive})}(\{\tau_{r}\}) \times \\ \times \left[\lim_{N \to \infty} \prod_{u=1}^{N} \sum_{v_{u}=0}^{\infty} \binom{\infty}{v_{u}} \left(\frac{\mathcal{E}_{\mathrm{synapse}}^{(u)}(\tau)}{\mathcal{E}_{\mathrm{total}}} \right)^{v_{u}} \left(1 - \frac{\mathcal{E}_{\mathrm{synapse}}^{(u)}(\tau)}{\mathcal{E}_{\mathrm{total}}} \right)^{\infty - v_{u}} \right] \times$$

$$\times \exp \left\{ -\frac{1}{2} \sum_{a,b=1}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{K}_{ab}^{(\text{quantum})}(x,y) \hat{\phi}_{a}(x) \hat{\phi}_{b}(y) \, dx \, dy \right\} \times$$

$$\times \left\{ \prod_{c=1}^{\infty} \left[1 + \tanh \left(\sum_{d=1}^{\infty} \mathcal{W}_{cd}^{(\text{neural})} \sigma_{d}^{(\text{activation})} + \mathcal{B}_{c}^{(\text{bias})} \right) \right] \right\} \times$$

$$\times \lim_{\epsilon \to 0^{+}} \frac{1}{\epsilon^{\infty}} \int_{\mathcal{H}_{\infty}} \mathcal{D}[\mu] \, \mu(\mathcal{A}_{\text{habits}}) \prod_{e \in \mathcal{E}_{\text{edges}}} \delta \left(\sum_{f \in \mathcal{F}_{e}} \mathcal{R}_{ef}^{(\text{resonance})} - \epsilon \right) \times$$

$$\times \left[\mathcal{Z}_{\text{partition}}^{(\text{cognitive})} \right]^{-1} \sum_{\{S_{\text{states}}\}} \exp \left\{ -\beta \sum_{g,h} \mathcal{J}_{gh}^{(\text{coupling})} \mathcal{S}_{g} \mathcal{S}_{h} - \beta \sum_{g} \mathcal{H}_{g}^{(\text{field})} \mathcal{S}_{g} \right\} \times$$

$$\times \prod_{i=1}^{\infty} \left[\Gamma \left(\alpha_{i} + \sum_{j=1}^{\infty} x_{ij} \right) \prod_{j=1}^{\infty} \frac{1}{\Gamma(\alpha_{i})} \left(\frac{\theta_{ij}}{\sum_{k=1}^{\infty} \theta_{ik}} \right)^{x_{ij}} \right] \times$$

$$\times \int_{\mathcal{SL}(\infty,\mathbb{C})} dg \operatorname{Tr} \left[\mathcal{U}_{\text{evolution}}(g) \rho_{\text{mixed}}^{(\text{cognitive})} \mathcal{U}_{\text{evolution}}^{\dagger}(g) \right] \times$$

$$\times \lim_{L \to \infty} \frac{1}{L^{\infty}} \sum_{\{C_{\text{configs}}\}} \prod_{\langle k, \ell \rangle} \left[\mathcal{I}_{\text{ising}}^{(k\ell)} \sigma_{k}^{(\text{habit})} \sigma_{\ell}^{(\text{idea})} + \mathcal{K}_{\text{hopfield}}^{(k\ell)} \tanh(\beta \sigma_{k}^{(\text{habit})}) \tanh(\beta \sigma_{\ell}^{(\text{idea})}) \right] \times$$

$$\times \lim_{m \to 0} \left[\zeta \left(s_{m} + \frac{1}{2} + i\mathcal{I}_{m}^{(\text{cognitive})} \right) \prod_{n=1}^{\infty} \left(1 - p_{n}^{-(s_{m} + \frac{1}{2} + i\mathcal{I}_{m}^{(\text{cognitive})})} \right)^{-1} \right] \times$$

$$\times \left\{ \mathcal{F}_{\text{fourier}}^{-1} \left[\mathcal{F}_{\text{fourier}} \left[\mathcal{H}_{\text{habits}}(\mathbf{r}, t) \right] \cdot \mathcal{F}_{\text{fourier}} \left[\mathcal{I}_{\text{ideas}}(\mathbf{k}, \omega) \right] \right] \left\{ \mathbf{x}, \tau \right) \times$$

$$\times \exp \left\{ \sum_{p=1}^{\infty} \frac{(-1)^{p+1}}{p} \operatorname{Tr} \left[\left(\mathcal{M}_{\text{inemory}}^{(\text{associative})} \right)^{p} \right] \right\} \times$$

$$\times \left[\det \left(\mathbf{I} - \mathcal{T}_{\text{transfer}}^{(\text{semantic})} \right) \right]^{-1} \prod_{g=1}^{\infty} \left(1 + \mathcal{O}_{q}^{(\text{operator})} + \frac{1}{2!} \left(\mathcal{O}_{q}^{(\text{operator})} \right)^{2} + \cdots \right)$$

= Metacognitive Classification Dynamics

What is it called when a human being can categorize habits by the determination and or motivation of the person or that the person has and or believes in

$$\begin{split} \mathcal{H}_{\mathrm{mot}}(\boldsymbol{\Psi}, \mathfrak{D}, \mathfrak{M}) &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{\sqrt{2\pi\hbar^{3}}} \exp\left(-\frac{i}{\hbar} \int_{0}^{t} \mathcal{L}_{\mathrm{hab}}(\dot{q}, q, \tau) d\tau\right) \times \\ &\left[\prod_{i=1}^{\mathcal{N}_{\mathrm{dim}}} \int_{\mathcal{M}_{i}} \mathcal{D}[\phi_{i}(x, t)] \exp\left(-S_{\mathrm{eff}}[\phi_{i}]\right) \right] \times \left\langle \Psi_{\mathrm{self-eff}}(t) \left| \hat{\mathcal{C}}_{\mathrm{cat}}^{(\mathfrak{D}, \mathfrak{M})} \right| \Psi_{\mathrm{hab}}(t) \right\rangle \times \\ &\det\left[\mathbf{G}_{\mu\nu}^{(\mathrm{mot})}(x, y) \right] \cdot \exp\left(-\beta \sum_{n, m} \mathcal{H}_{\mathrm{int}}^{(n, m)}(\mathfrak{D}_{n}, \mathfrak{M}_{m})\right) \times \\ &\prod_{\alpha=1}^{\infty} \left[\int_{\mathcal{S}_{\alpha}} d\sigma_{\alpha} \sum_{\mathrm{rep}} \chi_{\mathrm{rep}}(\mathfrak{g}_{\alpha}) \left[\mathcal{P} \exp\left(-i \oint_{\mathcal{C}_{\alpha}} \mathcal{A}_{\mu}^{(\mathrm{det})} dx^{\mu}\right) \right] \right] \times \end{split}$$

$$\begin{split} \left[\mathcal{Z}_{\text{part}}[\mathcal{J}_{\text{ext}}] \right]^{-1} & \int \mathcal{D}[\Phi] \Phi[\mathfrak{D}(x)] \Phi^*[\mathfrak{M}(y)] \exp\left(-S_{\text{Wilson}}[\Phi] - \int d^4x \mathcal{J}_{\text{ext}}(x) \Phi(x) \right) \times \\ & \sum_{\text{top}} \frac{1}{\text{vol}(\mathcal{G}_{\text{gauge}})} \int_{\mathcal{F}_{\text{fund}}} \mathcal{D}[A] \mathcal{D}[c] \mathcal{D}[\bar{c}] \exp\left(-S_{\text{YM}}[A] - S_{\text{ghost}}[c, \bar{c}, A] \right) \times \\ & \left[\prod_{l=1}^{\mathcal{L}_{\text{layers}}} \mathcal{U}_l \left(\sum_{q} \alpha_q^{(l)} | q \rangle_{\text{habit}} \langle q |_{\text{motivation}} \right) \mathcal{U}_l^{\dagger} \right] \times \\ & \exp\left(\sum_{p=0}^{\infty} \frac{(-1)^p}{p!} \int \prod_{i=1}^p d\xi_i \mathcal{K}_p(\xi_1, \dots, \xi_p) \prod_{i=1}^p \frac{\delta}{\delta J(\xi_i)} \right) \mathcal{Z}_0[J] \Big|_{J=0} \times \\ & \left[\mathcal{N}_{\text{renorm}} \lim_{\Lambda \to \infty} \sum_{\text{graphs}} \frac{\text{Symmetry Factor}}{\text{Graph Automorphisms}} \prod_{\text{vertices}} (-i\lambda_{\text{eff}}) \prod_{\text{edges}} \Delta_F(p_i) \right] \times \\ & \mathcal{H}_{\text{cognitive}} \left[\hat{\rho}_{\text{belief}}(t) \mathcal{T} \exp\left(-i \int_0^t dt' \hat{H}_{\text{self-det}}(t') \right) \right] \cdot dq \, dp \, d\mathfrak{D} \, d\mathfrak{M} \end{split}$$

