

Hello



Danny Rotert

BURNS  **MCDONNELL**SM





Royals™



Congressman
EMANUEL CLEAVER



Mayor
SLY JAMES





1

Make it relatable
(people love stories)

THROUGH THE ROOF

WATER DAMAGE

BROKEN PIPES AND APPLIANCE FAILURES

Quick Fix: Replace failed supply hoses with PVC pipes - \$20

Long-term: Install steel braided hoses on appliances - \$100

OVERLOADED RAIN GUTTERS

Quick Fix: Clean your gutters - \$0

Long-term: Get gutters cleaned professionally - \$175

RAMPANT TREE ROOTS

Quick Fix: Use drain treatments to stunt growth near pipes - \$20

Long-term: Professionally remove tree stumps - \$236

\$6,965

AVERAGE
COST OF DAMAGE

VS

\$551

ESTIMATED
COST OF PREVENTION



RETURN ON INVESTMENT



2

It's about people
(not stuff)





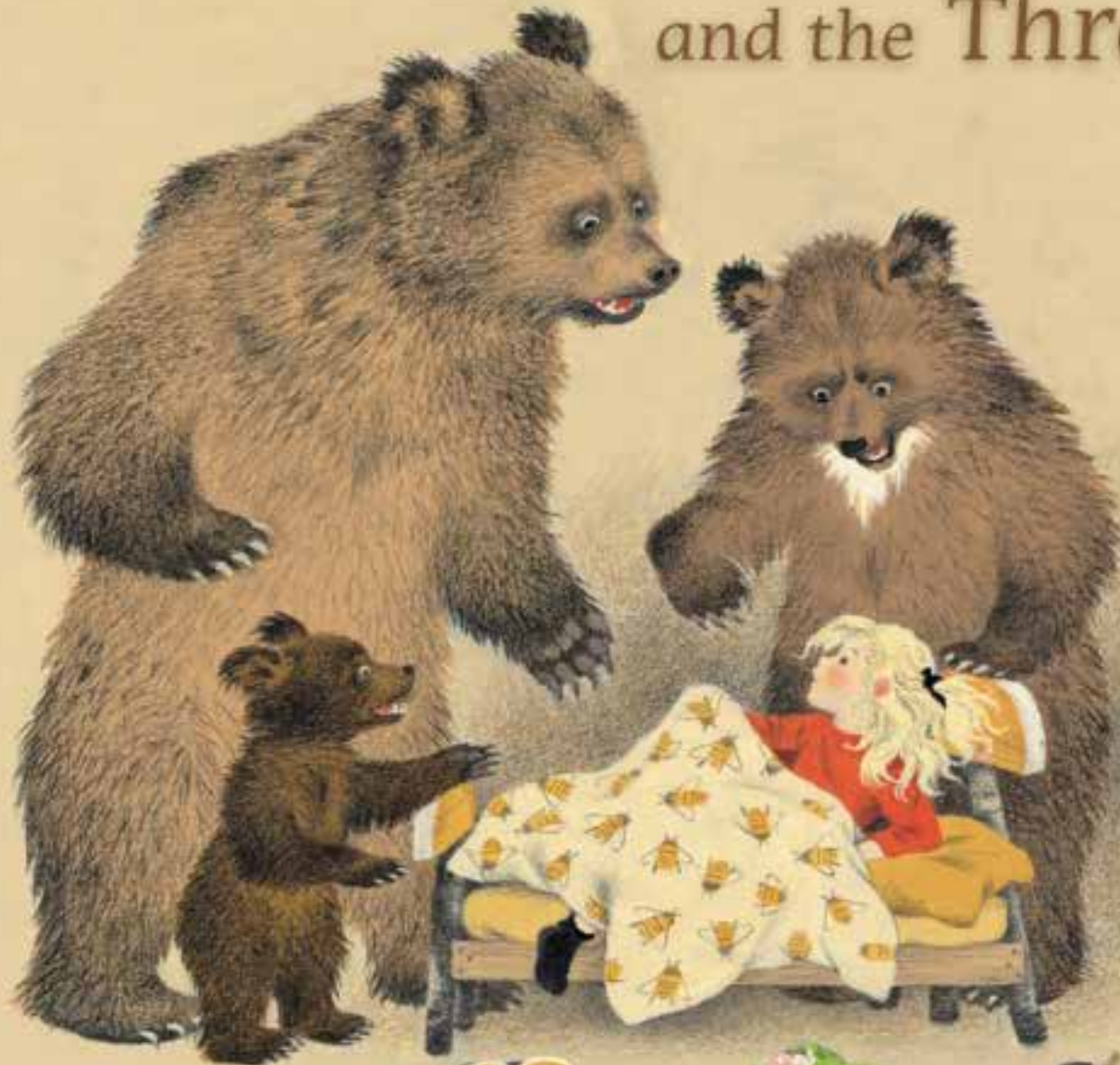
3

One size never
fits all

Goldilocks

and the Three Bears

Gerda Muller







4

It's not about the
numbers
(but they are cool)

$$|D(T, \varepsilon, a, b)| \leq 2$$

$$\varphi(\sigma_1 t) \varphi(\sigma_2 t) = \varphi(\sqrt{\sigma_1^2 + \sigma_2^2} t)$$

$$\sum_{k=1}^r \int_{b_k}^{x+b_k} \left(\int_0^t \varphi_k^*(z) dz \right) dt - x \int_0^x \varphi_k^*(\tau) d\tau = \frac{x^2}{2} B(x) + \int_0^x (x-u) \sum_{k=1}^r \varphi_k^*(u) du \quad A(x) = \sum_{k=1}^r b_k$$

$$P(x) = \frac{\sum_{k=1}^r P_k^* \log_2 \frac{1}{P_k}}{\sum_{k=1}^r P_k^*}$$

