

.NET Usergroup Zentralschweiz

KNOW YOUR WARM-UP

The speaker

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The idea



The context



The problem

$$E_k = \frac{1}{2} m v^2 \quad \text{tg } \alpha = \frac{v_y}{v_x} = \frac{m_2}{m_1} = m_{21} \quad \rho V = n R T \quad \vec{\Psi} = \iint \vec{B} d\vec{S} = A D \quad H_\lambda = \frac{\Delta M_e}{\Delta \lambda}$$

$$-\frac{\hbar^2}{2m} \frac{d^2 \psi}{dx^2} + V \psi = E \psi \quad M_e = \sigma T^4 \quad \phi_e = \frac{L}{\Delta t} \int \frac{\Delta \phi}{2\pi} = \frac{\Delta x}{2\pi} = \frac{x_2 - x_1}{2\pi} \quad V = c/\lambda \quad \Phi = NBS$$

$$U_{ef} = \frac{U_m}{\epsilon - 1} \quad U = \frac{W_{AB}}{\epsilon - 1} = \frac{|E_{PA} - E_{PB}|}{\epsilon - 1} = |V_A - V_B| \quad X_L = \frac{U_m}{I_m} = \omega L = 2\pi f L \quad F_g = \frac{m_1 m_2}{2\pi d} \quad \vec{F}_m = \vec{B} I l = \frac{\mu I_1 I_2}{2\pi d} l$$

$$\vec{B} = \mu_0 \frac{NI}{2r} \quad v = \frac{nh}{2\pi r m_e} \quad \phi_e = \frac{E_e - E_e}{\hbar} = k \frac{Q}{r} \quad \mu = N \cdot m_0 = \frac{Q}{v_e} \frac{M_m}{N_A} \quad E = \frac{E_c}{a} \int \sin(\omega t + \phi) dy \quad R_m = \frac{c}{T} k = \pm \sqrt{\frac{2m}{\hbar^2} (E - V_0)}$$

$$k = \frac{p^2}{2m} \quad m_0 = \frac{M_m}{N_A} = \frac{M_r \cdot 10^{-3}}{N_A} \quad l_e = l_0(1 + \Delta t) \quad I = \frac{U_e}{R + R_i} \quad \omega = 2\pi f$$

$$\lambda = \frac{h}{\sqrt{2eUm_e}} \quad R = \rho \frac{l}{S} \quad E = mc^2 \quad \sin \alpha = \frac{v_1}{c} = \frac{m_2}{m_1} \quad v = \frac{1}{\sqrt{\epsilon \cdot \mu}} = \frac{c}{\sqrt{\epsilon \cdot \mu_r}}$$

$$f_0 = \frac{1}{2\pi} \sqrt{\frac{g}{e}} \quad \psi(\alpha) = \sqrt{2/L} \sin \frac{n\pi x}{L} \quad E = \frac{1}{2} \hbar \omega / m \quad \beta = \frac{\Delta I c}{\Delta t} \quad \phi_e = \frac{\Delta E}{\Delta t} \quad \frac{m_1}{x} + \frac{m_2}{x'} = \frac{m_2 - m_1}{v}$$

$$\oint \vec{B} d\vec{l} = \mu_0 \iint \vec{J} d\vec{S} \quad \vec{S} = \frac{1}{\mu_0} (\vec{E} \times \vec{B}) \quad E_k = \frac{h^2}{8mL^2} \quad \oint \vec{D} d\vec{S} = Q^*$$

$$v_k = \sqrt{\frac{3kT}{m_0}} = \sqrt{\frac{3kT N_A}{M_m}} = \sqrt{\frac{3R_m T}{M_r \cdot 10^{-3}}} \quad E = \hbar^2 k^2 / 2m \quad PC = \frac{1 AU}{r} \quad S R = \frac{U}{I} \quad F_v = \int F_n$$

$$\lambda = \frac{h m_2}{T} \quad F_h = S h \rho g \quad f_0 = \frac{1}{2\pi \sqrt{CL}} \quad M = \int F d \cos \alpha \quad R$$