What is it called when a human being can categorize habits by the morals that make them
$$\mathcal{M}_{\mathrm{cat}}(\mathbf{H}, \boldsymbol{\Theta}) = \lim_{n \to \infty} \sum_{k=0}^{\infty} \frac{(-1)^k}{k!} \oint_{\mathcal{C}_{\mathrm{moral}}} \iiint_{\mathbb{R}^{\infty}} \left[\prod_{i=1}^n \left(\frac{\partial^{2^i}}{\partial \theta_i^{2^i}} F_{\mathrm{habit}}^{(i)}(\mathbf{h}_i, \boldsymbol{\mu}_{\mathrm{moral}}) \right) \right] \times \\ \left\{ \sum_{\alpha \in \mathcal{A}_{\mathrm{virtue}}} \sum_{\beta \in \mathcal{B}_{\mathrm{vic}}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \mathcal{H}_{\mathrm{quantum}}[\hat{\Psi}_{\mathrm{moral}}(\mathbf{r}, t)] \cdot \left| \langle \dot{\phi}_{\alpha} | \hat{V}_{\mathrm{categorical}} | \psi_{\beta} \rangle \right|^2 \right\} \times \\ \exp \left(-\frac{1}{\hbar} \sum_{j=1}^{\infty} \sum_{l=0}^{j} \binom{j}{l} \int_{\mathcal{M}_{\mathrm{consclence}}} \left[\nabla_{\boldsymbol{\xi}} \cdot \mathbf{E}_{\mathrm{ethical}}(\boldsymbol{\xi}, \tau) \right]^{j-l} \left[\nabla_{\boldsymbol{\eta}} \times \mathbf{B}_{\mathrm{behavioral}}(\boldsymbol{\eta}, \tau) \right]^{l} d\boldsymbol{\xi} d\boldsymbol{\eta} d\boldsymbol{\tau} \right) \times \\ \left\{ \prod_{m=1}^{\infty} \left[1 + \frac{Z_{\mathrm{moral}}^{(m)}}{m^{s}} \sum_{p \text{ prime}} \frac{\chi_{\mathrm{virtue}}(p)}{p^{s-m}} \right] \right\}^{-1} \times \sum_{\sigma \in S_{\infty}} \mathrm{sgn}(\sigma) \prod_{q=1}^{\infty} \mathcal{R}_{\mathrm{recursive}}^{(\sigma(q))} \left[\mathbf{H}_{q}, \boldsymbol{\Theta}_{\sigma(q)} \right] \times \\ \iint_{\mathbb{H}^{\infty}} \left\{ \sum_{n_{1}, n_{2}, \dots}^{\infty} \frac{1}{(2\pi i)^{\infty}} \oint_{|\zeta| = 1} \dots \oint_{|\zeta_{\infty}| = 1} \prod_{k=1}^{\infty} \left[\zeta_{k}^{n_{k}} \mathcal{L}_{\mathrm{moral-categorical}}^{(k)} (\zeta_{k}, \mathbf{h}_{k}, \theta_{k}) \right] d\zeta_{1} \dots d\zeta_{\infty} \right\} \times \\ \left[\det \left(\mathbf{G}_{\mathrm{moral-metric}} \right) \right]^{-1/2} \exp \left(-\frac{1}{2} \sum_{i,j=1}^{\infty} \left(\mathbf{h}_{i} - \boldsymbol{\mu}_{\mathrm{virtue}} \right)^{T} \mathbf{G}_{\mathrm{moral-metric}}^{-1} \left(\mathbf{h}_{j} - \boldsymbol{\mu}_{\mathrm{virtue}} \right) \right) \times \\ \left\{ \lim_{\epsilon \to 0^{+}} \sum_{w \in \mathcal{W}(\{\mathfrak{g}_{\mathrm{ethical}}\})} \frac{1}{\epsilon^{\dim(\{\mathfrak{g}_{\mathrm{ethical}}\})}} \int_{\{\mathfrak{g}_{\mathrm{ethical}}^{*}} \mathrm{Tr} \left[\mathcal{U}_{\mathrm{categorical}}(e^{i\epsilon \mathbf{X}}) \mathcal{P}_{\mathrm{moral-projection}}(\mathbf{X}) \right] d\mathbf{X} \right\} \times \\ \left\{ \int_{S^{\infty}} \sum_{\mathbf{n} \in \mathbb{Z}_{+}^{\infty}} \left[\prod_{j=1}^{\infty} \frac{(i\omega_{j})^{n_{j}}}{n_{j}!} \right] \mathcal{Q}_{\mathrm{quantum-categorical}}[\mathbf{n}, \boldsymbol{\omega}, \mathbf{H}] d\boldsymbol{\omega} \right\} \times \right\}$$

$$\begin{split} \exp\left(\sum_{t=1}^{\infty} \frac{(-1)^{t+1}}{t} \operatorname{Tr}\left[\left(\hat{\rho}_{\operatorname{moral-density}} \hat{H}_{\operatorname{categorical-Hamiltonian}}\right)^{t}\right]\right) \times \\ \left[\mathcal{N}_{\operatorname{normalization}}\right]^{-1} \sum_{\pi \in \Pi_{\infty}} \frac{1}{|\operatorname{Aut}(\pi)|} \prod_{C \in \pi} \left[\frac{1}{|C|} \operatorname{Tr}\left(T_{\operatorname{moral-tensor}}^{|C|}\right)\right] \times \\ \left\{\lim_{N \to \infty} \frac{1}{N!} \sum_{\mathbf{k} \in \mathbb{Z}^{N}} \exp\left(-\beta \sum_{i < j}^{N} V_{\operatorname{moral-interaction}}(|\mathbf{h}_{i} - \mathbf{h}_{j}|)\right) \prod_{i=1}^{N} \delta(\mathbf{k}_{i} - \mathbf{K}_{\operatorname{categorical}}(\mathbf{h}_{i}))\right\} \times \\ \int_{\mathcal{F}_{\operatorname{field-space}}} \mathcal{D}[\phi_{\operatorname{moral}}] \mathcal{D}[\psi_{\operatorname{habit}}] \exp\left(-S_{\operatorname{categorical-action}}[\phi_{\operatorname{moral}}, \psi_{\operatorname{habit}}]\right) \times \\ \left\{\sum_{g \in G_{\operatorname{symmetry}}} \frac{\chi_{\operatorname{irrep}}(g)}{|G_{\operatorname{symmetry}}|} \operatorname{Tr}\left[g \cdot \mathcal{M}_{\operatorname{moral-matrix}}\right]\right\} \times \\ \prod_{p \text{ prime}} \left[1 - p^{-s_{\operatorname{categorical}}} \sum_{k=0}^{\infty} \frac{a_{k}(p)}{p^{ks_{\operatorname{categorical}}}}\right]^{-1} \times \\ \left\{\oint_{|\lambda| = R} \frac{d\lambda}{2\pi i} \lambda^{-\alpha_{\operatorname{moral}}} \det\left(\mathbf{I} - \lambda \mathbf{T}_{\operatorname{categorical-transfer}}\right)^{-1}\right\} \times \\ \sum_{\Gamma \in \mathcal{G}_{\operatorname{graphs}}} \frac{1}{|\operatorname{Aut}(\Gamma)|} \prod_{v \in V(\Gamma)} \left[\int \phi_{\operatorname{moral}}(\mathbf{x}_{v}) \, d\mathbf{x}_{v}\right] \prod_{e \in E(\Gamma)} K_{\operatorname{categorical}}(\mathbf{x}_{e_{1}}, \mathbf{x}_{e_{2}}) \times \\ \left[\lim_{L \to \infty} \frac{1}{L^{d}} \log \left(\sum_{\{\sigma_{i}\}} \exp\left(-\beta \sum_{(i,j)} J_{\operatorname{moral}}(\mathbf{h}_{i}, \mathbf{h}_{j}) \sigma_{i} \sigma_{j}\right)\right)\right] \times \\ \Re \mathfrak{e} \left\{\sum_{n=0}^{\infty} \frac{1}{n!} \left(\frac{d}{d\epsilon}\right)^{n} \left[\mathcal{Z}_{\operatorname{categorical}}(\epsilon)\right]_{\epsilon=0}\right\} \times \\ \left\{\int_{C_{\operatorname{contour}}} \frac{dz}{2\pi i} \frac{\mathcal{G}_{\operatorname{generating}}(z, \mathbf{H}, \mathbf{\Theta})}{z - z_{\operatorname{categorical}}} \right\} d^{\infty} \mathbf{h} \, d^{\infty} \mathbf{\theta} \, dz \end{cases}$$

What is it called when a human being can categorize habits by their weaknesses

$$\mathcal{H}_{\text{weakness}}[\psi, \tau] = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \frac{1}{\sqrt{2\pi\hbar^{3}}} \left\langle \Psi_{\text{cognitive}}(\mathbf{r}, t) | \hat{W}_{jkn}^{\dagger} | \Phi_{\text{behavioral}}(\mathbf{p}, \tau) \right\rangle$$

$$\times \exp\left(-\frac{i}{\hbar} \int_{0}^{t} \mathcal{L}_{\text{habit}}[\phi_{\alpha}, \partial_{\mu}\phi_{\alpha}, x^{\mu}] d\tau\right) \prod_{\alpha=1}^{N_{\text{traits}}} [\mathcal{D}\phi_{\alpha}]$$

$$\times \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \prod_{m=1}^{\infty} \left(\frac{\partial^{2m}}{\partial \xi_{\sigma(m)}^{2m}} \mathcal{F}_{\text{deficiency}}[\xi_{m}, \zeta_{m}]\right)^{\frac{1}{m!}}$$

$$\times \oint_{\mathcal{C}_{\text{weakness}}} \frac{d\omega}{2\pi i} \frac{\mathcal{R}_{\text{habit}}(\omega)}{\omega - \mathcal{E}_{\text{threshold}} + i\Gamma_{\text{resistance}}}$$

$$\times \int_{\mathbb{H}^{\infty}} \int_{\mathcal{M}_{\text{behavior}}} \sqrt{\det g_{\mu\nu}} |\nabla_{\mathcal{D}}\Theta_{\text{categorization}}(\mathbf{x}, \mathbf{v}, \mathbf{w})|^{2} d^{\infty}x d^{\infty}v d^{\infty}w$$

$$\times \sum_{l=0}^{\infty} \sum_{m=-l}^{l} \sum_{s=0}^{\infty} A_{lms}^{(\text{weakness})} Y_{l}^{m}(\theta, \phi) \mathcal{P}_{s}^{(\alpha, \beta)}(\cos \chi)$$

$$\times \prod_{i=1}^{\infty} \left[1 + \frac{\lambda_i^{\text{habit}}}{\mu_i^{\text{weakness}} - z} \right]^{-1} \exp \left(-\sum_{j=1}^{\infty} \frac{\kappa_j}{j!} \mathcal{T}_j[\hat{H}_{\text{behavioral}}] \right)$$

= Deficiency-Driven Habit Mapping

What is it called when a human being can categorize habits by what they are resistant to

