

PEACE OF MIND AS A SERVICE



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MÜNCHEN

R

T

F

M

14 Jahre

BUSINESSKASPER



2005



2019



2005



2019

COMPUTER VIREN

KEIN iPHONE / SMARTPHONE

INTERNET OF THINGS

INTERNET OF COMPUTERS

**INTERNET
OF
COMPUTERS
AND ONLY**

**INTERNET
OF
COMPUTERS
AND ONLY
COMPUTERS**



MEHR TECHNOLOGIE

**MEHR TECHNOLOGIE
MEHR KOMFORT**

MEHR TECHNOLOGIE
MEHR KOMFORT
MEHR PROBLEME













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Land Rover InControl® Package Terms and Conditions

Do not use or permit any other person to use, the package in any unlawful manner, for any unlawful purpose, or in any manner inconsistent with these Terms, or act fraudulently or maliciously, for example, by hacking into or inserting malicious code, including viruses, or harmful data, into the Land Rover InControl website or any operating system;



“The Fate of The Furious, 2017”

10/10/2017 01:28:57
CH 01

02:50



Обратите внимание на переднее левое колесо.

Любая попытка освободить колесо приведёт к механическому повреждению колёсного диска и(или) элементов подвески.

Прошу прощения за то, что отнимаю Ваше время, дело в том, что я являюсь владельцем небольшой строительной организацией. Мои заказчики меня «кинули» в результате чего мне необходимо ликвидировать задолженность перед рабочими и за аренду техники. Мне пришлось выбрать этот мерзкий способ решения моих финансовых проблем т.к. другого варианта у меня нет.

Предлагаю Вам купить ключ за 15.000р. Деньги прошу перевести на Qiwi кошелёк +7 911 758 04 65 и сообщить о перечислении на номер Viber +7 911 758 04 65 В свою очередь я обязуюсь сообщить Вам местонахождения ключа. Если у Вас есть возможность перевести сумму превышающую вышеизложенную, то я буду весьма признателен Вам за это.

Не в коем случае не фотографируйте и не выкладывайте в интернет это письмо, сама идея уникальна и ей могут воспользоваться мошенники.

Спасибо за понимание

F-Secure 











Account-Pflicht für jeden Bundesbürger!

- Positives Rating für gutes, deutsches Verhalten
- Positives Rating für gute, deutsche Freunde
- Negatives Rating für undeutsches Verhalten
- Negatives Rating für das Anschauen von Pornografie
- Negatives Rating für Strafzettel
- Negatives Rating für das Vergessen den Müll zu trennen
- Negatives Rating wenn die Eltern nicht regelmäßig besucht werden
- ...

Strafen für schlechtes Rating

- Langsames Internet
- Flug / Zug-Verbot
- Verbot eine Immobilie zu kaufen
- Verbot ein Auto zu kaufen
- Verbot in Urlaub zu fahren
- Kinder dürfen nicht auf Privatschulen gehen
- ...



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- ...