$$C_{12} \sigma_k^2 = \lambda; C_{1k} = \frac{1}{\sqrt{2\pi}}$$

$$\int_{-\infty}^{+\infty} e^{-\frac{t^2}{2}} dt$$

$$\eta_1 = \sum_{k=1}^n a_k \xi_k$$

$$\log \varphi(u) = -\frac{\sigma^2 u^2}{2}$$

$$i^2 = -1; j^2 = -1; k^2 = -1 \quad \lim_{n \rightarrow \infty} \frac{(2n)}{(n)}$$

$$S(\alpha, \tau) = \frac{2}{\pi} \int_0^\pi \frac{\sin \alpha t}{t} dt$$

$$P(\eta_{\infty} < x) = F(x)$$

$$f(t|y) = \frac{2e^{-\frac{y^2}{2}}}{\sqrt{2\pi}} \left(\frac{e^{-\frac{t^2}{2}}}{(1 - \frac{y^2}{u^2})^{\frac{3}{2}}} \right)$$

$$S_n = A_n U_n \Pi A_n$$

$$W_k = \binom{n}{k} p^k (1-p)^{n-k}$$

$$P(\eta < y | \xi = x) = \sup_{y' < y, y' < 0} P(\eta < y' | \xi = x)$$

$$|A_n| = \frac{n!}{2} \left| \int_{|x| > A} f(x) \log_2 \frac{1}{f(x)} dx \right| < \varepsilon$$

$$g^{-1} \cdot g = e$$

$$g = \sqrt{\frac{\lambda_n}{\nu_n}} \left(\frac{\eta_{2n}}{\sqrt{\lambda_n}} + \frac{\eta_{2n} - \eta_{2n}}{\sqrt{\lambda_n}} \right)$$

$$H_r(x) = \frac{G_r(x)}{1 + G_r(x)}$$

$$\int_{-\infty}^{+\infty} dG_k(x) \geq \frac{1}{2} \sum_{k=1}^{+\infty} e^{-\frac{k^2 \pi^2}{2}} = H(k)$$

$$\prod_{k \leq b}; \bigcup_{i=1}^{n-1} M_i; \bigcap_{n=0}^{\infty} X_n$$

$$f_n(t) = \frac{\lambda^n t^{n-1} e^{-\lambda t}}{(n-1)!}$$

$$\lim_{n \rightarrow +\infty} \frac{f_n(u)}{n} = P_k$$

$$U_n^{(x)} = \binom{2n}{n} - \dots$$

$$f_{n-1}(t) = \int_0^t f_n(u) f_1(t-u) du = \frac{\lambda^{n+1} t^n e^{-\lambda t}}{n!}$$