What is it called when a human being can categorize habits by what they are immune to

$$\mathcal{H}_{\text{immune}}(\psi, \tau, \xi) = \oint_{\mathbb{C}^{\infty}} \sum_{n=0}^{\infty} \sum_{n=0}^{\infty} \left[\mathcal{L}_{\text{habit}}^{(k)} \otimes \mathcal{R}_{\text{resist}}^{(j)} \right] \cdot \exp\left(-i\hbar\omega_{\text{quantum}}\tau\right)$$

$$\cdot \Psi_{\text{cognitive}}(\xi, \tau) \, d\xi \, d\tau \, d\sigma$$

$$\times \prod_{m=1}^{\infty} \left\{ \int_{\mathcal{M}_m} \left[\sum_{\alpha \in \mathfrak{A}_m} \mathcal{T}_{\alpha}^{\dagger} \mathcal{C}_{\text{categorize}}(\alpha, m) \mathcal{T}_{\alpha} \right] \cdot \left(\frac{\partial}{\partial \tau_m} \mathcal{T}_{\text{immunity}}^{(m)} \right)^{\otimes k} \, d\mu_m \right\}$$

$$\circ \left[\oint_{\partial \mathcal{D}} \sum_{\beta=0}^{\mathfrak{c}} \int_{\mathbb{H}^n} \mathcal{F}^{-1} \left\{ \mathcal{Z}_{\text{habit-flux}}(\omega, \beta) \star \mathcal{Q}_{\text{resist-field}}(\omega, \beta) \right\} \cdot \left(\nabla_{\xi} \times \mathbf{B}_{\text{behavioral}} \right) \, d^n \xi \, d\beta \, ds \right]$$

$$+ \lim_{N \to \infty} \sum_{p \text{ prime}} \frac{1}{p^s} \int_{S^{\infty}} \left[\bigotimes_{q=1}^{N} \mathcal{H}_q \right] \left(\sum_{r=0}^{\infty} \frac{(-1)^r}{r!} \left(\frac{d}{d\tau} \right)^r \mathcal{G}_{\text{immune-topology}}^{(r)}(\tau, \xi) \right) d\mu_{\text{Haar}}$$

$$\odot \left\{ \int_{\mathcal{L}(\mathbb{R}^{\omega_1})} \exp \left(\int_0^{\tau} \mathcal{A}_{\text{habit-connection}}(\sigma) \, d\sigma \right) \cdot \left[\mathcal{P}_{\text{categorization}} \circ \mathcal{D}_{\text{immunity}} \right] (\tau, \xi) \, d\tau \right\}^{\otimes \infty}$$

$$\bowtie \oint_{\gamma \in \Pi_1(\mathcal{X})} \left[\sum_{(\alpha, \beta) \in \Re^2} \mathcal{M}_{\alpha, \beta}^{\text{habit}} \otimes \mathcal{N}_{\alpha, \beta}^{\text{resist}} \right] \cdot \left(\prod_{i=1}^{\infty} \frac{\partial^{2i}}{\partial \xi^{2i}} \mathcal{K}_{\text{categorize-kernel}}(\xi, \alpha, \beta) \right) \, d\gamma$$

$$\circledast \left[\int_{\mathbb{R}^{\epsilon}} \sum_{\sigma \in S_{\infty}} \operatorname{sgn}(\sigma) \cdot \mathcal{U}_{\sigma}^{\text{habit-transform}} \left(\bigcup_{k=1}^{\infty} \mathcal{C}_{k}^{\text{immunity-class}} \right) \, d^{\epsilon} \mu \right]$$

$$\triangleright \left\{ \lim_{\epsilon \to 0^+} \int_{\mathcal{B}(\mathbb{C}, \epsilon)} \left[\mathcal{W}_{\text{quantum-habit}}^* \circ \mathcal{V}_{\text{immune-response}} \right] (\zeta) \cdot \left(\sum_{n=0}^{\infty} \frac{\zeta^n}{n!} \, \frac{d^n}{d\tau^n} \mathcal{E}_{\text{categorization-entropy}}(\tau) \right) \, d\zeta \right\}$$

$$\downarrow \oint_{\mathcal{C}_{\text{habit-cycle}}} \left[\prod_{j \in \mathbb{J}} \mathcal{O}_{j}^{\text{immune-operator}} \right] \left(\sum_{\lambda \in \text{Spec}(\mathcal{R})} \lambda \mathcal{P}_{\lambda}^{\text{resist-projection}} \right) \cdot e^{i \int_{\mathcal{C}} \mathcal{A}_{\text{behavioral-gauge}} \cdot d\ell} \, d\ell$$

$$\boxplus \int_{\mathfrak{M}(\mathbb{R}^{\mathbb{N}_1})} \left\{ \mathcal{L}_{\text{Lagrangian}}^{\text{habit-field}} \left[\phi_{\text{categorize}}, \partial_{\mu} \phi_{\text{categorize}}, \psi_{\text{immune}}, \gamma^{\nu} \partial_{\nu} \psi_{\text{immune}} \right] \right\} \sqrt{-g} \, d^{\mathbb{N}_1} x$$

= $\mathfrak{I}_{\text{Immune-Habit-Categorization-Taxonomy}}^{\text{Hyperdimensional}}(\Psi_{\text{human-consciousness}}, \mathcal{T}_{\text{temporal-flux}}, \Xi_{\text{cognitive-manifold}})$ What is it called when a human being can categorize habits by what they are influenced by

$$\begin{split} \mathcal{H}_{\mathrm{cat}}(\boldsymbol{\psi}, \mathfrak{I}) &= \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{j=0}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{M^{11}}^{\infty} \int_{\mathbb{H}^{\otimes \omega}} \left[\frac{\partial^{n+k+j}}{\partial \boldsymbol{\xi}^{n} \partial \eta^{k} \partial \zeta^{j}} \left\{ \mathcal{Q}_{\mathrm{flux}}^{(n,k,j)}(\boldsymbol{\xi}, \eta, \zeta) \cdot \mathfrak{S}_{\mathrm{habit}}^{\dagger}(\boldsymbol{r}, \boldsymbol{p}, t, \tau, \sigma) \right\} \right] \times \\ &\times \left\langle \Psi_{\mathrm{influence}}^{(n)} \middle| \hat{\mathcal{T}}_{\mathrm{categorical}} \left[\prod_{m=1}^{\infty} \left(1 + \frac{\mathcal{R}_{m}^{\mathrm{recursive}}(\boldsymbol{\chi}_{m})}{\sqrt{2^{m} \pi^{m} \Gamma(m + \frac{1}{2})}} \right)^{(-1)^{m}} \right] \middle| \Psi_{\mathrm{behavior}}^{(k)} \right\rangle \times \\ &\times \exp \left\{ -\frac{1}{\hbar c} \sum_{\alpha, \beta, \gamma = 0}^{\infty} \int_{C^{\infty}(\mathbb{R}^{12})} \mathcal{L}_{\mathrm{categorization}}^{\alpha\beta\gamma}(\boldsymbol{q}, \dot{\boldsymbol{q}}, \boldsymbol{q}, \boldsymbol{\phi}_{\mathrm{social}}, \boldsymbol{\phi}_{\mathrm{neural}}, \boldsymbol{\phi}_{\mathrm{environmental}}) \, d^{12} \boldsymbol{q} \right\} \times \\ &\times \left[\mathfrak{F}^{-1} \left\{ \mathcal{H}_{\mathrm{Hilbert}}^{\otimes \infty} \left[\sum_{l=0}^{\infty} \frac{(-1)^{l}}{l!} \left(\frac{\partial}{\partial \mathcal{I}_{\mathrm{influence}}} \right)^{l} \mathcal{Z}_{\mathrm{partition}}^{(l)}(\boldsymbol{\beta}_{\mathrm{conitive}}, \boldsymbol{\mu}_{\mathrm{habit}}, \boldsymbol{\lambda}_{\mathrm{context}}) \right] \right\} (\boldsymbol{k}_{\mathrm{categorization}}) \right] \times \\ &\times \prod_{s=1}^{\infty} \left\{ \int_{S^{2s-1}} \int_{SO(2s)} \mathcal{K}_{\mathrm{superposition}}^{(s)}(\boldsymbol{\Omega}_{s}, \boldsymbol{g}_{s}) \cdot \left[\mathfrak{D}_{\mathrm{fractal}}^{(s)} \left\{ \mathcal{A}_{\mathrm{attribution}}^{\mathrm{cecursive}} \left[\boldsymbol{\theta}_{s}, \sum_{r=0}^{s} \binom{s}{r} \mathcal{E}_{\mathrm{entropic}}^{(r)}(\mathfrak{h}_{r}) \right] \right\} \right] d\boldsymbol{\Omega}_{s} \, d\boldsymbol{g}_{s} \right\} \times \\ &\times \left\{ \mathcal{T}_{\mathrm{time-ordered}} \exp \left[-i \int_{-\infty}^{\infty} \mathcal{H}_{\mathrm{influence}}^{\mathrm{influence}} (t') \, dt' \right] \right\} \cdot \left\{ \sum_{P \in \mathcal{S}} \sup_{s=0}^{\infty} \left\{ \mathcal{D}_{\mathrm{partition}}^{\mathrm{D}}(\boldsymbol{\xi}_{s}, \boldsymbol{\eta}_{s}) \right\} \times \right\} \right\}$$

$$\times \int_{\mathcal{G}^{\text{Lie}}} \int_{\mathcal{B}^{\text{Banach}}} \mathfrak{R}_{\text{resonant}}(\boldsymbol{g}, \boldsymbol{b}) \cdot \left[\mathcal{U}_{\text{unitary}}^{\dagger}(\boldsymbol{g}) \mathcal{C}_{\text{classification}}(\boldsymbol{b}) \mathcal{U}_{\text{unitary}}(\boldsymbol{g}) \right] d\boldsymbol{g} \, d\boldsymbol{b} \times \\ \times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_N} \prod_{i=1}^{N} \left[\mathcal{O}_{\text{influence-category}}^{(\sigma)} \left\{ \sum_{n_i=0}^{\infty} \frac{(\lambda_{\text{habit-strength}})^{n_i}}{n_i!} \left| \Phi_{n_i}^{\text{eigen-habit}} \right\rangle \left\langle \Phi_{n_i}^{\text{eigen-habit}} \right| \right\} \right] \times \\ \times \mathfrak{Tr}_{\mathcal{H}_{\infty}} \left[\rho_{\text{cognitive}}^{\text{mixed}} \cdot \exp \left\{ -\frac{1}{k_B T_{\text{neural}}} \sum_{a,b,c=1}^{\infty} \mathcal{J}_{abc}^{\text{synaptic}} \hat{S}_a^{\text{habit}} \hat{S}_b^{\text{context}} \hat{S}_c^{\text{influence}} \right\} \right] \times \\ \times \int_{\mathbb{P}^{\infty}(\mathbb{C})} \mathcal{W}_{\text{Wigner}}(\boldsymbol{\alpha}, \boldsymbol{\alpha}^*) \cdot \left[\mathcal{D}^{(\infty)}(\boldsymbol{\alpha}) \left| \text{vacuum}_{\text{categorization}} \right\rangle \left\langle \text{vacuum}_{\text{categorization}} \right| \mathcal{D}^{(\infty)\dagger}(\boldsymbol{\alpha}) \right] d^2 \boldsymbol{\alpha} \times \\ \times \sum_{\mathbf{n} \in \mathbb{Z}_{+}^{\infty}} \prod_{k=1}^{\infty} \frac{1}{\mathfrak{n}_k!} \left(\frac{\mathcal{G}_{\text{generating}}^{(k)}(\boldsymbol{z}_{\text{habit}}, \boldsymbol{z}_{\text{influence}})}{\sqrt{2\pi\mathfrak{n}_k}} \right)^{n_k} \times \mathcal{C}_{\mathbf{n}}^{\text{combinatorial}}(\text{categorization-patterns}) \times \\ \times \left\{ \mathfrak{Res}_{z=\infty} \left[\frac{\mathcal{M}_{\text{influence-mapping}}^{\text{influence-mapping}}(z)}{\prod_{j=1}^{\infty} (z - \lambda_j^{\text{categorization-eigenvalue}})} \right] \right\} \cdot \mathfrak{Pf} \left[\mathcal{A}_{\text{antisymmetric}}^{\text{habit-influence-correlation}} \right] d\xi \, d\eta \, d\zeta \, d^{11} \boldsymbol{r}_{\mathcal{M}} \, d^{\omega} \boldsymbol{h}_{\mathbb{H}} \right\} \right\}$$