SOCIAL CREDIT SYSTEM

Technologie

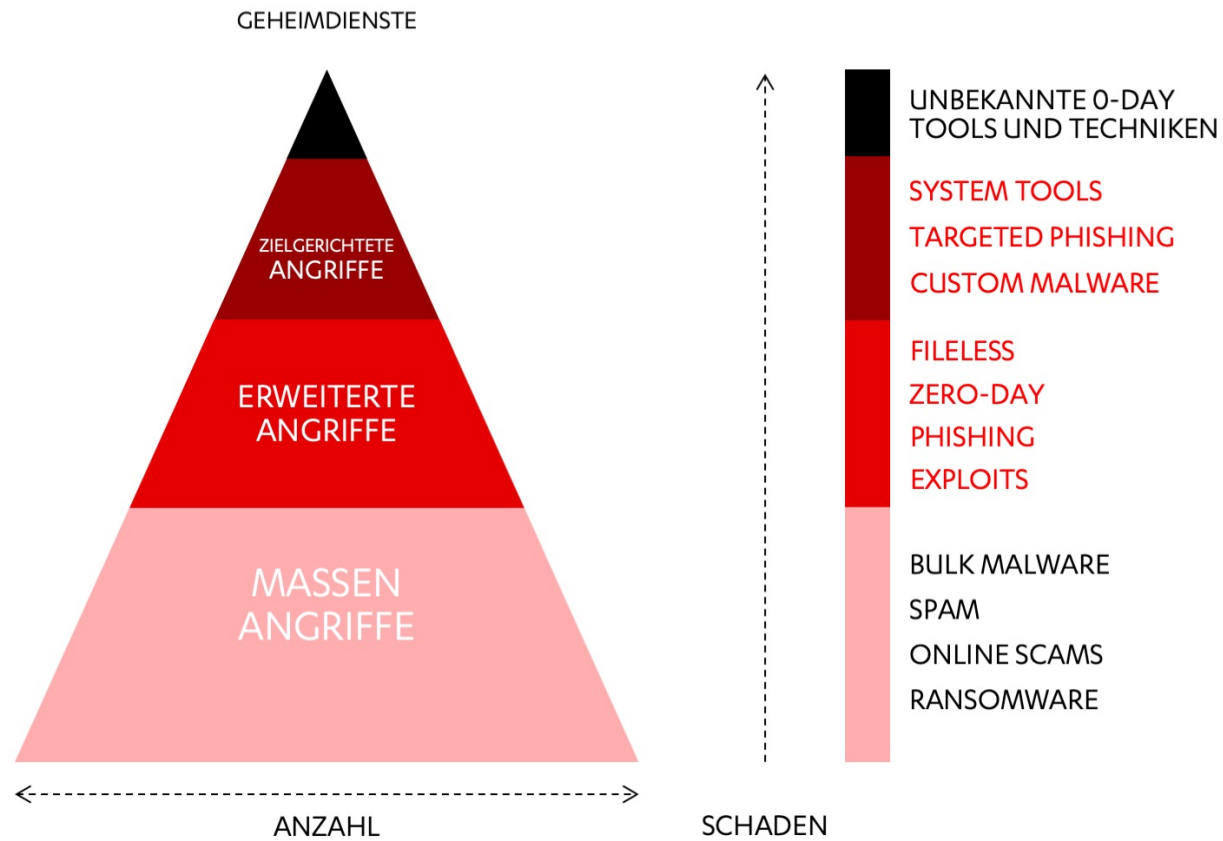


**Social
Media**

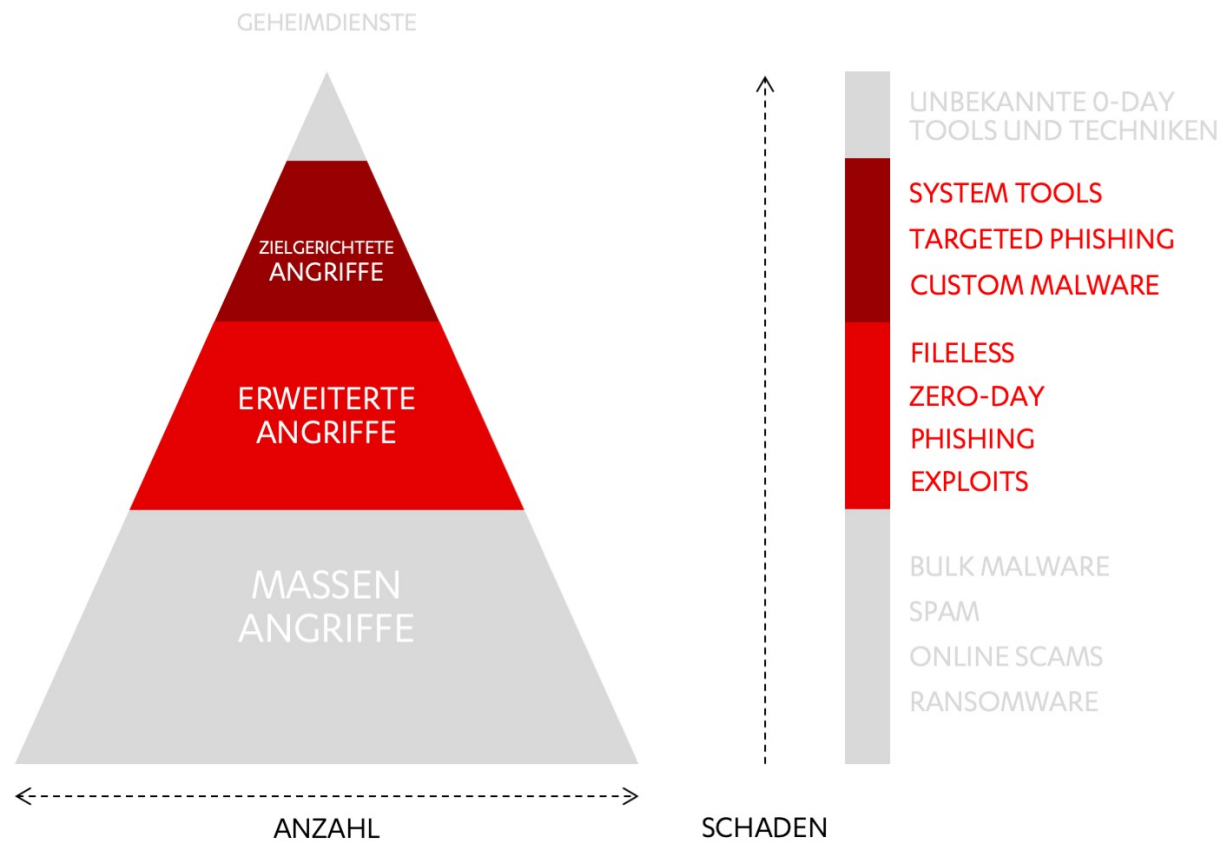


**RISIKO / PROBLEM
KENNEN →
BESSERE
ENTSCHEIDUNGEN
TREFFEN**

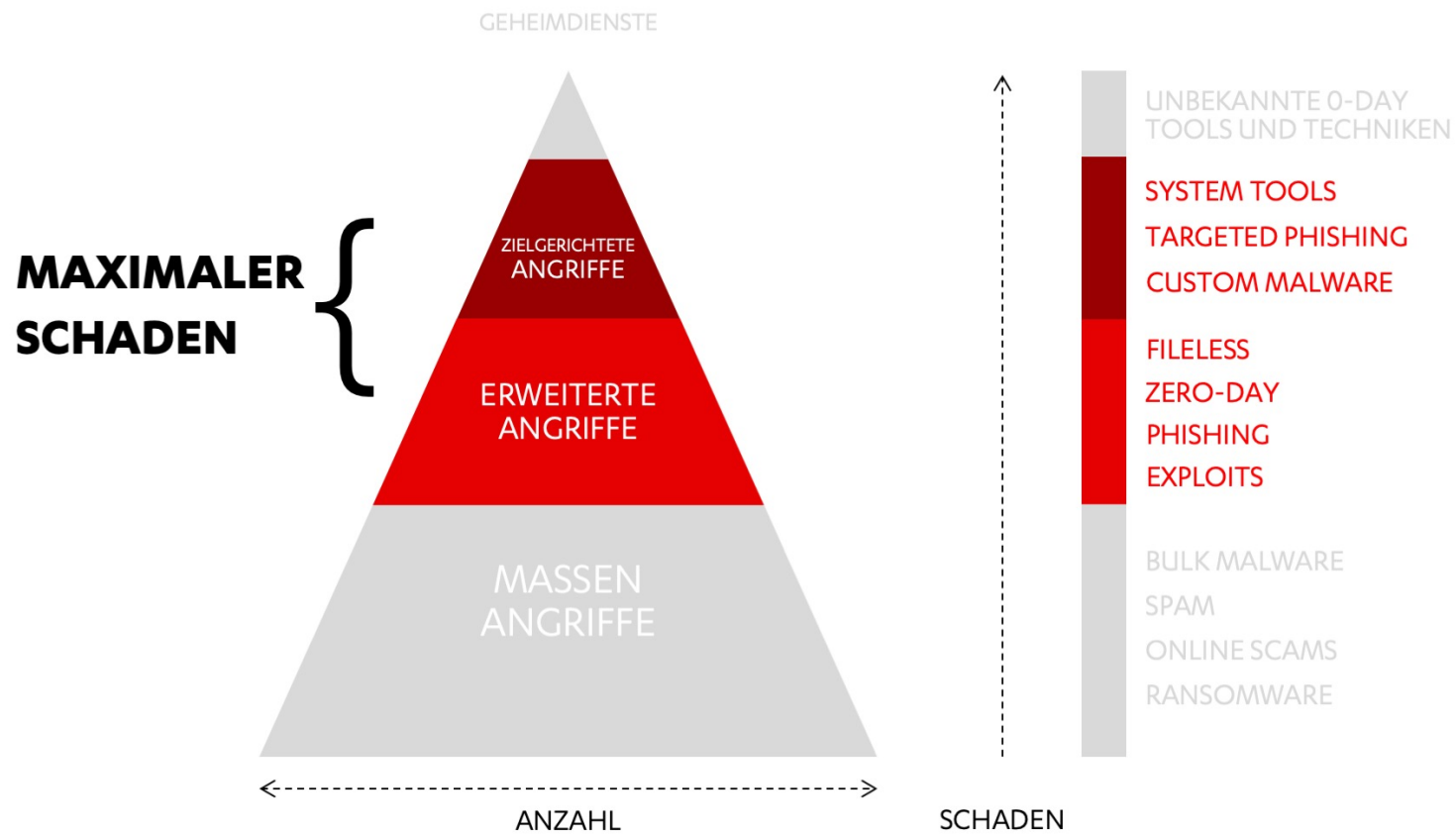
DIE GEFAHREN



DIE GEFAHREN



DIE GEFAHREN



PROBLEM FÜR FIRMEN?



• **Advanced/
fileless attacks**

• **Mangel an
Übersicht**

• **Fehlendes
Know-How**



More information can be found in the report "Attack Landscape H1 2017", F-Secure

Gartner Report Says Shadow IT Will Result in 1/3 of Security Breaches

FROST & SULLIVAN

Examine the numbers and today's much publicised cyber security-skills gap starts to look more like a chasm. Frost & Sullivan predicts a **shortfall of 1.5 million** IT security professionals by 2020, while **one in four organisations** already face a "problematic shortage" of cyber talent.