$$\lim_{t \rightarrow 0} (f_n(t)) = 0$$

$$C_{iv} = \sum_{j=1}^n a_{ij} b_{jv}$$

$$R = \int_{-\infty}^{+\infty} \varphi(t) dt$$

$$\frac{\sinh t}{t} [\varphi(t) e^{-it}]$$

$$\log \varphi(t) = i\gamma t - c|t|^\alpha \left[1 + i\beta \frac{t}{|t|} \omega(t, u) \right] \quad B(x) = \sum_{k=1}^r \varphi^*(b_k u)$$

$$\lim_{n \rightarrow \infty} P \left(\frac{f_{n+1} - a_n - \log \frac{1}{q}}{\sqrt{1-q}} \right) C_n(x) \geq \frac{n!}{\prod_{k=1}^n n_k(x)}$$

$$\frac{u}{m} \varphi(t) = \varphi(c)$$

$$\int_{-\infty}^{+\infty} e^{-\frac{u^2}{2}} du = F(x) \left(\frac{1}{\sqrt{2\pi}} \right)^{-1} \quad |\Psi_{\xi}(t)| = \left| \int_{-\infty}^{+\infty} e^{itx} dF(x) \right| \leq \int_{-\infty}^{+\infty} e^{-vx} dF(x) = \varphi_{\xi}(iv)$$

$$g^{-1} N g = \{g^{-1} n g | n \in N\}$$

$$Q = F^{-1}(q)$$

$$q_n(x) = \frac{P_k^*}{\sum_{j=1}^r P_j^*}$$

$$|X \cup Y| = |X| + |Y| - |X \cap Y|$$

$$\lim_{n \rightarrow \infty} \frac{1}{n} h_n \left(\frac{x}{\sqrt{n}} \right) = \frac{1}{\sqrt{2\pi}} e^{-\frac{x^2}{2}}$$

$$P_n(b) = \frac{C_n}{P_k^*} \quad P \left(\limsup_{n \rightarrow \infty} \frac{|h_n|}{\sqrt{2n \log \log n}} \leq 1 \right) = 1 \quad (p_1) = 1 - \dots$$

$$f: X \rightarrow X \cap W$$

$$Q(A) = \int_A \chi(w) dP \quad l'(x) = -\log_2 \left(\frac{\sum_{k=1}^r P_k^* \log_2 \frac{1}{P_k}}{\sum_{k=1}^r P_k^*} - \left(\frac{\sum_{k=1}^r P_k^* \log_2 \frac{1}{P_k}}{\sum_{k=1}^r P_k^*} \right)^2 \right)$$

$$fg(u_i) = f \left(\sum_{j=1}^{dim k} a_{ji} v_j \right) = \sum_{j=1}^{dim k} a_{ji} \left(\sum_{k=1}^{dim k} b_{kj} w_k \right) \frac{\binom{2k}{k}}{2^k} \approx \dots$$

$$q \left(c^{-x} \sqrt{\frac{1-q}{nq}} - 1 \right) = x \sqrt{\frac{q(1-q)}{n}} + o \left(\frac{1}{n} \right)$$

$$\prod_{k=1}^r \left[g_k \left(\frac{t}{\sqrt{n_0}} \right) \right]^{N_0 \alpha_k} = e^{-\frac{t^2}{2}}$$

$$P_{j,k}^{(m)} = \sum_{c=0}^{\infty} P_{j,c}^{(r)} P_{c,k}^{(m-r)} \quad \frac{1}{2\pi} \int_{-\infty}^{+\infty} \operatorname{Re} \left\{ \varphi(t) \frac{e^{-ita} - e^{-itb}}{it} \right\} dt$$

$$\liminf_{N \rightarrow \infty} \int_{-\infty}^{+\infty} f_N(x)^\alpha dx \geq \int_{-\infty}^{+\infty} f(x)^\alpha dx$$