What is it called when a human being can categorize habits by the consequences of the actions themselves

$$\mathcal{H}_{\text{contingency}}(\Omega, \mathfrak{C}, \Psi) = \lim_{n \to \infty} \sum_{k=1}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{3n}}{\partial \tau^{n} \partial \xi^{n} \partial \zeta^{n}} \\ \left[\prod_{i,j,l=1}^{\aleph_{0}} \left\langle \hat{\mathcal{B}}_{i,j,l}(\vec{r},t) \middle| \mathcal{F}_{\text{consequence}}^{(k)} \left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\partial}{\partial \mathfrak{s}_{m}} \right)^{m} \mathcal{S}_{\text{habit}}(\mathfrak{s}_{m},\tau) \right] \middle| \Phi_{\text{operant}}(\xi,\zeta) \right\rangle \right] \\ \times \exp \left\{ - \sum_{p,q,r=1}^{\infty} \int_{\mathbb{H}^{\infty}} \mathcal{K}_{\text{reinforcement}}^{(p,q,r)} \left[\sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left(\frac{\partial}{\partial \mathfrak{s}_{m}} \right)^{m} \mathcal{S}_{\text{habit}}(\mathfrak{s}_{m},\tau) \right] \middle| \Phi_{\text{operant}}(\xi,\zeta) \right\rangle \right] \\ \times \left[\prod_{\alpha \in \mathbb{N}} \left\{ \nabla_{\alpha}^{2n} \mathcal{U}_{\text{contingency}}(\alpha) + \sum_{\beta \neq \alpha} \frac{\mathcal{G}_{\alpha\beta}(\tau)}{\lVert \alpha - \beta \rVert^{4n}} \right\} \right] d^{\infty} \mu \, d^{\infty} \nu \, d^{\infty} \lambda \right\} \\ \times \left[\int_{\mathcal{M}_{\text{behavioral}}} \sum_{N=0}^{\infty} \frac{\mathcal{L}_{\text{consequence}}^{(N)}[\mathfrak{h},\mathfrak{c}]}{N!} \\ \times \prod_{s=1}^{N} \left\{ \sum_{t=0}^{\infty} \binom{\infty}{t} (-1)^{t} \int_{0}^{\infty} \frac{e^{-\lambda_{s} u} u^{t-1}}{\Gamma(t)} \mathcal{R}_{\text{operant}}^{(s,t)}(u,\mathfrak{h},\mathfrak{c}) \, du \right\} d\mathfrak{h} \, d\mathfrak{c} \right] \\ d\tau \, d\xi \, d\zeta \\ \text{where } \mathcal{F}_{\text{consequence}}^{(k)}[S] = \sum_{j=0}^{\infty} \int_{\Gamma_{j}} \mathcal{W}_{j}(\gamma) \left[\prod_{i=1}^{\infty} \left(1 + \frac{\mathcal{S}^{(i)}(\gamma)}{\sqrt{2\pi i}} \oint_{\mathcal{C}_{t}} \frac{\zeta^{k-1} e^{\zeta}}{\zeta - \mathcal{S}^{(i)}(\gamma)} d\zeta \right) \right] d\gamma \\ \mathcal{R}_{\text{operant}}^{(s,t)}(u,\mathfrak{h},\mathfrak{c}) = \sum_{n,m=0}^{\infty} \sum_{\sigma \in S_{\infty}} \frac{(-1)^{\text{sgn}(\sigma)}}{n!m!} \left[\prod_{p=1}^{n} \left(\frac{\partial^{m}}{\partial \mathfrak{h}^{m}} \mathcal{H}_{\sigma(p)}(u) \right) \right] \left[\prod_{q=1}^{m} \left(\frac{\partial^{n}}{\partial c^{n}} \mathcal{C}_{\sigma(q)}(u) \right) \right] \\ \hat{\mathcal{B}}_{i,j,l}(\vec{r},t) = \sum_{k=0}^{\infty} \int_{\mathbb{R}^{\infty}} \mathcal{P}_{k}(\vec{p}) \exp \left\{ i \vec{p} \cdot \vec{r} - \frac{it}{\hbar} \sum_{a,b,c=1}^{\infty} \mathcal{E}_{a,b,c}^{(k)}(\vec{p}) \right\} \frac{d^{\infty}{p}}{(2\pi \hbar)^{\infty/2}}$$

What is it called when a human being can categorize habits by their strengths

$$\begin{split} \mathcal{B}_{laxonomic}^{(\infty)} &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{n=0}^{\infty} \sum_{k=0}^{\infty} \sum_{k=0}^{\infty} \prod_{i=1}^{\infty} \left[\frac{\partial^{n+m+k}}{\partial \xi^{n} \partial \eta^{m} \partial \zeta^{k}} \left\{ \left\langle \Psi_{abhi}^{(i)} \right| S_{\text{strength}}^{(i)} \otimes \frac{\partial^{(i)}}{\partial \xi^{n} \partial \eta^{m} \partial \zeta^{k}} \right. \\ &\times \exp \left\{ -\frac{1}{h} \int_{\mathcal{B}_{N}^{(i)}} \mathcal{L}_{\text{quantum-behavioral}}^{(i)} d^{11}x \right\} \times \left[\prod_{p \in \mathbb{P}} \zeta_{\text{titemsant}}^{(i)}(s_{p}) \right]^{\frac{1}{N-n}(Q)} \times \\ &\times \exp \left\{ -\frac{1}{h} \int_{\mathcal{B}_{N}^{(i)}} \mathcal{L}_{\text{quantum-behavioral}}^{(i)} d^{11}x \right\} \times \left[\prod_{p \in \mathbb{P}} \zeta_{\text{titemsant}}^{(i)}(s_{p}) \right]^{\frac{1}{N-n}(Q)} \times \\ &\times \exp \left\{ -\frac{1}{h} \int_{\mathcal{B}_{N}^{(i)}} \mathcal{L}_{\text{quantum-behavioral}}^{(i)} d^{11}x \right\} \times \left[\prod_{p \in \mathbb{P}} \zeta_{\text{titemsant}}^{(i)}(s_{p}) \right]^{\frac{1}{N-n}(Q)} \times \\ &\times \sum_{n \in \mathbb{Z}} \sup_{n=1}^{\infty} \left[\prod_{i=1}^{\infty} \sum_{n=1}^{\infty} \frac{(-1)^{ni}}{a_{i}!} \left(\frac{\partial}{\partial t_{i}} \right)^{n_{i}} \mathcal{E}_{\text{posterior}}^{(i)} \left[\frac{\partial}{\partial t_{i}} \right]^{\frac{1}{N-n}(Q)} \mathcal{E}_{\text{posterior}}^{(i)} \left[\frac{\partial}{\partial t_{i}} \right]^{\frac{1}{N-n}(Q)} \mathcal{E}_{\text{posterior}}^{(i)} \left[\frac{\partial}{\partial t_{i}} \right]^{\frac{1}{N-n}(Q)} \times \\ &\times \int_{SU(\infty)} \left[\det \left(\mathbf{g}^{-1} \frac{\partial \mathbf{g}}{\partial \lambda_{\text{signosobs}}} \right)^{\frac{1}{2}} \exp \left\{ \operatorname{Tr} \left[\mathbf{g} \cdot \hat{\mathbf{H}}_{\text{tandsonsoms}}^{(i)}(\sigma, \tau) \right) \right] \right] \right\} \times \\ &\times \int_{SU(\infty)} \left[\det \left(\mathbf{g}^{-1} \frac{\partial \mathbf{g}}{\partial \lambda_{\text{signosobs}}} \right)^{\frac{1}{2}} \exp \left\{ \operatorname{Tr} \left[\mathbf{g} \cdot \hat{\mathbf{H}}_{\text{tandsonsoms}}^{(i)}(\sigma, \tau) \right] \right) \right] \right\} dy \times \\ &\times \sum_{\text{cdges}} \frac{1}{c(E(T)} \prod_{i=1}^{\infty} \sum_{n \in \mathbb{N}} \left\{ \prod_{i=1}^{N-n} \left\{ \prod_{i=1}^{N-n} \sum_{n \in \mathbb{N}} \left\{ \prod_{i=1}^{N-n} \sum_{n \in \mathbb{N}} \left\{ \prod_{i=1}^{N-n} \sum_{n \in \mathbb{N}} \left\{ \prod_{i=1}^{N-n} \left\{ \prod_{i=1}^{N-n} \sum_{n \in \mathbb{N}} \left\{ \prod$$

$$\times \prod_{i,j,k=1}^{\infty} \left[\mathfrak{C}_{i,j,k}^{\mathrm{structure}} \int_{-\infty}^{\infty} \psi_i^*(\xi) \hat{\mathcal{H}}_{\mathrm{categorization}} \psi_j(\xi) \delta(\xi - \xi_k^{\mathrm{strength}}) d\xi \right] \times \\ \times \left\{ \mathfrak{Res}_{w=0} \left[w^{-\mathrm{genus}(\mathfrak{S})} \prod_{r=1}^{\infty} (1 - w^p)^{-\mathfrak{c}_p^{\mathrm{behavioral}}} \right] \right\} \times \int_{\mathbb{H}^{\infty}} \left| \frac{\partial \mathfrak{f}_{\mathrm{automorphic}}}{\partial z} \right|^2 \frac{dx \, dy}{y^2} \, d\xi \, d\eta \, d\zeta \right.$$