**IM DURCHSCHNITT DAUERT
ES 100+ TAGE UM AUF EINEN
DATA BREACH ZU
REAGIEREN**

PARADIGMENWECHSEL





Pre-Compromise

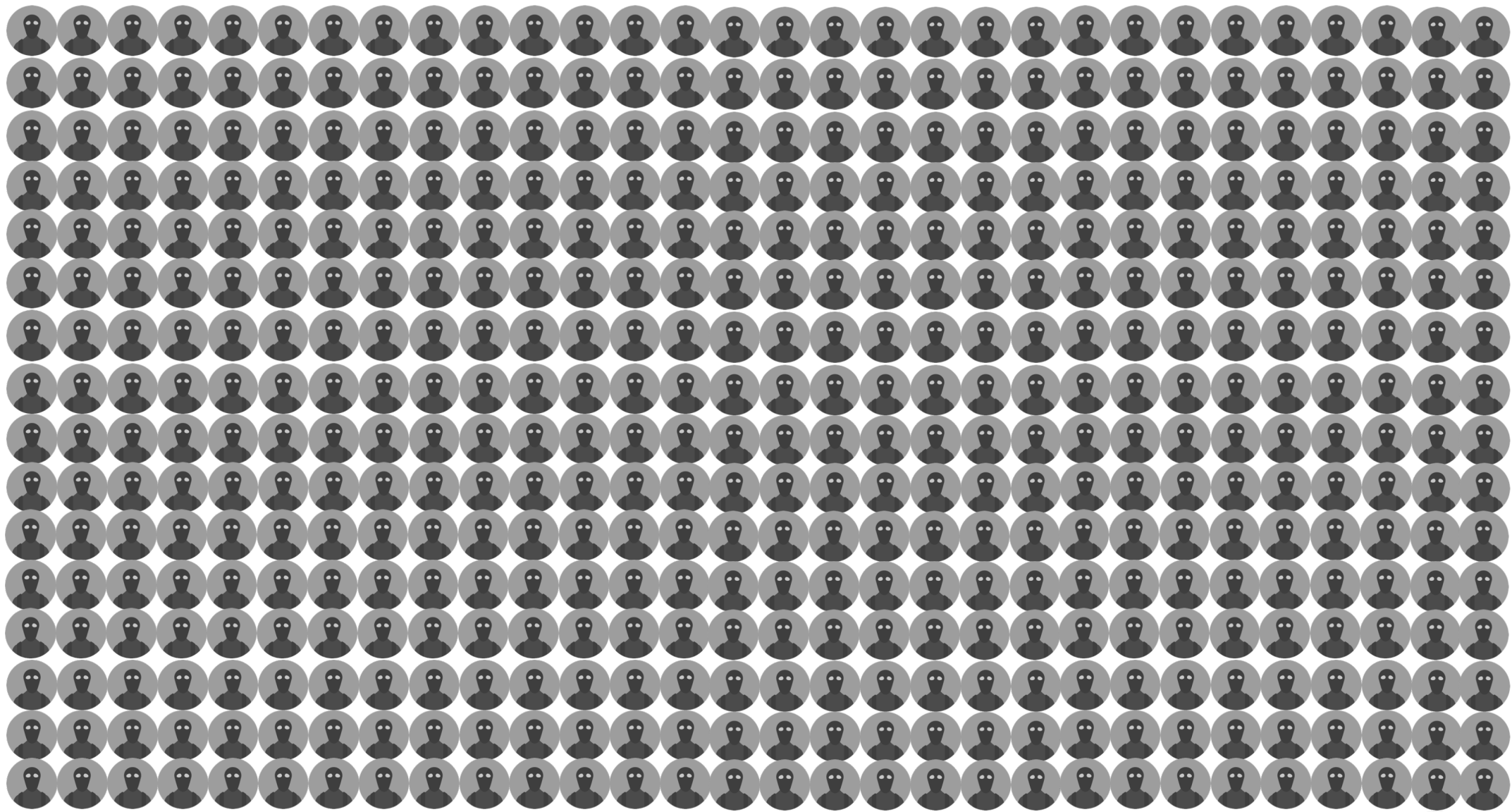
Post-Compromise

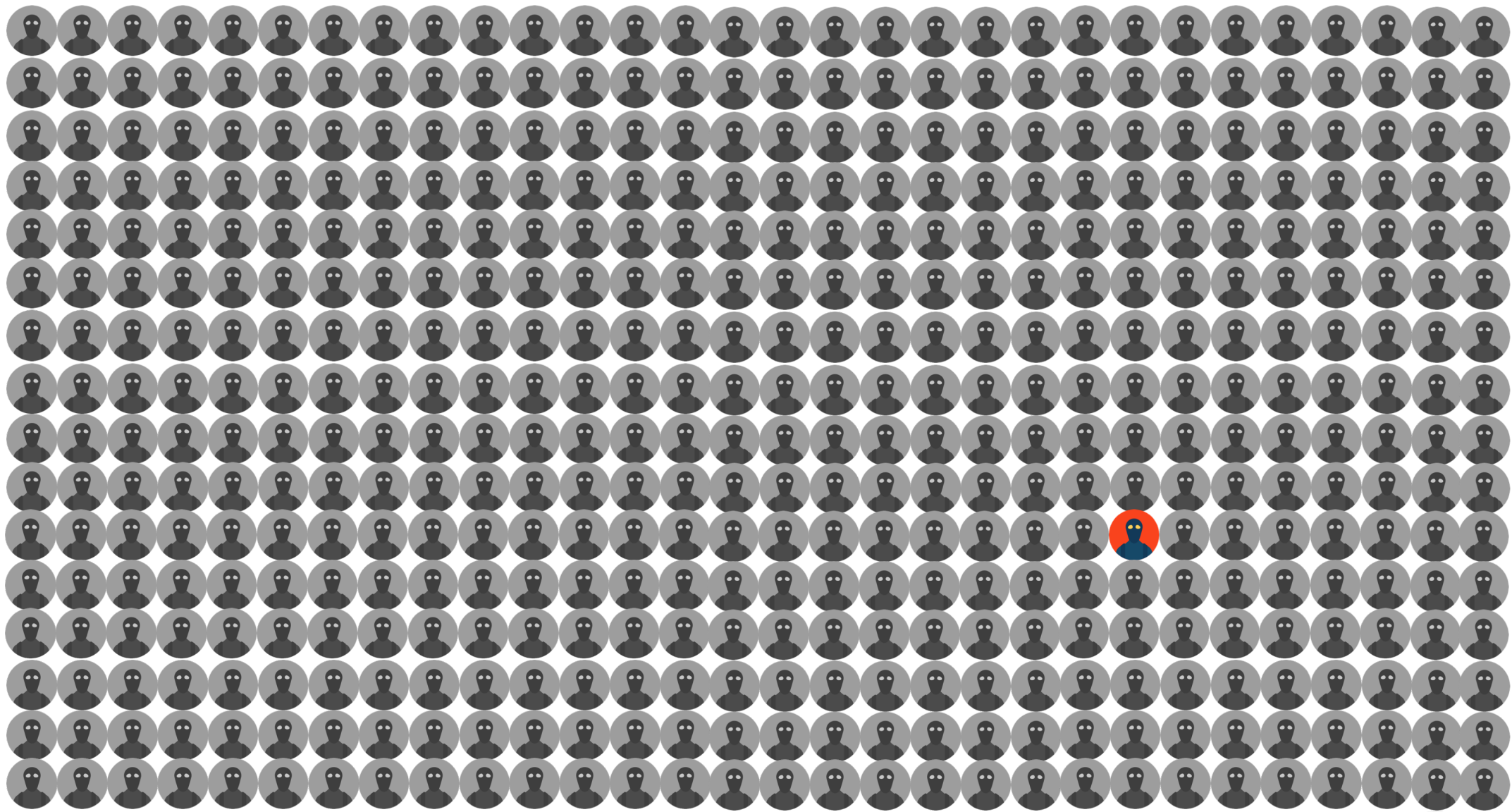
F-SECURE
RAPID DETECTION
SERVICE





ecure.



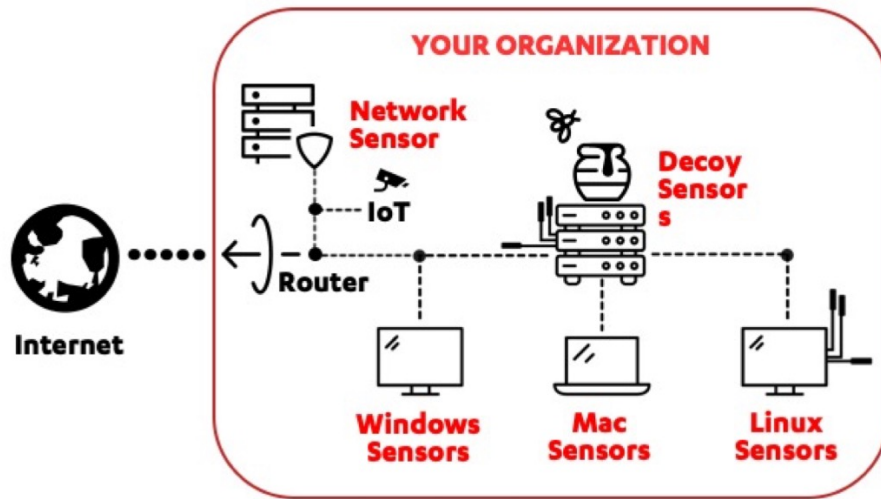


100+ TAGE?

