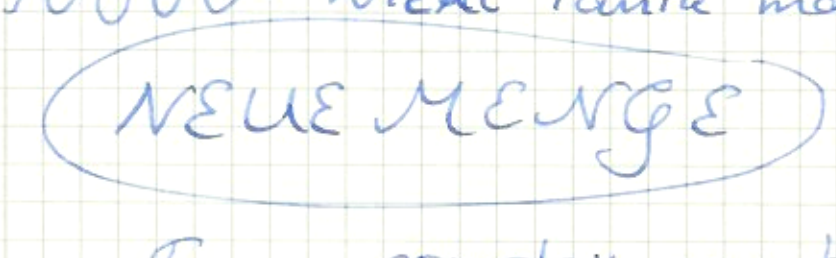
Me, Myself and i

- $i^2 = -1$  DAS GEHT !! NICHT ! ... nicht in $\mathbb{R}$



$\mathbb{C}$... complex numbers
but... your personality is way more complex...

- IDEE 1 wie Polynome in X, nur dann in i, und jedes mal wenn ein i^2 erscheint

$$\boxed{i^2 \longmapsto -1}$$

Ü: $i^3 = \ldots$ $i^4 = \ldots$, $i^5 = \ldots$

Ü: $i^{2n} = (-1)^n$ $i^{4n} = 1$

Allgemeine Form $a + b \cdot i$

$a \in \mathbb{R}$ me; $b \in \mathbb{R}$ myself; and i

Ü: $(2+3i) - (18+i) =$

$(\sqrt{2} - \sqrt{3} \cdot i)(\sqrt{2} + \sqrt{3} \cdot i) =$

$(1+2i) \cdot (3+4i) =$

- IDEE 2 $\underbrace{a+b \cdot i}_{\mathbb{C}}$ "$\approx$" $\underbrace{(a|b)}_{\mathbb{R}^2}$

* Houston, we've got a 2D number!
* Who is it?
* I! ..... * You?