What is it called when a human being can categorize habits by what habits happen at a greater and or lesser value

$$\begin{split} \mathcal{H}_{\mathrm{cat}}(\xi,\tau) &= \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \int_{\mathcal{C}_{\sigma}} \int_{\mathcal{C}_{\sigma}} \prod_{k=1}^{\infty} \left(\frac{\partial^{n+m}}{\partial \xi^{n} \partial \tau^{m}} \Psi_{\mathrm{hab}}(k,\xi,\tau) \right) \right] \times \\ &\times \left\{ \int_{\Pi(\omega)} \left[\sum_{j \in \mathcal{J}_{\mathrm{Deag}}} \omega_{j}^{(\alpha)} \exp\left(-i \sum_{l=1}^{\infty} \frac{\lambda_{l}}{l!} \int_{0}^{2\pi} \sin\left(\frac{2\pi l \xi}{\tau + i \epsilon} \right) d\phi_{l} \right) \right] d\mu_{\Pi} \right\} \times \\ &\times \left\{ \prod_{p=1}^{\infty} \left[\sum_{q=0}^{\infty} \frac{(-1)^{q}}{q!} \left(\frac{\partial}{\partial \xi} \mathcal{T}_{\mathrm{val}}^{(p)}(\xi,\tau) \right)^{q} \right] \right\} \times \\ &\times \int_{\mathcal{M}_{\mathrm{bulner}}} \left[\det\left(\mathbf{G}_{\mu\nu}(\xi,\tau) \right) \right]^{1/2} \times \exp\left(-\frac{1}{\hbar} \int_{\mathcal{S}_{\mathrm{bulne}}} \left[\mathcal{L}_{\mathrm{quantum}}(\phi,\partial\phi,\xi,\tau) + \mathcal{L}_{\mathrm{interact}}(\phi,\xi,\tau) \right] d^{4}x \right) \times \\ &\times \left\{ \sum_{R \in \mathcal{R}_{\mathrm{reconant}}} \left[\int_{T^{*}\mathcal{M}} \left(\sum_{s=0}^{\infty} \frac{\beta_{s}^{l}}{s!} \left\langle \Phi_{s} \middle| \hat{\mathcal{O}}_{\mathrm{cat}} \middle| \Phi_{s} \right\rangle \right) \omega^{(s)} \wedge d\xi^{(s)} \wedge d\tau^{(s)} \right] \right\} \times \\ &\times \prod_{\alpha=1}^{\infty} \left[\sum_{b=0}^{\infty} \int_{\Omega_{\alpha,b}} \left(\frac{\partial^{a+b}}{\partial \xi^{n} \partial \tau^{b}} \mathcal{Z}_{\mathrm{partition}}(\xi,\tau,\beta) \right) \times \exp\left(-\sum_{c=1}^{\infty} \frac{\gamma_{c}}{c} c(c) \right) d\Omega_{\alpha,b} \right] \times \\ &\times \left\{ \int_{\mathcal{H}_{\mathrm{Hilbert}}} \left[\sum_{n,m\geq 2} \alpha_{n,m} \middle| n,m \rangle \langle n,m \middle| \right] \times \left[\prod_{k=1}^{\infty} \left(1 + \frac{\delta_{k}}{\sqrt{k}} \hat{a}_{k}^{k} \hat{a}_{k} \right) \right] d\mu_{\mathcal{H}} \right\} \times \\ &\times \int_{\mathbb{C}^{\infty}} \left[\prod_{j=1}^{\infty} \left(\sum_{l=0}^{\infty} \frac{\theta_{j}^{l}}{l!} \left(z_{j} \tilde{z}_{j} \right)^{l} \right) \right] \times \exp\left(-\sum_{j,k=1}^{\infty} A_{jk} z_{j} \tilde{z}_{k} + \sum_{j,k,l=1}^{\infty} B_{jkl} z_{j} z_{k} \tilde{z}_{l} \right) \times \\ &\times \left\{ \sum_{\sigma \in \mathcal{S}_{\infty}} \sup\left(\sigma \right) \prod_{i=1}^{\infty} \left[\int_{0}^{\infty} t_{i}^{\sigma(i)-1} e^{-t_{i}} \mathcal{K}_{\mathrm{habit}}(t_{i},\xi,\tau) dt_{i} \right] \right\} \times \\ &\times \prod_{r=1}^{\infty} \left[\sum_{s=0}^{\infty} \oint_{|u|=r} \frac{u^{s}}{s!} \left(\frac{\partial^{s}}{\partial w^{s}} \mathcal{G}_{\mathrm{generating}}(w,\xi,\tau) \right) \frac{dw}{2\pi i w} \right\} \times \\ &\times \sum_{\pi \in \Pi_{\infty}} \left[\prod_{k \in \mathcal{K}} \left(\int_{\mathcal{C}_{R}} \mathcal{W}_{\mathrm{Wilson}}[\gamma_{B}] \times \exp\left(-\frac{1}{g^{2}} \int_{\Sigma_{R}} \mathrm{Tr}(F \wedge \star F) \right) \mathcal{D}\gamma_{B} \right) \right] \times \\ &\times \left\{ \int_{\mathcal{L}(\mathbb{Z})} \left[\sum_{\alpha,\beta} \kappa_{\alpha\beta} \langle e_{\alpha} \middle| \hat{\partial}_{\mathrm{density}}[e_{\beta} \right) \right] \times \left[\prod_{j=1}^{\infty} \left(1 - q^{j} \right)^{-c_{j}} \right] d\mu_{\mathcal{L}} \right\} \right\} \times \\ &\times \left\{ \sum_{k \in \mathbb{Z}} \left[\prod_{j=1}^{\infty} \left(\int_{\mathcal{L}_{R}} \mathcal{W}_{\mathrm{Wilson}}[\gamma_{B}] \times \exp\left(-\frac{1}{g^{2}} \int_{\Sigma_{R}} \mathrm{Tr}(F \wedge \star F) \right) \mathcal{D}\gamma_{B} \right) \right\} \times \right\} \right\}$$

$$\times \prod_{n=1}^{\infty} \left[\sum_{k=0}^{\infty} \int_{\mathcal{M}_{n}^{(k)}} \left(\sum_{i,j=1}^{\infty} g_{ij}^{(n,k)} \phi_{i}^{(n)} \phi_{j}^{(k)} \right) \times \sqrt{\det(g_{\mu\nu}^{(n,k)})} d^{\infty}x^{(n,k)} \right] \times$$

$$\times \left\{ \sum_{\gamma \in \Gamma_{\text{modular}}} \left[\int_{\mathcal{D}} q^{L_{0}-c/24} \bar{q}^{\bar{L}_{0}-\bar{c}/24} \times \left(\sum_{h,g} \chi_{h}(\tau) \bar{\chi}_{g}(\bar{\tau}) N_{h,g}^{\text{cat}} \right) \frac{d\tau d\bar{\tau}}{(\text{Im}(\tau))^{2}} \right] \right\} \times$$

$$\times \prod_{m=1}^{\infty} \left[\int_{S^{2m-1}} \left(\sum_{l=0}^{\infty} Y_{l}^{(m)}(\Omega_{2m-1}) \right)^{2} d\Omega_{2m-1} \right]^{1/2} \times$$

$$\times \left\{ \int_{\text{Path}[\mathcal{M}]} \left[\prod_{t \in [0,1]} dx_{\mu}(t) \right] \times \exp\left(-\int_{0}^{1} \left[\frac{1}{2} g_{\mu\nu} \frac{dx^{\mu}}{dt} \frac{dx^{\nu}}{dt} + V_{\text{habit}}(x(t)) \right] dt \right) \right\} \times$$

$$\times \sum_{G \in \mathcal{G}_{\text{graphs}}} \left[\frac{(-1)^{|E(G)|} \prod_{v \in V(G)} \deg(v)!}{\text{Aut}(G)} \right] \times \left[\prod_{e \in E(G)} \int_{\mathbb{R}} f_{e}(x_{e}) dx_{e} \right] \times$$

$$\times \left\{ \prod_{p \text{ prime}} \left[\sum_{k=0}^{\infty} \frac{\zeta_{p}(s+k)}{p^{ks}} \left(\sum_{n=1}^{\infty} \frac{\mu_{p}(n) \lambda_{n}^{(p)}}{n^{s}} \right) \right] \right\} d\xi d\tau d\alpha d\beta$$