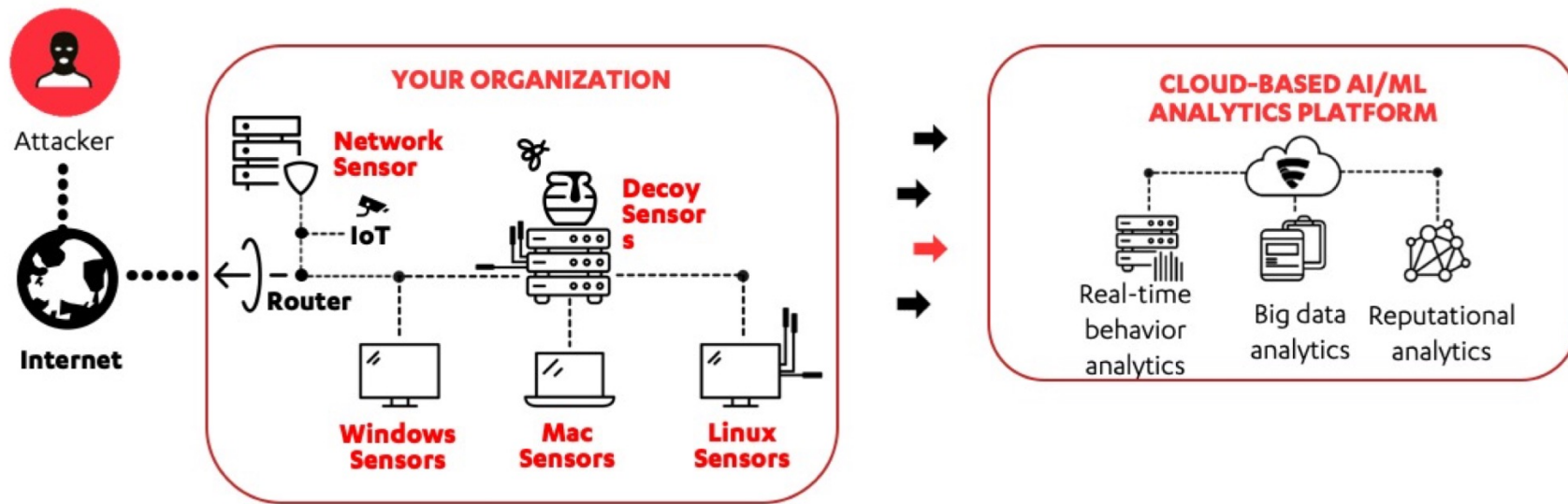




RAPID DETECTION & RESPONSE SERVICE: COMBINING MAN & MACHINE



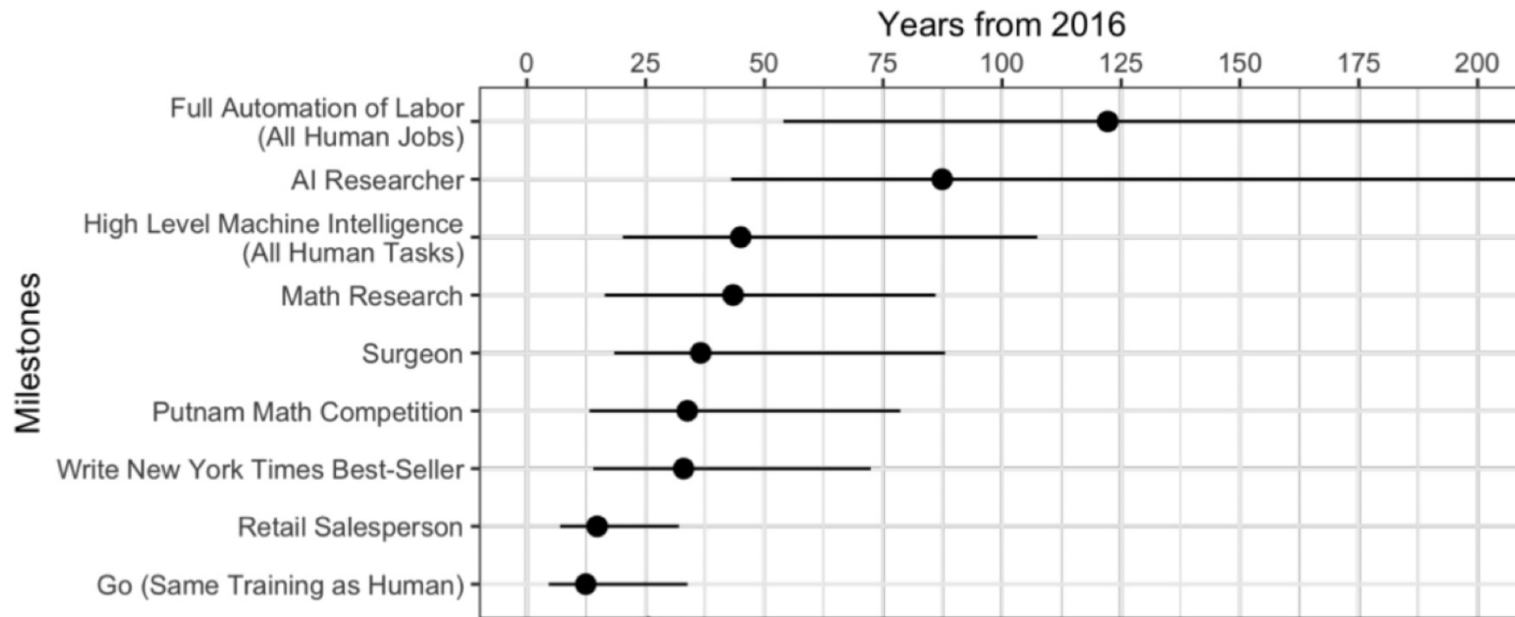
RAPID DETECTION & RESPONSE SERVICE: COMBINING MAN & MACHINE



KÜNSTLICHE INTELLIGENZ?

KEINE PANIK!

(AUSSE SIE SIND IM SALES)

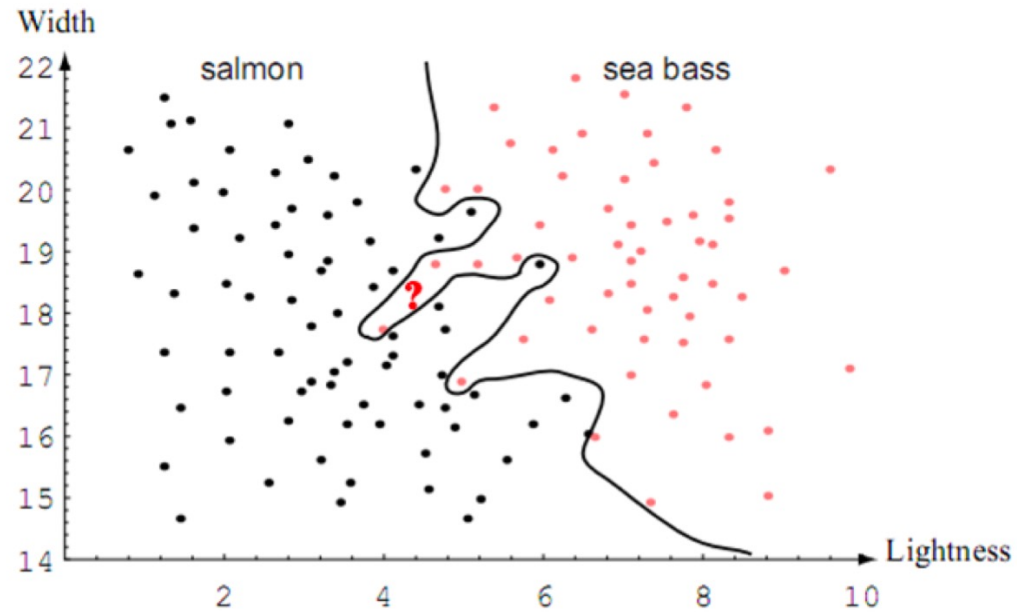


<https://arxiv.org/abs/1705.08807>

~~KÜNSTLICHE INTELLIGENZ?~~

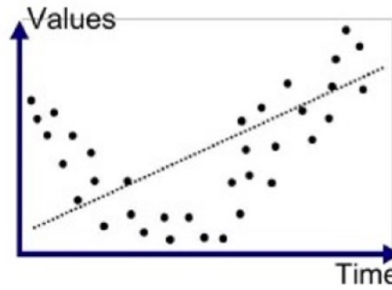
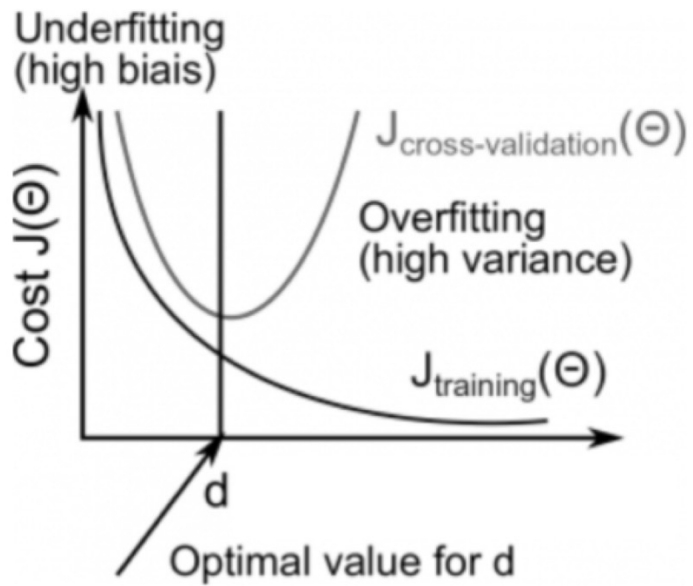
MACHINE LEARNING!

ENTSCHEIDUNGSGRENZE

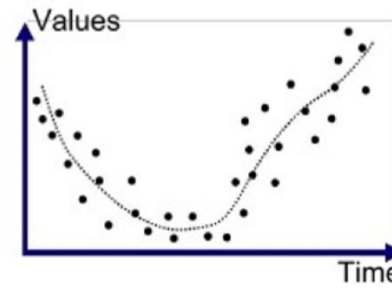


<https://mhesham.wordpress.com/tag/decision-boundary/>

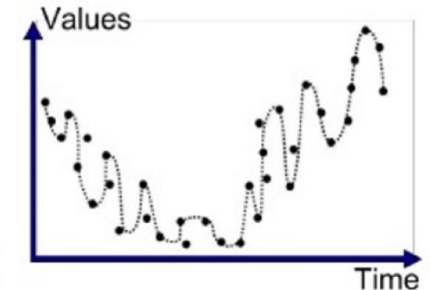
OVERFITTING



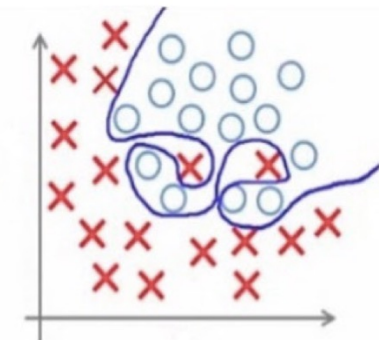
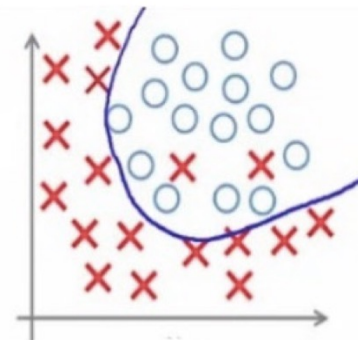
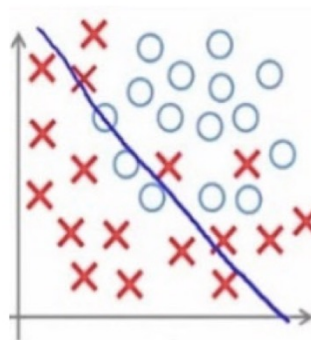
Underfitted