$$\left(\frac{E_t}{E_0}\right)_{||} = \frac{2 \cos \alpha_1 \cos \alpha_2}{\cos(\alpha_1 - \alpha_2) \sin(\alpha_1 + \alpha_2)} \quad \int \vec{E} d\vec{l} = - \iint \frac{\partial \vec{B}}{\partial t} \cdot d\vec{S} \quad p = \frac{E}{c} = \frac{h f}{c} = \frac{h}{\lambda}$$

$$E_y = E_0 \sin(kx - \omega t) \quad R = R_0 \sqrt{A} \quad S = \frac{1}{A} \frac{dW}{dt} \quad \oint \vec{H} d\vec{l} = \iint (\vec{J} + \frac{\partial \vec{D}}{\partial t}) \cdot d\vec{S} \quad \phi = mc \Delta t \quad F_g = g r \frac{M_0 M_2}{r^2}$$

$$W = F \cdot s \cdot \cos \alpha \quad L = 10 \log \frac{I}{I_0} \quad \Delta \psi = \frac{2\pi \Delta x}{\lambda} = \frac{2\pi d \sin \alpha}{\lambda} = \frac{2\pi dy}{xL}$$

$$\oint \vec{B} d\vec{l} = \mu_0 \sum I_i \quad P = UI \quad h = \frac{1}{2} g t^2 \quad v = v_1(1 + \beta \Delta t) \quad \frac{\partial^2 E}{\partial t^2}$$

$$C R = \frac{(m-1)^2 + \beta^2}{(n+1)^2 + \beta^2} \quad f' = \frac{v_a \cdot v_b}{(m-1)(n_0 - n_a)} \quad \nabla \times \left(-\frac{\partial \vec{B}}{\partial t}\right) = -\frac{\partial}{\partial t} (\text{rot } \vec{B}) = -\mu_0 \frac{\partial}{\partial t} \left(\frac{\partial \vec{B}}{\partial t}\right) = \epsilon_0 \mu_0 \frac{\partial^2 E}{\partial t^2}$$

A solution



The warm-up

- Unit Testing at the beginning -> TDD
- 1 Verwaltungsfenster (inkl. Menueintrag)
- 5 Prozesse (einfache bis anspruchsvolle)
- 2 Reports (in Prozesse integriert)
- Ausbildungsdokument für neuen Mitarbeiter
- Ausbildungskonzept-Dokument für Betreuer

The coaching



The demo

The screenshot displays the AKIS/net web application interface. At the top, there is a search bar with the text "Person suchen" and a dropdown menu. Below the search bar, the user's name "100388 [nP] Hodel Peter 4232 Fehren" is displayed. The navigation menu includes "Home", "MI", "Betrieb", and "Verwaltung". The main content area is divided into several sections:

- Prozessmonitor (eigene)**: A section with a play button icon and the text "Alle Persönl." and a refresh icon.
- Suchen**: A search section.
- Personenindex**: A section with a refresh icon.
- Person**: A detailed profile for Peter Hodel, including:
 - VersNr: 756.4380.6980.40
 - Register-Nr.: 475.53.336.119
 - Name: Hodel Peter
 - Adresse (Domizil:SO): Stuben Fehren
 - Familie/Kinder: 1 Ehe, 5 Kinder
 - Geburtsdatum: 05.08.53
 - Arbeitsvertrag: fehlt
 - Saldo: 0.00
 - Buchungsaufträge: Keine
- Dossier / Pendenzen / Notizen**: A section showing:
 - Dossier: kein Dossier
 - Prozesse: kein Prozess
 - Pendenzen/Notizen: 4 (4 pendent)/ 0
- Versicherungen**: A section showing:
 - Indiv. Konto: 1 Kopf, 1 ZIK
 - BV-Konto: BB
- Leistungen**: A section showing:
 - WEF: 14.02.2006
- Inhouse Portal**: A section with a play button icon.

The conclusion

- Mehrere Entwickler durch das warm-up erfolgreich produktiv
- Positives Feedback von neuen Mitarbeitern sowie von Vorgesetzten
- Anwendung kann später auch für eigene Experimente oder exploratives Testen verwendet werden

Any questions?