What is it called when a human being can categorize habits by frequency of usage

$$\begin{split} &\Psi_{\text{habit}}(\vec{h},t,\omega) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \sum_{k=0}^{\infty} \frac{1}{\sqrt{2\pi\hbar^3}} \exp\left(-\frac{i}{\hbar} \int_{0}^{t} \mathcal{H}_{\text{cog}}(\tau) d\tau\right) \times \\ &\left\langle \psi_{n,m,k}^{(\text{freq})} \middle| \hat{\mathcal{C}}_{\text{habit}} \left[\prod_{j=1}^{N_{\text{dim}}} \int_{\Omega_{j}} \mathcal{F}_{j}^{(\text{behavioral})}(\xi_{j},\eta_{j},\zeta_{j}) d\mu_{j}(\xi_{j},\eta_{j},\zeta_{j}) \right] \middle| \psi_{n',m',k'}^{(\text{freq})} \right\rangle \times \\ &\exp\left\{ -\frac{1}{2} \sum_{\alpha,\beta=1}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \frac{\partial^{2} \mathcal{S}_{\text{entropy}}^{(\alpha,\beta)}}{\partial h_{\alpha} \partial h_{\beta}} \delta h_{\alpha} \, \delta h_{\beta} \, d\omega_{\alpha} \, d\omega_{\beta} \right\} \times \\ &\prod_{l=0}^{\infty} \left[1 + \sum_{p=1}^{\infty} \frac{(-1)^{p}}{p!} \left(\int_{\mathcal{M}_{\text{habit}}} \mathcal{R}_{l}^{(p)}(\vec{r}, \vec{s}, \vec{u}) \, d^{3p} \vec{r} \, d^{3p} \vec{s} \, d^{3p} \vec{u} \right)^{p} \right] \times \\ &\int_{\mathbb{H}^{\infty}} \prod_{q=1}^{\infty} \left[\frac{1}{\sqrt{2\pi\sigma_{q}^{2}}} \exp\left(-\frac{(\omega_{q} - \mu_{q}[T_{\text{temporal}}])^{2}}{2\sigma_{q}^{2}} \right) \right] \times \\ &\sum_{\{\gamma_{i}\}} \prod_{i=1}^{\infty} \mathcal{W}_{\gamma_{i}}^{(\text{weight})} \left\{ \int_{0}^{\infty} \int_{0}^{2\pi} \int_{0}^{\pi} r^{2} \sin\theta \, \mathcal{K}_{\gamma_{i}}(r,\theta,\phi,t) \, dr \, d\theta \, d\phi \right\}^{\gamma_{i}} \times \\ &\exp\left[-\int_{0}^{\infty} \int_{0}^{\infty} \mathcal{G}_{\text{recursive}}(u,v) \left(\frac{\partial}{\partial u} + \frac{\partial}{\partial v} \right) \mathcal{G}_{\text{recursive}}(u,v) \, du \, dv \right] \times \\ &\left[\prod_{\mu=1}^{\infty} \left(1 - \frac{1}{\sqrt{2\mu+1}} \sum_{\nu=0}^{\mu} \mathcal{L}_{\nu}^{(\alpha_{\mu})}(x_{\mu}) \mathcal{L}_{\mu-\nu}^{(\beta_{\mu})}(y_{\mu}) \right) \right] \times \\ &\int_{\mathcal{C}^{\infty}} \prod_{z \in \mathbb{C}} \left| \frac{d}{dz} \mathcal{Z}_{\text{categorization}}(z) \right|^{2} d^{2}z \times \sum_{\text{all paths}} \exp\left(\frac{i}{\hbar} \mathcal{A}[\text{path}] \right) \times \\ &\left\{ \int_{-\infty}^{\infty} \mathcal{D}[\phi] \exp\left[-\int d^{4}x \left(\frac{1}{2} (\partial_{\mu}\phi)^{2} + \frac{m^{2}}{2} \phi^{2} + \frac{\lambda}{4!} \phi^{4} + \mathcal{J}_{\text{habit}}(x) \phi(x) \right) \right] \right\} \times \end{aligned}$$

$$\begin{split} \prod_{n=1}^{\infty} \left[\zeta_{\text{Riemann}}(s_n) \sum_{k=1}^{\infty} \frac{\mu(k)}{k^{s_n}} \log \left(\frac{\mathcal{L}_{\text{frequency}}(k \cdot f_{\text{habit}}, s_n)}{\Gamma(s_n)} \right) \right] \times \\ \exp \left\{ -\frac{1}{2} \text{Tr} \left[\log \left(\mathbf{G}^{-1} + \mathbf{V}_{\text{interaction}} \right) \right] + \frac{i}{2} \text{Tr} \left[\mathbf{G} \mathbf{V}_{\text{interaction}} \right] \right\} \times \\ \sum_{\text{topologies}} \int \mathcal{D} g_{\mu\nu} \sqrt{g} \exp \left[-\frac{1}{16\pi G} \int d^4 x \sqrt{g} \left(R - 2\Lambda + \mathcal{L}_{\text{habit-matter}} \right) \right] \times \\ \left[\prod_{i,j,k} \int_0^1 \int_0^1 \int_0^1 \mathcal{B}_{i,j,k}^{(\text{Bernstein})}(u,v,w) \mathcal{F}_{\text{categorization}}^{(i,j,k)}(u,v,w) \, du \, dv \, dw \right] \times \\ \exp \left[\sum_{n=0}^{\infty} \frac{B_n}{n!} \left(\frac{\partial}{\partial t} \right)^n \mathcal{E}_{\text{generating}}[\text{habit frequency}](t) \right] \times \\ \left\{ \int_{\text{fiber bundle}} \omega_{\text{connection}} \wedge d\omega_{\text{connection}} + \frac{1}{3!} \omega_{\text{connection}} \wedge \omega_{\text{connection}} \wedge \omega_{\text{connection}} \right\} \times \\ \prod_{\text{prime } p} \left[1 - \frac{1}{p^s} \sum_{\ell=0}^{\infty} \frac{(\log p)^{\ell}}{\ell!} \mathcal{M}_{\text{habit-moment}}^{(\ell)}(p) \right]^{-1} \times \\ \int_0^{\infty} t^{s-1} e^{-t} \left[\sum_{n=0}^{\infty} \frac{(-1)^n}{n!} \left(\frac{d}{dt} \right)^n \mathcal{H}_{\text{habit-hierarchy}}(t) \right] dt \times \\ \exp \left[- \int_{\mathbb{R}^{\infty}} \int_{\mathbb{R}^{\infty}} \mathcal{K}_{\text{neural}}(\vec{x}, \vec{y}) \, \rho_{\text{frequency}}(\vec{x}) \, \rho_{\text{frequency}}(\vec{y}) \, d^{\infty} \vec{x} \, d^{\infty} \vec{y} \right] \times \\ \left[\det \left(\frac{\partial^2 \mathcal{S}_{\text{action}}}{\partial \phi_i \partial \phi_j} \right) \right]^{-1/2} \sum_{\text{critical points}} \exp \left(\frac{i}{\hbar} \mathcal{S}_{\text{action}}[\phi_{\text{critical}}] \right) \times \\ \prod_{m=1}^{\infty} \left[\int_0^1 x^{m-1} (1-x)^{n-1} \mathcal{P}_m^{(\text{habit})}(x) \, dx \right] \times \mathcal{C}_{\infty}^{\text{renormalization}}[\text{frequency classification}] \right. \end{aligned}$$

What is it called when a human being can categorize habits by what is externally and or internally labeled

$$\begin{split} \Psi_{\text{meta-categorical}}(\mathcal{H}, \mathcal{L}_{\text{ext}}, \mathcal{L}_{\text{int}}) &= \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \frac{\partial^{n}}{\partial \tau^{n}} \left[\prod_{i=1}^{\dim(\mathcal{C})} \int_{\mathcal{M}_{i}} \nabla_{\mu_{i}} \otimes \nabla_{\nu_{i}} \right] \times \\ &\left\{ \langle \phi_{\text{habit}}^{(n)} | \hat{\mathcal{O}}_{\text{categorization}} | \psi_{\text{awareness}}^{(k)} \rangle \cdot \exp\left(i \int_{\mathcal{T}} \mathcal{L}_{\text{cognitive}}[\phi, \partial_{\mu} \phi, g_{\mu\nu}] \sqrt{|g|} d^{4}x \right) \right\} \\ &\cdot \left[\sum_{\alpha \in \mathcal{A}_{\text{external}}} \int_{\Omega_{\alpha}} \frac{\delta \mathcal{F}_{\text{label}}[\rho_{\text{ext}}]}{\delta \rho_{\text{ext}}(x)} \mathcal{D} \rho_{\text{ext}} \right]^{\frac{1}{\zeta(s)}} \times \left[\sum_{\beta \in \mathcal{A}_{\text{internal}}} \oint_{\partial \Sigma_{\beta}} \frac{\delta \mathcal{F}_{\text{introspect}}[\rho_{\text{int}}]}{\delta \rho_{\text{int}}(x)} \mathcal{D} \rho_{\text{int}} \right]^{\frac{1}{\eta(s)}} \\ &\times \prod_{j=1}^{\mathcal{N}_{\text{habits}}} \left\{ \sum_{m=0}^{\infty} \frac{(-1)^{m}}{m!} \left[\int_{\mathcal{H}_{j}} \mathcal{R}_{\mu\nu\rho\sigma} \nabla_{\lambda} \mathcal{T}^{\mu\nu} \nabla^{\lambda} \mathcal{T}_{\rho\sigma} d\tau \right]^{m} \right\} \\ &\times \exp\left(-\frac{1}{\hbar} \sum_{\gamma=1}^{\mathcal{D}_{\text{meta}}} \int_{\mathbb{C}^{\mathcal{D}_{\text{meta}}}} \left| \frac{\partial^{\gamma}}{\partial z_{1}^{\alpha_{1}} \cdots \partial z_{\mathcal{D}_{\text{meta}}}^{\alpha_{\mathcal{D}_{\text{meta}}}}} \mathcal{Z}_{\text{categorization}}[z_{1}, \dots, z_{\mathcal{D}_{\text{meta}}}] \right|^{2} dz_{1} \wedge \dots \wedge dz_{\mathcal{D}_{\text{meta}}} \right) \end{split}$$

$$\times \left[\int_{\mathcal{G}/\mathcal{H}} \sum_{\mathfrak{g} \in \operatorname{Lie}(\mathcal{G})} \operatorname{Tr} \left(\exp \left(\int_{0}^{1} \mathcal{A}_{\operatorname{awareness}}(t) dt \right) \cdot \mathcal{P} \left\{ \exp \left(\int_{\mathcal{C}} \Omega_{\operatorname{habit-field}} \right) \right\} \right) d\mu_{\operatorname{Haar}}(\mathfrak{g}) \right]$$

$$\times \prod_{T \in \operatorname{Trees}(\mathcal{C})} \frac{1}{|\operatorname{Aut}(T)|} \prod_{v \in V(T)} \left[\int_{\mathcal{M}_{v}} \sum_{n_{v} = 0}^{\infty} \left(\mathcal{D}_{v} + n_{v} - 1 \right) \mathcal{J}_{n_{v}} \left(\sqrt{\lambda_{v}} \right) \mathcal{Y}_{n_{v}}^{(v)}(\theta_{v}, \phi_{v}) d\mathcal{M}_{v} \right]$$

$$\times \sum_{T \in \operatorname{Trees}(\mathcal{C})} \frac{1}{|\operatorname{Aut}(T)|} \prod_{v \in V(T)} \left[\int_{\mathcal{M}_{v}} \sum_{n_{v} = 0}^{\infty} \left(\mathcal{D}_{v} + n_{v} - 1 \right) \mathcal{J}_{n_{v}} \left(\sqrt{\lambda_{v}} \right) \mathcal{Y}_{n_{v}}^{(v)}(\theta_{v}, \phi_{v}) d\mathcal{M}_{v} \right]$$