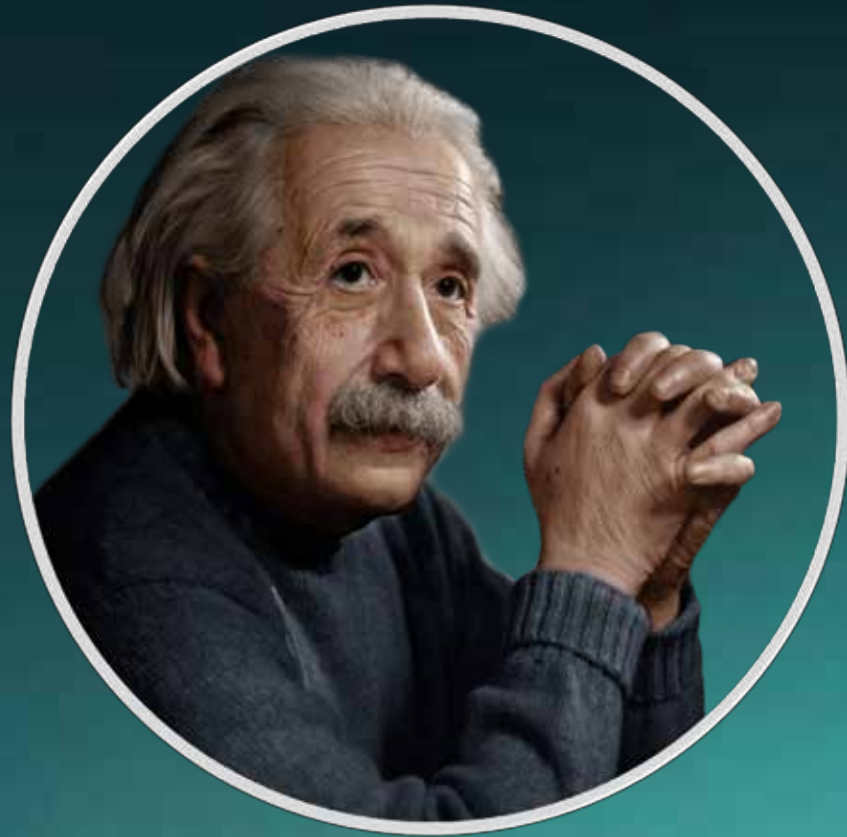
$$M(\delta_j - \delta_j^*) = \int_0^{\infty} |x - 1| e^{-x} dx$$

$$\lim_{N \rightarrow \infty} \int_{-A}^{+A} f_N(x) \log_2 \frac{1}{f_N(x)} dx = \int_{-A}^{+A} f(x) \log_2 \frac{1}{f(x)} dx$$

$$D^2(j_n) \leq \frac{k}{n} + 2k \left(\frac{1}{2} \sum_{k=1}^n R(k) \right)$$

$$\det(M') = \det(M) + \det(M^*) = \det(M)$$

$$h(x,y) = \frac{1}{2\pi} \left[\sqrt{2} e^{-\frac{x^2}{2}} - e^{-x^2} \right] \quad |M(e_n, e_m)| \leq C_2$$



“Any intelligent fool can make things bigger and more complex... It takes a touch of genius - and a lot of courage to move in the opposite direction.”