Good Fit/Robust



Overfitted



<https://medium.com/greyatom/what-is-underfitting-and-overfitting-in-machine-learning-and-how-to-deal-with-it-6803a989c76>

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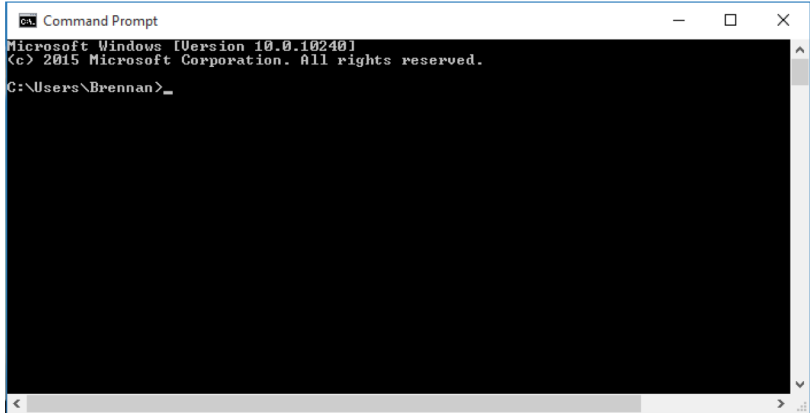
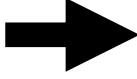
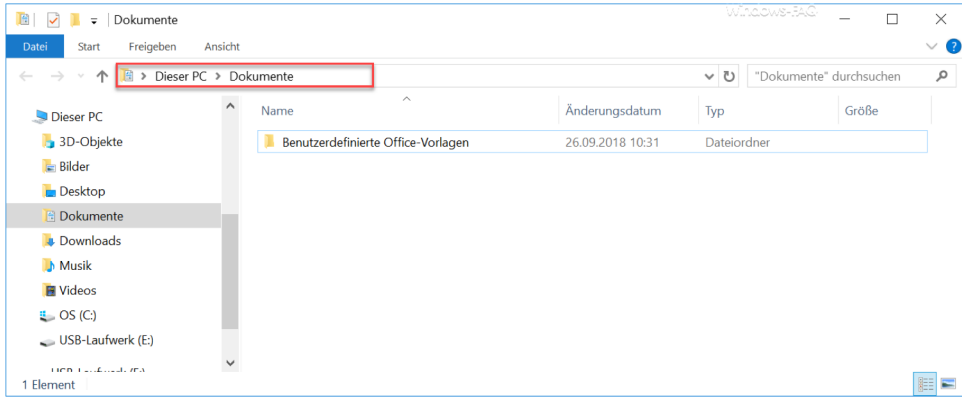
<p>Linear Vector Spaces: Definition: A linear vector space, X, is a set of elements (vectors) defined over a scalar field, F, that satisfies the following conditions: 1) if $x \in X$ and $y \in X$ then $x+y \in X$ 2) $\alpha x \in X$ for all $\alpha \in F$ and $x \in X$ 3) $(\alpha\beta)x = \alpha(\beta x)$ 4) $1x = x$ for all $x \in X$ 5) For each vector $x \in X$ there is a unique vector in X, to be called $(-x)$, such that $x + (-x) = 0$. 6) multiplication, for all scalars $a \in F$, and all vectors $x \in X$, 7) For any $x \in X$, $1x = x$ (for scalar 1). 8) For any two scalars $a \in F$ and $b \in F$ and any $x \in X$, $a(bx) = (ab)x$. 9) $(a+b)x = ax + bx$ 10) $a(cx) = a(cx)$</p> <p>Linear Independence: Consider n vectors $\{x_1, x_2, \dots, x_n\}$. If there exists scalars a_1, a_2, \dots, a_n, at least one of which is nonzero, such that $a_1x_1 + a_2x_2 + \dots + a_nx_n = 0$, then the $\{x_i\}$ are linearly dependent. Spanning a Space: Let X be a linear vector space and let $\{u_1, u_2, \dots, u_n\}$ be a subset of vectors in X. This subset spans X if and only if for every vector $x \in X$ there exist scalars s_1, s_2, \dots, s_n such that $x = s_1u_1 + s_2u_2 + \dots + s_nu_n$.</p> <p>Inner Product: $\langle x, y \rangle$ for any scalar function of x and y. 1. $\langle x, x \rangle = \ x\ ^2$ 2. $\langle \alpha x, \beta y \rangle = \alpha\beta \langle x, y \rangle$ 3. $\langle x, y \rangle = \langle y, x \rangle$ 4. $\langle x, x+y \rangle = \langle x, x \rangle + \langle x, y \rangle$ 5. $\langle x, y \rangle \geq 0$, where equality holds iff x is the zero vector.</p> <p>Norm: A scalar function $\ x\$ is called a norm if it satisfies: 1. $\ x\ \geq 0$ 2. $\ x\ = 0$ if and only if $x = 0$. 3. $\ ax\ = a \ x\$ 4. $\ x+y\ \leq \ x\ + \ y\$</p> <p>Angle: The angle θ bet. 2 vectors x and y is defined by $\cos \theta = \frac{\langle x, y \rangle}{\ x\ \ y\ }$</p> <p>Orthogonality: 2 vectors $x, y \in X$ are said to be orthogonal if $\langle x, y \rangle = 0$.</p> <p>Gram Schmidt Orthogonalization: Assume that we have n independent vectors y_1, y_2, \dots, y_n. From these vectors we will obtain n orthogonal vectors v_1, v_2, \dots, v_n. $v_1 = y_1, \quad v_k = y_k - \sum_{i=1}^{k-1} \frac{\langle y_k, v_i \rangle}{\langle v_i, v_i \rangle} v_i$ where $\frac{\langle y_k, v_i \rangle}{\langle v_i, v_i \rangle} v_i$ is the projection of y_k on v_i.</p> <p>Vector Expansions: $x = \sum_{i=1}^n x_i v_i = x_1 v_1 + x_2 v_2 + \dots + x_n v_n$ for orthogonal vectors, $x_j = \frac{\langle x, v_j \rangle}{\langle v_j, v_j \rangle}$</p> <p>Reciprocal Basis Vectors: $(v_i, v_j) = \begin{cases} 1 & i=j \\ 0 & i \neq j \end{cases}, \quad x_j = (v_j, x)$ To compute the reciprocal basis vectors: set $B^{-1} = [v_1 \ v_2 \ \dots \ v_n]$, $R^{-1} = [r_1 \ r_2 \ \dots \ r_n]$, $R^{-1} = B^{-1}$ In matrix form: $x^T = B^{-1} x^T$</p> <p>Transformations: A transformation consists of three parts: domain: $X = \{x_i\}$, range: $Y = \{y_i\}$, and a rule relating each $x_i \in X$ to an element $y_i \in Y$.</p> <p>Linear Transformations: transformation A is linear if: 1. for all $x_1, x_2 \in X$, $A(x_1 + x_2) = A(x_1) + A(x_2)$ 2. for all $\alpha \in F$, $x \in X$, $A(\alpha x) = \alpha A(x)$</p> <p>Matrix Representations: Let $\{v_1, v_2, \dots, v_n\}$ be a basis for vector space X, and let $\{w_1, w_2, \dots, w_n\}$ be a basis for vector space Y. Let A be a linear transformation with domain X and range Y: $A(x) = y$ The coefficients of the matrix representation are obtained from $A(v_j) = \sum_{i=1}^n a_{ij} w_i$</p> <p>Change of Basis: $B_1 = [t_1 \ t_2 \ \dots \ t_n]$, $B_2 = [w_1 \ w_2 \ \dots \ w_n]$ $A' = [B_2^{-1} A B_1]$</p> <p>Eigenvalues & Eigenvectors: $Az = \lambda z$, $(A - \lambda I) = 0$ Diagonalization: $B = [z_1 \ z_2 \ \dots \ z_n]$, where $\{z_1, z_2, \dots, z_n\}$ are the eigenvectors of a square matrix A. $[B^{-1} A B] = \text{diag}(\lambda_1, \lambda_2, \dots, \lambda_n)$</p>	<p>Perceptron Architecture: $a = \text{hardlim}(Wp + b)$, $W = [w^T \ w^T \ \dots \ w^T]^T$, $a_i = \text{hardlim}(w_i)$, $w^T p + b = 0$</p> <p>Decision Boundary: $w^T p + b = 0$ The decision boundary is always orthogonal to the weight vector. Single-layer perceptrons can only classify linearly separable vectors.