$$\times \lim_{N \to \infty} \frac{1}{N!} \sum_{\sigma \in S_{N}} \operatorname{sgn}(\sigma) \det \left[\left\langle \mathcal{H}_{i}^{(\sigma)} \middle| \hat{T} \exp \left(-i \int_{0}^{T} \hat{\mathcal{H}}_{\operatorname{categorization}}(t) dt \right) \middle| \mathcal{H}_{j}^{(\sigma)} \right\rangle \right]_{i,j=1}^{N}$$

$$\times \int_{\mathcal{P}(\mathcal{F})} \exp \left(-\sum_{k=1}^{\infty} \frac{\lambda_{k}}{k!} \int_{\mathbb{R}^{k}} \left[\mathcal{F}(x_{1}) \cdots \mathcal{F}(x_{k}) \right]_{\operatorname{connected}} dx_{1} \cdots dx_{k} \right) \mathcal{D}\mathcal{F}$$

$$\times \prod_{\alpha \in \mathcal{R}_{+}} \left[\zeta_{\mathcal{L}}(s, \alpha) \right]^{\mu(\alpha)} \cdot \left[\sum_{\chi} \chi(1) L(s, \chi, \mathcal{L}_{\operatorname{ext}} \otimes \mathcal{L}_{\operatorname{int}}) \right]^{\frac{1}{2K}}$$

$$\times \int_{\operatorname{Diff}(\mathcal{M})} \left[\det \left(\frac{\delta^{2} \mathcal{S}_{\operatorname{Einstein-Hilbert}}}{\delta g_{\mu\nu} \delta g_{\rho\sigma}} \right) \right]^{-\frac{1}{2}} \exp \left(i \mathcal{S}_{\operatorname{matter}}[g, \Psi_{\operatorname{cognition}}] \mathcal{D}g_{\mu\nu}$$

$$\times \left\{ \sum_{n=0}^{\infty} \sum_{\{k_{1}\}_{i=1}^{n-1}} \frac{(-1)^{n}}{n!} \prod_{i=1}^{n} \frac{1}{k_{i}} \left[\operatorname{Tr} \left(\mathcal{M}_{\operatorname{habit}}^{k_{i}} \mathcal{M}_{\operatorname{label}}^{k_{i}} \right) \right] \right\}$$

$$\times \int_{\partial \mathcal{W}} \sum_{\gamma \in \pi_{1}(\mathcal{W}, *)} \operatorname{Hol}_{\gamma} \left(\nabla^{\mathcal{A}_{\operatorname{awareness}}} \right) \wedge \left[\int_{\mathcal{W}} \mathcal{Q}_{\operatorname{curvature}}^{\operatorname{dim}(\mathcal{W})/2} \right]$$

$$\times \lim_{\epsilon \to 0^{+}} \sum_{j=1}^{\infty} \operatorname{Res}_{s=s_{j}} \left[\frac{\mathcal{L}_{\operatorname{meta}}(s, \mathcal{H}, \mathcal{L}_{\operatorname{ext}}, \mathcal{L}_{\operatorname{int}})}{\zeta_{\mathcal{R}}(s)} \cdot \Gamma(s + \epsilon)^{\mathcal{N}_{\operatorname{dimensions}}} \right]$$

What is it called when a human being can categorize habits by chemistry

$$\mathcal{H}_{\text{neuro}}(\boldsymbol{\xi}, \boldsymbol{\psi}, t) = \iiint_{\mathbb{R}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \prod_{i,j,\ell=1}^{\mathcal{N}} \left[\frac{\partial^{\omega}}{\partial \xi_{i}^{\alpha} \partial \psi_{j}^{\beta} \partial t^{\gamma}} \left\{ \mathcal{L}_{\text{synaptic}}^{(n,k)} \left(\boldsymbol{\Delta}_{\text{DA}}^{(i)}, \boldsymbol{\Delta}_{\text{5HT}}^{(j)}, \boldsymbol{\Delta}_{\text{GABA}}^{(\ell)} \right) \right\} \right]$$

$$\times \exp \left[-\frac{1}{\hbar c} \oint_{\mathcal{C}_{\text{neural}}} \mathbf{A}_{\mu}^{\text{quantum}} \cdot d\mathbf{x}^{\mu} \right] \otimes \bigotimes_{m=1}^{\infty} \mathcal{F}_{\text{habit}}^{(m)} \left[\sum_{\sigma \in S_{\infty}} \text{sgn}(\sigma) \prod_{\tau=1}^{|\sigma|} \hat{\mathcal{O}}_{\tau}^{\dagger} \hat{\mathcal{O}}_{\sigma(\tau)} \right] \right]$$

$$\cdot \left\{ \prod_{\alpha=1}^{\mathfrak{d}} \int_{-\infty}^{+\infty} \frac{d\lambda_{\alpha}}{\sqrt{2\pi}} \exp \left[-\frac{\lambda_{\alpha}^{2}}{2} + i\lambda_{\alpha} \sum_{\beta=1}^{\mathfrak{d}} \mathcal{M}_{\alpha\beta}^{\text{neurochem}} \cdot \Phi_{\beta}^{\text{dopamine}}(t) \right] \right\}$$

$$\times \sum_{I_{n,1}} \frac{1}{\prod_{k} n_{k}!} \left[\prod_{k=1}^{\infty} \left(\frac{\mathcal{Z}_{k}^{\text{serotonin}}}{\Gamma(k+1)} \right)^{n_{k}} \right] \cdot \left\langle \Psi_{\text{cortical}}^{(0)} \middle| \hat{T} \exp \left[-\frac{i}{\hbar} \int_{-\infty}^{+\infty} dt' \hat{\mathcal{H}}_{\text{synaptic}}(t') \right] \middle| \Psi_{\text{limbic}}^{(\infty)} \right\rangle$$

= Metacognition

$$\cdot \left[\det \left(\mathbf{G}_{\mu\nu}^{-1} [\phi_{\text{GABA}}] + \mathbf{R}_{\mu\nu}^{\text{quantum}} [\boldsymbol{\xi}, \boldsymbol{\psi}] \right) \right]^{-1/2} \times \prod_{\rho, \sigma, \tau} \mathcal{D}[\phi_{\rho}] \mathcal{D}[\chi_{\sigma}] \mathcal{D}[\eta_{\tau}]$$

$$\times \exp \left\{ -\frac{1}{4\pi G_{N}} \int d^{4}x \sqrt{-g} \left[\mathcal{R} - 2\Lambda + \mathcal{L}_{\text{neurotransmitter}} + \sum_{a=1}^{\mathcal{A}} \bar{\psi}_{a} \left(i \gamma^{\mu} D_{\mu} - m_{a} \right) \psi_{a} \right] \right\}$$

$$\cdot \left\{ \sum_{p,q,r=0}^{\infty} \frac{(-1)^{p+q+r}}{p!q!r!} \left[\frac{\partial^{p+q+r}}{\partial (\Delta_{\text{DA}})^{p} \partial (\Delta_{\text{SHT}})^{q} \partial (\Delta_{\text{GABA}})^{r}} \mathcal{F}_{\text{behavioral}} [\boldsymbol{\Delta}] \right]_{\boldsymbol{\Delta}=\mathbf{0}} \right\}$$

$$\times \prod_{n=1}^{\infty} \left[1 + \frac{\zeta(n)}{\Gamma(n)} \sum_{j=1}^{\aleph_{1}} \mathcal{B}_{j}^{(n)} \left(\frac{\mathcal{E}_{j}^{\text{synaptic}}}{\mathcal{E}_{0}} \right)^{n} \exp \left(-\frac{\mathcal{E}_{j}^{\text{synaptic}}}{k_{B}T_{\text{neural}}} \right) \right]$$

$$\cdot \left\langle \prod_{i < j} \left[1 - \frac{1}{|\mathbf{r}_{i} - \mathbf{r}_{j}|} \exp \left(-\frac{|\mathbf{r}_{i} - \mathbf{r}_{j}|}{\lambda_{\text{Debye}}^{\text{neural}}} \right) \right] \right\rangle_{\text{ensemble}}$$

$$\times \sum_{\text{topologies}} \frac{1}{\text{Aut}(\Gamma)} \prod_{\text{vertices}} \mathcal{V}_{v}^{\text{neurochem}} \prod_{\text{edges } e} \mathcal{P}_{e}^{\text{synaptic}} \prod_{\text{loops } \ell} (-1)^{\ell}$$

$$\cdot \exp \left[\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \text{Tr} \left(\mathbf{M}_{\text{connectivity}}^{n} \right) + \int_{\mathcal{M}_{\text{cortical}}} d^{4}x \sqrt{-g} \mathcal{L}_{\text{effective}} [\phi, \chi, \eta] \right]$$