Compliance



Aspiration



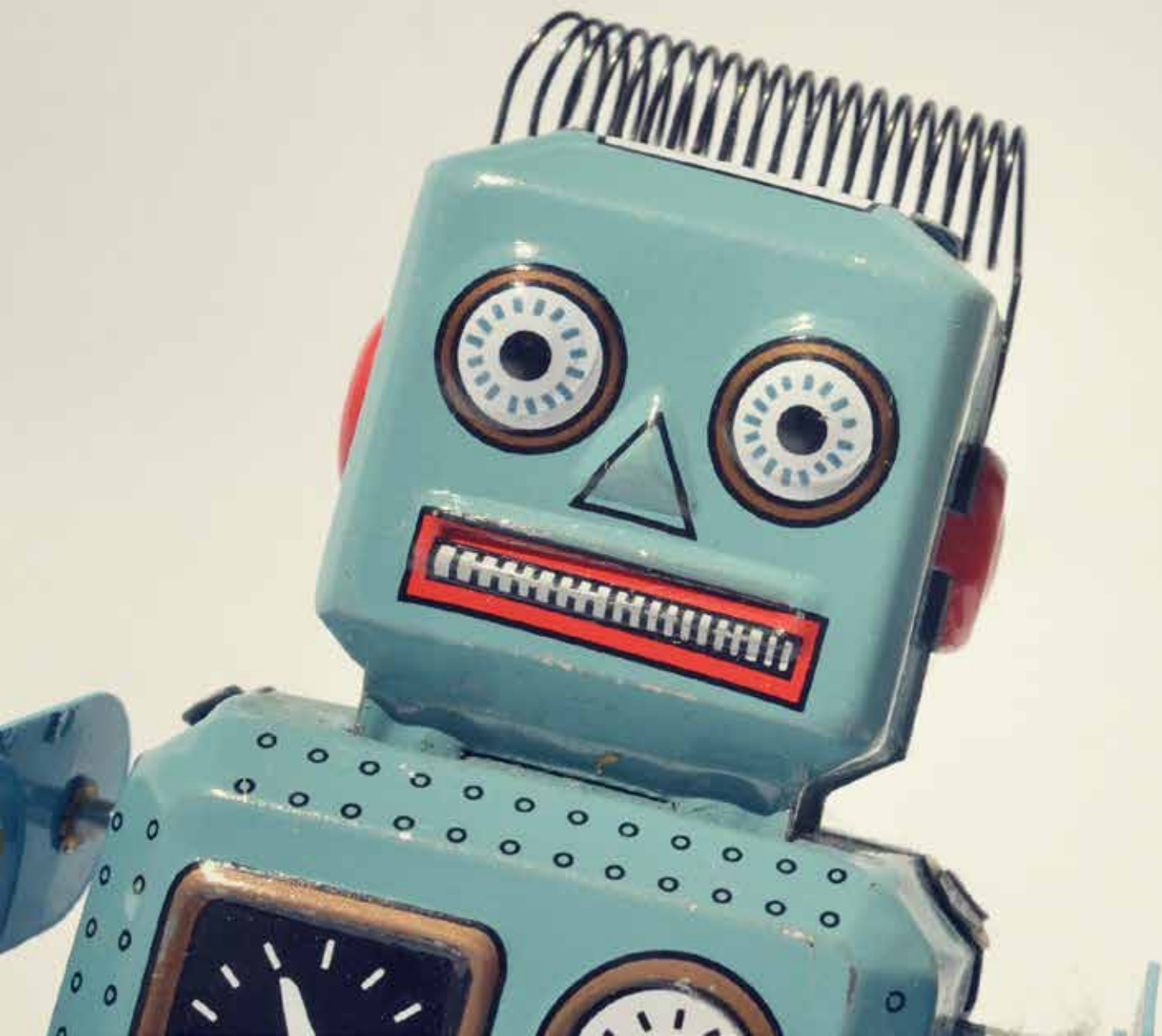




1

Be human

(its tech...but be real)





2

It's interactive
(so...interact)





3

It takes time...
(but happens fast)





Barack Obama @BarackObama

6 Nov

Four more years. pic.twitter.com/bAJE6Vom

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815,648
RETWEETS

297,602
FAVORITES





TWEETS
4

FOLLOWING
65

FOLLOWERS
2.29M



President Obama ✓

@POTUS

Dad, husband, and 44th President of the United States. Tweets may be archived: wh.gov/privacy.

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Tweets

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President Obama @POTUS · May 20

An honor to address the Coast Guard class of 2015. Confident they'll help us meet big challenges like climate change.





4

Have fun

(and dont be afraid to be funny)



Mass. Transportation

@MassDOT

 **Follow**

"Use Yah Blinkah!"

7:11 AM - 9 May 2014

459 RETWEETS **329** FAVORITES



Thank
you!

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THE *Royals*