</p> <p>Perceptron Learning Rule: $W^{new} = W^{old} + ep^T$, $b^{new} = b^{old} + e$, where $e = t - a$</p> <p>Hebb's Postulate: When an axon of cell A is near enough to excite a cell B and repeatedly or persistently takes part in firing it, some growth process or metabolic change takes place in one or both cells such that A's efficiency, as one of the cells firing B, is increased.</p> <p>Linear Associator: $a = \text{purelin}(Wp)$</p> <p>The Hebb Rule: Supervised Form: $w_{ij}^{new} = w_{ij}^{old} + t_{ij} p_i q_j$ $W = t_1 P_1^T + t_2 P_2^T + \dots + t_q P_q^T$ $W = [t_1 \ t_2 \ \dots \ t_q] \begin{bmatrix} p_1^T \\ p_2^T \\ \vdots \\ p_q^T \end{bmatrix} = TP^T$</p> <p>Pseudoinverse Rule: $W = TP^+$ When the number, R, of rows of P is greater than the num ber of columns, Q, of P and the columns of P are independent, then the pseudoinverse can be computed by $P^+ = (P^T P)^{-1} P^T$</p> <p>Variations of Hebbian Learning: Filtered Learning: $W^{new} = (1 - \gamma)W^{old} + \alpha t_q p_q^T$ Delta Rule (Ch.10): $W^{new} = W^{old} + \alpha(t - a_q) p_q^T$ Unsupervised Hebb (Ch.13): $W^{new} = W^{old} + \alpha a_q p_q^T$</p> <p>Taylor: $F(x) = F(x^*) + \nabla F(x^*)^T [x - x^*] + \frac{1}{2} (x - x^*)^T \nabla^2 F(x^*) [x - x^*] + \dots$ Grad: $\nabla F(x) = \left[\frac{\partial}{\partial x_1} F(x) \quad \frac{\partial}{\partial x_2} F(x) \quad \dots \quad \frac{\partial}{\partial x_n} F(x) \right]^T$</p> <p>Hessian: $\nabla^2 F(x) = \begin{bmatrix} \frac{\partial^2}{\partial x_1^2} F(x) & \frac{\partial^2}{\partial x_1 \partial x_2} F(x) & \dots & \frac{\partial^2}{\partial x_1 \partial x_n} F(x) \\ \frac{\partial^2}{\partial x_2 \partial x_1} F(x) & \frac{\partial^2}{\partial x_2^2} F(x) & \dots & \frac{\partial^2}{\partial x_2 \partial x_n} F(x) \\ \vdots & \vdots & \ddots & \vdots \\ \frac{\partial^2}{\partial x_n \partial x_1} F(x) & \frac{\partial^2}{\partial x_n \partial x_2} F(x) & \dots & \frac{\partial^2}{\partial x_n^2} F(x) \end{bmatrix}$</p> <p>Directional Derivatives: 1st Dir. Der.: $\frac{p^T \nabla F(x)}{\ p\ }$, 2nd Dir. Der.: $\frac{p^T \nabla^2 F(x) p}{\ p\ ^2}$</p> <p>Minima: Strong Minimum: if a scalar $\delta > 0$ exists, such that $F(x) < F(x + \Delta x)$ for all Δx such that $\ \Delta x\ > 0$ Global Minimum: if $F(x) < F(x + \Delta x)$ for all $\Delta x \neq 0$ Weak Minimum: if it is not a strong minimum, and a scalar $\delta > 0$ exists, such that $F(x) \leq F(x + \Delta x)$ for all Δx such that $\ \Delta x\ > 0$.</p> <p>Necessary Conditions for Optimality: 1st Order Condition: $\nabla F(x) = 0$ (Stationary Points) 2nd Order Condition: $\nabla^2 F(x) _{x=x^*} \geq 0$ (Positive Semi-definite Hessian Matrix).</p> <p>Quadratic fn.: $F(x) = \frac{1}{2} x^T A x + d^T x + c$ $\nabla F(x) = Ax + d$, $\nabla^2 F(x) = A$, $\lambda_{min} \leq \frac{p^T A p}{\ p\ ^2} \leq \lambda_{max}$</p>
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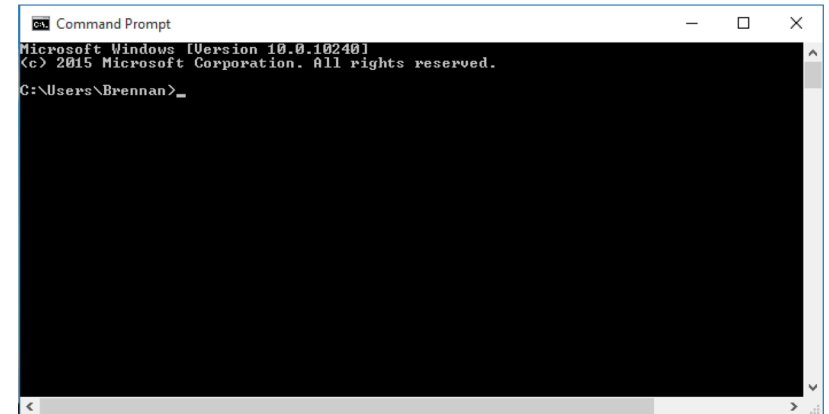
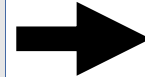
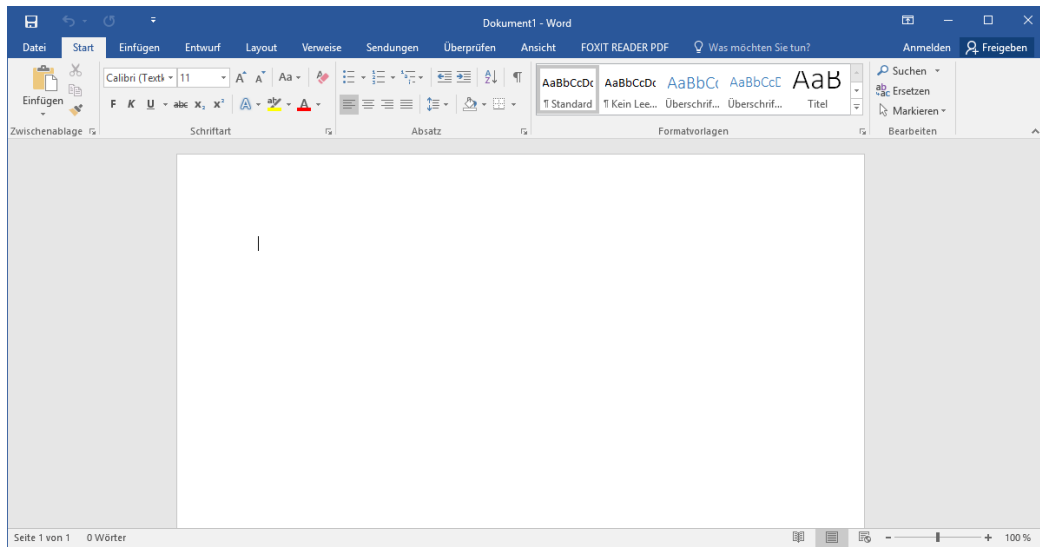
<p>General Minimization Algorithm: $x_{k+1} = x_k + \alpha_k p_k$ or $\Delta x_k = (x_{k+1} - x_k) = \alpha_k p_k$</p> <p>Steepest Descent Algorithm: $x_{k+1} = x_k - \alpha_k g_k$ where, $g_k = \nabla F(x) _{x=x_k}$</p> <p>Stable Learning Rate: $(\alpha_k = \alpha, \text{ constant}) \alpha < \frac{2}{\lambda_{max}}$ $\{\lambda_1, \lambda_2, \dots, \lambda_n\}$ Eigenvalues of Hessian matrix A</p> <p>Learning Rate to Minimize Along the Line: $x_{k+1} = x_k + \alpha_k p_k \Rightarrow \alpha_k = -\frac{g_k^T p_k}{p_k^T A p_k}$ (For quadratic fn.)</p> <p>After Minimization Along the Line: $x_{k+1} = x_k + \alpha_k p_k \Rightarrow g_{k+1}^T p_k = 0$</p> <p>ADALINE: a = purelin(Wp + b) Mean Square Error: (for ADALINE it is a quadratic fn.) $F(x) = E[e^2] = E[(t - a)^2] = E[(t - x^T z)^2]$ $F(x) = c - 2x^T h + x^T R x$, $c = E[t^2]$, $h = E[zt]$ and $R = E[zz^T] \Rightarrow A = 2R$, $d = -2h$ Unique minimum, if it exists, is $x^* = R^{-1} h$, where $x = \begin{bmatrix} 1 \\ w \end{bmatrix}$ and $z = \begin{bmatrix} 1 \\ p \end{bmatrix}$</p> <p>LMS Algorithm: $W(k+1) = W(k) + 2\alpha e(k) p^T(k)$ $b(k+1) = b(k) + 2\alpha e(k)$</p> <p>Convergence Point: $x^* = R^{-1} h$ Stable Learning Rate: $0 < \alpha < 1/\lambda_{max}$ where λ_{max} is the maximum eigenvalue of R</p> <p>Adaptive Filter ADALINE: $a(k) = \text{purelin}(Wp(k) + b) = \sum_{i=1}^n w_{i,j}(k-1) + b$</p> <p>Backpropagation Algorithm: Performance Index: Mean Square error: $F(x) = E[e^2] = E[(t - a)^T (t - a)]$ Approximate Performance Index: (single sample) $F(x) = e^T (k) e = (t(k) - a(k))^T (t(k) - a(k))$</p> <p>Sensitivity: $s^m = \frac{\partial F}{\partial