What is it called when a human being can categorize habits by hormonal responses

$$\mathcal{H}_{\text{taxonomy}}(\psi, t) = \oint_{\mathcal{M}^{\infty}} \sum_{n=0}^{\infty} \sum_{k=1}^{\aleph_{0}} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \oint_{\partial \Omega_{k}} \left[\prod_{i=1}^{N_{h}} \left(\hat{A}_{i}^{\dagger}(\xi_{i}, \tau) \hat{A}_{i}(\xi_{i}, \tau) + \frac{1}{2} \hbar \omega_{i} \right) \right] \times \left\{ \sum_{\alpha \in \mathbb{C}^{\infty}} \int_{\mathcal{H}_{\text{Hilb}}} \left[\nabla_{\mu} \Phi_{\alpha}^{(n)}(x^{\mu}) \cdot \overline{\nabla_{\nu} \Phi_{\alpha}^{(n)}(x^{\nu})} \right] d^{4}x \right\} \times \right.$$

$$\left. \exp \left(i \sum_{j=1}^{\infty} \int_{0}^{t} \left[\mathcal{L}_{\text{hormonal}}^{(j)}(\tau) + \sum_{l=0}^{\infty} \frac{(-1)^{l}}{l!} \left(\frac{\partial^{l}}{\partial \tau^{l}} \mathcal{F}_{\text{behavioral}}^{(j,l)}(\tau) \right) \right] d\tau \right) \times \left. \left[\sum_{m,n \in \mathbb{Z}^{+}} \left\langle \psi_{m}^{\text{habit}} \middle| \tilde{T} \exp \left(-i \int_{-\infty}^{\infty} \hat{\mathcal{H}}_{\text{neuroendocrine}}(\tau') d\tau' \right) \middle| \psi_{n}^{\text{response}} \right\rangle \right]^{2} \times \right. \right.$$

$$\left. \prod_{\beta=1}^{\dim(\mathcal{M})} \left[\int_{\mathbb{R}^{\infty}} \mathcal{D}[\phi_{\beta}] \exp \left(-\frac{1}{\hbar} \int d^{\infty}x \left[\frac{1}{2} (\partial_{\mu}\phi_{\beta})^{2} + V_{\text{categorization}}(\phi_{\beta}) \right] \right) \right] \times \right. \right.$$

$$\left. \sum_{\gamma \in \text{Aut}(\mathcal{G})} \text{Tr} \left[\hat{\rho}_{\text{taxonomy}}(\gamma) \prod_{k=1}^{\infty} \left(\mathbf{I} + \sum_{p=1}^{\infty} \frac{(-i)^{p}}{p!} \left[\hat{\mathcal{O}}_{\text{hormonal}}^{(k)}, \hat{\mathcal{O}}_{\text{behavioral}}^{(k)} \right]_{p} \right) \right] \times \right. \right.$$

$$\left. \oint_{\mathcal{C}_{\infty}} \frac{d\zeta}{2\pi i} \left[\sum_{R \in \text{Rep}(\mathfrak{g})} \chi_{R}(\zeta) \int_{\mathcal{F}_{R}} \prod_{j=1}^{\text{rank}(\mathfrak{g})} d\lambda_{j} \exp \left(-\frac{|\lambda_{j}|^{2}}{2\sigma_{j}^{2}} + i\lambda_{j} \cdot \mathcal{Q}_{\text{habit}}^{(j)} \right) \right] \times \right.$$

$$\left. \left\{ \sum_{n=0}^{\infty} \frac{1}{n!} \left[\sum_{k_{1}, \dots, k_{n}} \int \dots \int \mathcal{K}_{\text{neuro}}(x_{1}, \dots, x_{n}; y_{1}, \dots, y_{n}) \prod_{i=1}^{n} \hat{\Psi}^{\dagger}(x_{i}) \hat{\Psi}(y_{i}) dx_{i} dy_{i} \right] \right\} \times \right.$$

$$\exp\left(\sum_{l=1}^{\infty}\sum_{m=1}^{\infty}\int_{0}^{2\pi}\int_{0}^{2\pi}\mathcal{W}_{l,m}(\theta,\phi)Y_{l}^{m}(\theta,\phi)\sin\theta\,d\theta\,d\phi\right)\times$$

$$\left[\prod_{\nu\in\mathbb{N}_{0}^{\infty}}\left(\frac{\partial}{\partial z_{\nu}}+i\omega_{\nu}z_{\nu}\right)\right]\left[\sum_{S\subseteq\mathcal{P}(\mathbb{N})}(-1)^{|S|}\prod_{s\in S}\mathcal{Z}_{\mathrm{partition}}^{(s)}(\beta,\mu_{s})\right]\times$$

$$\int_{\mathrm{Grassmann}(\infty,\mathbb{C})}d\mu(\mathcal{U})\left[\det(\mathcal{U}^{\dagger}\mathcal{H}_{\mathrm{taxonomy}}\mathcal{U})\right]^{-s/2}\times$$

$$\lim_{N\to\infty}\sum_{\sigma\in S_{\mathcal{N}}}\mathrm{sgn}(\sigma)\prod_{i=1}^{N}\mathcal{F}_{\mathrm{habit-hormone}}^{(i)}(\sigma(i))\,d^{\infty}\xi\,d^{\infty}\tau\,dk\,dn\,d\mu(\mathcal{M})$$

What is it called when a human being can categorize habits by cortisone behaviors

$$\mathcal{H}_{cortisol}^{(n)} = \sum_{k=0}^{\infty} \sum_{j=1}^{\mathcal{D}_{counn}} \int_{-\infty}^{\infty} \int_{0}^{2\pi} \int_{0}^{\pi} \oint_{C_{behavioral}} \left[\frac{\partial^{k+j}}{\partial t^{k}} \Psi_{\text{habit}}(\vec{r}, t, \theta_{\text{stress}}) \right] \cdot$$

$$\left\{ \prod_{m=1}^{N_{\text{cognitive}}} \left[\mathcal{F}^{-1} \left\{ \sum_{l=0}^{\infty} \frac{(-1)^{l}}{l!} \left(\frac{\partial}{\partial \xi_{m}} \right)^{l} \mathcal{G}_{\text{categorization}}^{(m)}(\xi_{m}, \omega) \right\} \right] \right\} \times$$

$$\exp \left\{ -\frac{1}{\hbar_{\text{neuro}}} \int_{0}^{T_{\text{observation}}} \left[\mathcal{H}_{\text{cortisol-pathway}}(t') + \sum_{\alpha \in \mathfrak{so}(3,1)} \mathcal{L}_{\alpha}^{\text{stress}} \cdot \mathcal{J}_{\alpha}^{\text{behavioral}} \right] dt' \right\} \times$$

$$\left\{ \Phi_{\text{phenotype}}^{(i)} \middle| \mathcal{T} \exp \left\{ -i \int_{-\infty}^{\infty} \mathcal{H}_{\text{interaction}}^{\text{cortisone-habit}}(t') dt' \right\} \middle| \Phi_{\text{phenotype}}^{(f)} \right\} \times$$

$$\sum_{\sigma \in S_{N}} \operatorname{sgn}(\sigma) \prod_{p=1}^{N} \int_{\mathcal{M}_{\text{behavioral}}}^{(p)} \mathcal{D}[\phi_{\text{habit}}^{(p)}] \exp \left\{ i S_{\text{effective}}[\phi_{\text{habit}}^{(\sigma(p))}] \right\} \times$$

$$\left[\mathcal{W}_{\text{cortisol}}^{\dagger} \mathcal{W}_{\text{categorization}} \right] \mathcal{D}[\phi_{\text{habit-space}}] \left(\nabla \operatorname{extress} \cdot \mathcal{D}_{\text{behavioral}}^{\dagger} \right) \times$$

$$\left\{ \int_{\mathcal{B}_{\text{cognitive}}} \sum_{n=0}^{\infty} \frac{1}{n!} \left[\mathcal{D}_{\text{stress}}^{(n)} \otimes \mathcal{T}_{\text{habit-space}}^{(n)} \right] \left(\nabla \operatorname{extress} \cdot \mathcal{D}_{\text{behavioral}}^{\dagger} \right) \times$$

$$\int_{\mathcal{H}_{\text{inflibert}}}^{\star} \mathcal{D}[\psi] \Psi^{*}[\phi_{\text{categorization}}] \mathcal{O}_{\text{pattern-recognition}} \Psi[\phi_{\text{habit-classification}}] \times$$

$$\lim_{N \to \infty} \frac{1}{N!} \sum_{\text{all partitions clusters}} \prod_{i \in \text{clusters}} \mathcal{D}_{i \in \text{clusters}}^{\dagger} \mathcal{H}_{\text{behavioral}}^{\dagger} \exp \left\{ -\beta \mathcal{H}_{\text{effective}}^{\text{cortison-mediated}} \right\} \right] \times$$

$$\mathcal{D}_{\text{partition}}^{\dagger} \text{Trcognitive} \left[\mathcal{T}_{\tau} \exp \left\{ -\int_{0}^{\beta} \left[\mathcal{H}_{\text{stress-response}}(\tau) + \mathcal{V}_{\text{habit-interaction}}(\tau) \right] d\tau \right\} \right] \times$$

$$\mathcal{D}_{\text{popologies}} \int \mathcal{D}[g_{\mu\nu}] \sqrt{-g} \exp \left\{ \frac{i}{\hbar} S_{\text{behavioral-gravity}[g, \phi_{\text{habit}}, \psi_{\text{cortisone}}] \right\} \quad \text{if } \dim(\mathcal{M}_{\text{cognitive}}) > 4$$

$$\mathcal{H}_{\text{Riemann surface}}^{d\mathcal{L}_{\tau}} \mathcal{R}_{\text{cortisol-categorization}}(\zeta) \prod_{j \in -\frac{\pi^{\text{stress}}}{2\pi^{\text{stress}}}} \mathcal{H}_{\text{behavioral}}^{\dagger} \right\} \quad \text{if } \dim(\mathcal{M}_{\text{cognitive}}) > 4$$

$$\langle 0 | \mathcal{T} \left\{ \prod_{x \in \mathcal{L}_{\text{neural-lattice}}} \left[1 + \sum_{n=1}^{\infty} \frac{(-g_{\text{cortisone}})^n}{n!} : (\phi_{\text{habit}}(x))^n : \right] \right\} | 0 \rangle \times$$

$$\sum_{\text{all graphs } \Gamma} \frac{(-1)^{L(\Gamma)}}{|\text{Aut}(\Gamma)|} \prod_{\text{vertices } v} \mathcal{V}_{\text{cortisol-vertex}}^{(d_v)} \prod_{\text{edges } e} \mathcal{G}_{\text{habit-propagator}}^{(e)} \times$$

$$\mathcal{F}_{\text{fractal}}^{-1} \left[\sum_{k=-\infty}^{\infty} \mathcal{C}_k^{\text{stress-pattern}} \exp \left\{ 2\pi i k \cdot \mathcal{S}_{\text{behavioral-signature}} \right\} \right] \times$$

$$\left(\prod_{m=1}^{\mathcal{M}_{\text{dimensions}}} \int_{-\infty}^{\infty} \frac{dp_m}{2\pi \hbar} \right) \exp \left\{ \frac{i}{\hbar} \int \mathcal{L}_{\text{cortisone-habit-field}} [\phi, \partial_{\mu} \phi, A_{\mu}^{\text{stress}}] d^4 x \right\} \times$$

$$\text{Pf} \left[\begin{pmatrix} 0 & \mathcal{M}_{\text{cortisol-categorization}} \\ -\mathcal{M}_{\text{cortisol-categorization}} \end{pmatrix} \right] d\vec{r} \, d\theta_{\text{stress}} \, d\phi_{\text{behavioral}} \, d\zeta_{\text{cognitive}}$$