

Was ist Informatik?

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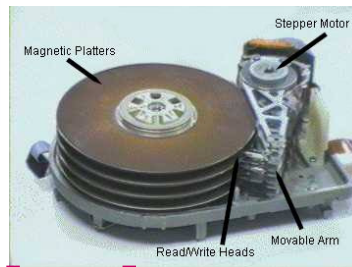


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Hardware:



Pentium® II processor



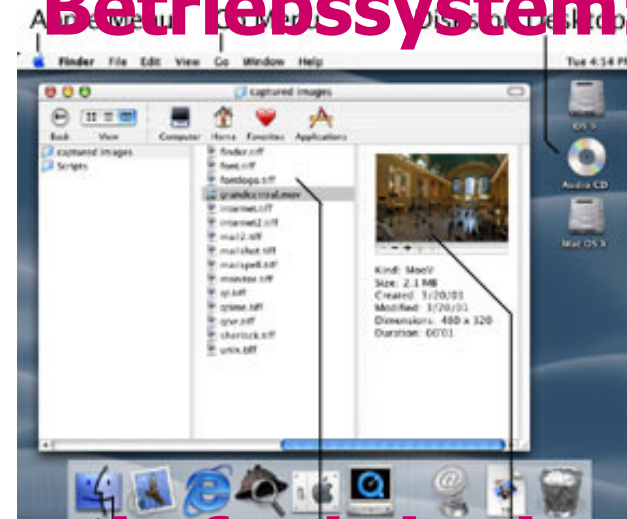
wie funktioniert
ein Computer?

Software:

```
public void run() {
    //Get the images.
    Image[] images = new Image[10];
    for (int i = 1; i <= 10; i++) {
        images[i-1] = getImage(getCodeBase(),
            "images/T"+i+".gif");
    }
    buildUI(getContentPane(), images);
    startAnimation();
}
```

wie programmiere
ich Java?

Betriebssystem:



wie funktioniert
zB Mac OS X?

Theorie:

3.1 Varieties of Automata: concepts, definition

Notation: Alphabet A , e.g. $A = \{0, 1, \dots\}$. Kleene
 $A^+ = AA^*$. Nullstring ϵ . Empty set $\{\}$ or \emptyset .

“Language” $L \subseteq A^*$. Set $S = \{s, s', \dots, s_0, s_1, \dots\}$.

Deterministic Finite Automaton (FA, DFA) M
Set of states S , alphabet A , transition function $f: S \times A \rightarrow S$
Extended from $S \times A \rightarrow S$ to $f: S \times A^* \rightarrow S$ as follows
Df: M accepts $w \in A^*$ iff $f(s_0, w) \in F$. Set $L \subseteq$

wie kann etwas
berechnet werden?