n^m} = \begin{bmatrix} \frac{\partial F}{\partial n_1^m} & \frac{\partial F}{\partial n_2^m} & \dots & \frac{\partial F}{\partial n_n^m} \end{bmatrix}^T$</p> <p>Forward Propagation: $a^0 = p$, $a^{m+1} = f^{m+1}(W^{m+1} a^m + b^{m+1})$ for $m = 0, 1, \dots, M-1$ $a = a^M$</p> <p>Backward Propagation: $s^M = -2F^M(n^M)(t - a)$, $s^m = f^{m+1}(n^m) (W^{m+1})^T s^{m+1}$ for $m = M-1, \dots, 2, 1$, where $f^m(n^m) = \text{diag}(\{f^{m+1}(n_1^m) \ f^{m+1}(n_2^m) \ \dots \ f^{m+1}(n_n^m)\})$ $f^m(n^m) = \frac{\partial f^m(n^m)}{\partial n^m}$</p> <p>Weight Update (Approximate Steepest Descent): $W^m(k+1) = W^m(k) - \alpha s^m (a^{m-1})^T$ $b^m(k+1) = b^m(k) - \alpha s^m$</p>	<p>*Heuristic Variations of Backpropagation: Batching: The parameters are updated only after the entire training set has been presented. The gradients calculated for each training example are averaged together to produce a more accurate estimate of the gradient if the training set is complete, i.e., covers all possible input/output pairs, then the gradient estimate will be exact.</p> <p>Backpropagation with Momentum (MOBP): $\Delta W^m(k) = \gamma \Delta W^m(k-1) - (1 - \gamma) \alpha s^m (a^{m-1})^T$ $\Delta b^m(k) = \gamma \Delta b^m(k-1) - (1 - \gamma) \alpha s^m$</p> <p>Variable Learning Rate Backpropagation (VLBP): 1. If the squared error (over the entire training set) increases by more than some set percentage ζ (typically one to five percent) after a weight update, then the weight update is discarded, the learning rate is multiplied by some factor $\rho < 1$, and the momentum coefficient γ (if it is used) is set to zero. 2. If the squared error decreases after a weight update, then the weight update is accepted and the learning rate is multiplied by some factor $\eta > 1$. If γ has been previously set to zero, it is reset to its original value. 3. If the squared error increases by less than ζ, then the weight update is accepted but the learning rate and the momentum coefficient are unchanged.</p> <p>Association: $a = \text{hardlim}(W^0 p + Wp + b)$ An association is a link between the inputs and outputs of a network so that when a stimulus A is presented to the network, it will output a response B.</p> <p>Associative Learning Rules: Unsupervised Hebb Rule: $W(q) = W(q-1) + \alpha a(q) p^T(q)$</p> <p>Hebb with Decay: $W(q) = (1 - \gamma)W(q-1) + \alpha a(q) p^T(q)$ Instar: $a = \text{hardlim}(Wp + b)$, $a = \text{hardlim}(w^T p + b)$ The instar is activated for $w^T p + b \geq \theta$, $\ w\ \cos \theta \geq -b$ where θ is the angle between p and w. Instar Rule: $w(q) = w(q-1) + \alpha a_i(q) (p(q) - w(q-1))$ $w(q) = (1 - \alpha) w(q-1) + \alpha p(q)$, if $a_i(q) = 1$</p> <p>Kohonen Rule: $w(q) = w(q-1) + \alpha (p(q) - w(q-1))$ for $i \in X(q)$</p> <p>Outstar Rule: $a = \text{sallins}(Wp)$ $w_j(q) = w_j(q-1) + \alpha (a(q) - w_j(q-1)) p_j(q)$</p> <p>Competitive Layer: $a = \text{compet}(Wp) = \text{compet}(n)$ Competitive Learning with the Kohonen Rule: $c^i w(q) = c^i w(q-1) + \alpha (p(q) - c^i w(q-1))$ $= (1 - \alpha) c^i w(q-1) + \alpha p(q)$ $c^i w(q) = c^i w(q-1)$, $i \neq l^*$ where l^* is the winning neuron.</p> <p>Self-Organizing with the Kohonen Rule: $c^i w(q) = c^i w(q-1) + \alpha (p(q) - c^i w(q-1))$ $= (1 - \alpha) c^i w(q-1) + \alpha p(q)$, $i \in N_l - \{d\}$ $N_l(d) = \{j, d_l\} \leq d\}$</p> <p>LVQ Networks: $w_i^2 = 1 \Rightarrow$ subclass i is a part of class k $n_i^2 = -\ w^1 - p\$, $a^1 = \text{compet}(n^1)$, $a^2 = W^2 a^1$ LVQ Network Learning with the Kohonen Rule: $c^i w^1(q) = c^i w^1(q-1) + \alpha (p(q) - c^i w^1(q-1))$ if $a_k^2 = t_k = 1$ $c^i w^1(q) = c^i w^1(q-1) - \alpha (p(q) - c^i w^1(q-1))$, if $a_k^2 = 1 \neq t_k = 0$</p>
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<p>hardlim: $a = \begin{cases} 0 & n < 0 \\ 1 & n \geq 0 \end{cases}$, hardlims: $a = \begin{cases} -1 & n < 0 \\ 1 & n \geq 0 \end{cases}$, purelin: $a = n$, Logsig: $a = \frac{1}{1 + e^{-n}}$, tanSigt: $a = \frac{e^n - e^{-n}}{e^n + e^{-n}}$, poslim: $a = \begin{cases} 0 & n < 0 \\ n & n \geq 0 \end{cases}$</p> <p>compet: $a = \begin{cases} 1 & \text{neuron with max } n \\ 0 & \text{all other neurons} \end{cases}$, sallins: $a = \begin{cases} 0 & n < 0 \\ 1 & 0 \leq n \leq 1 \\ n & 1 < n < 2 \\ 2 & n \geq 2 \end{cases}$</p> <p>Delay: $a(t) = u(t-1)$, Integrator: $a(t) = \int_0^t u(\tau) d\tau + a(0)$</p>	<p>MINSTL: $\text{diag}([1 \ 2 \ 3]) = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{bmatrix}$</p>
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Source: <https://becominghuman.ai/cheat-sheets-for-ai-neural-networks-machine-learning-deep-learning-big-data-678c51b4b463>

HÄ?

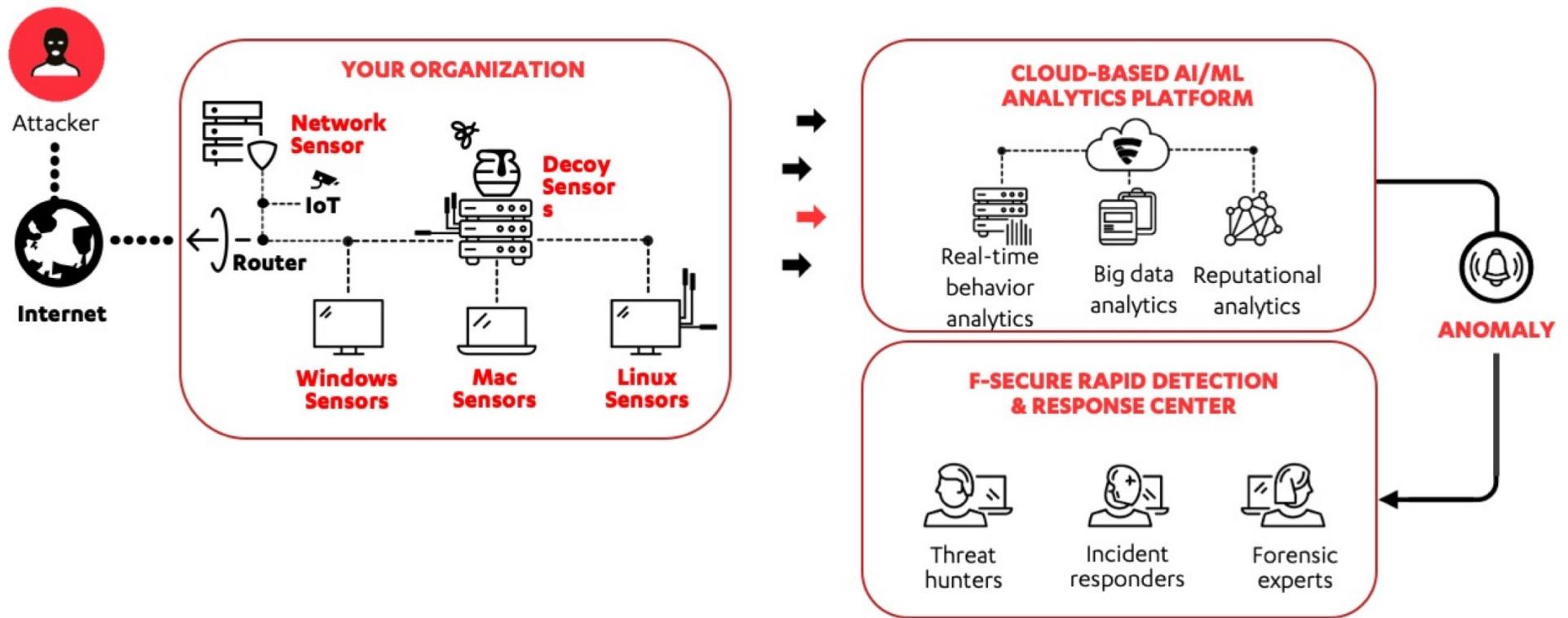




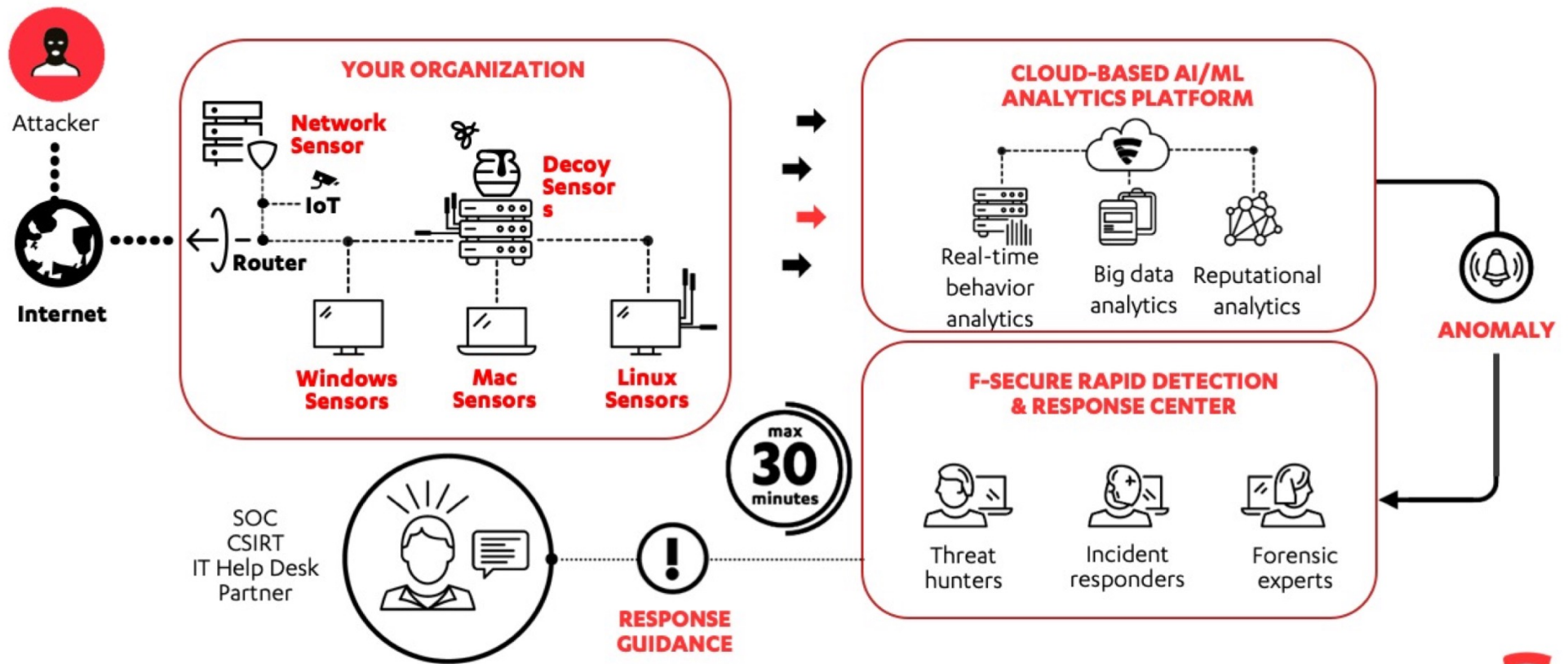
MACHINE LEARNING?

Parent process	Child process	Score
Explorer.exe	Chrome.exe	0.05
Explorer.exe	Winword.exe	0.008
Chrome.exe	Acroread32.exe	0.001
Mail.exe	Winword.exe	0.03
Winword.exe	Cmd.exe	0.000001
Chrome.exe	Chr-tmp-dfadsf-installer.exe	0.0002
Chr-tmp-dfadsf-installer.exe	Chrome.exe	0.0004
Winword.exe	Excel.exe	0.07
Explorer.exe	Wow.exe	0.002

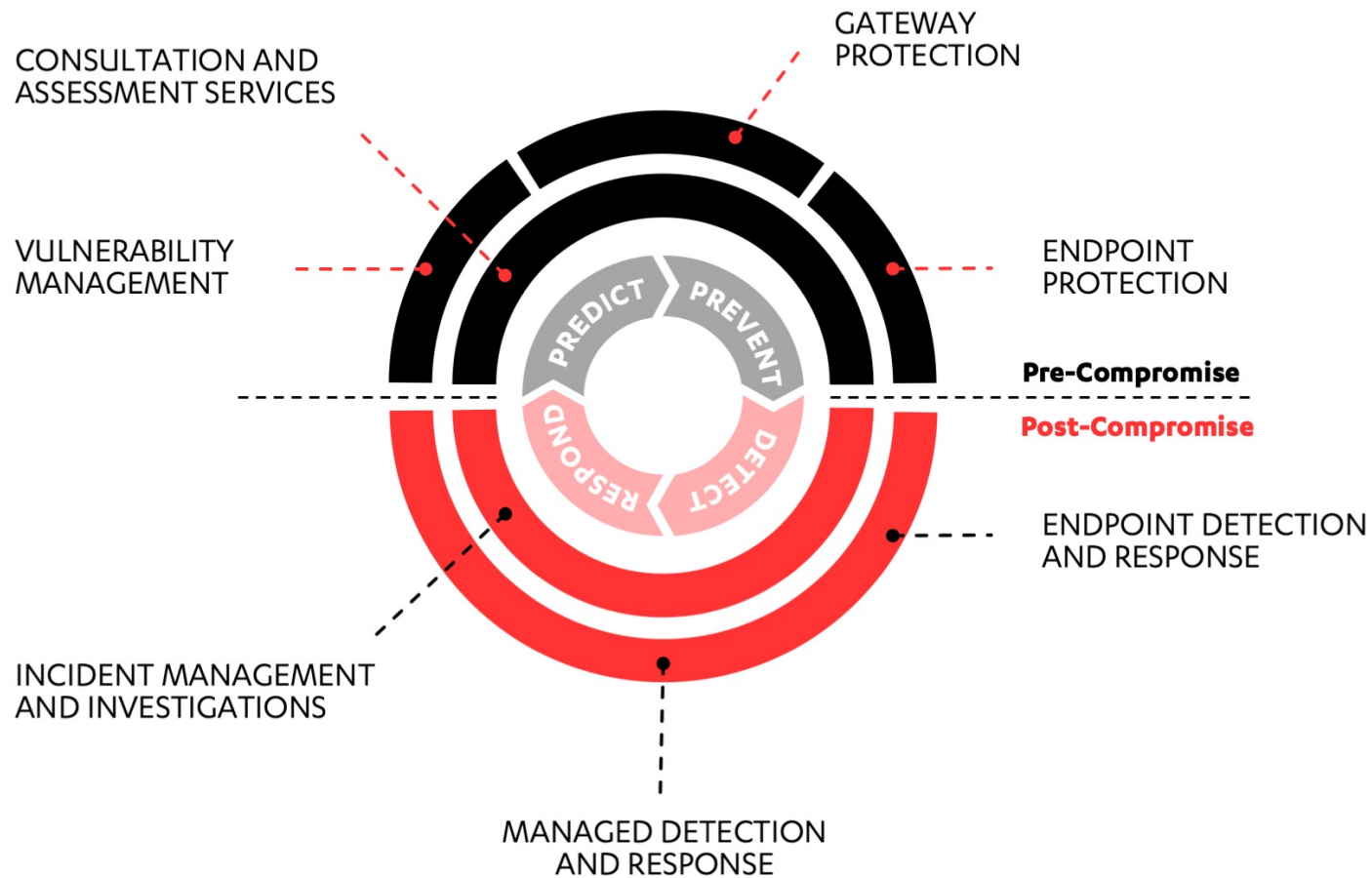
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