

ISAAC SHEFF

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# PROGRAMMING LANGUAGES

# BROGRAMMING LANGUAGES

WANT TO BRO DOWN AND  
CRUSH CODE?



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**CRUSH CODE?**

**KLOUT IS HIRING**

 software engineers  
platform engineers  
product managers  
research engineer

**What is Klout?**  
Klout has created Page Rank  
for people by analyzing twitter,  
facebook and other social networks.



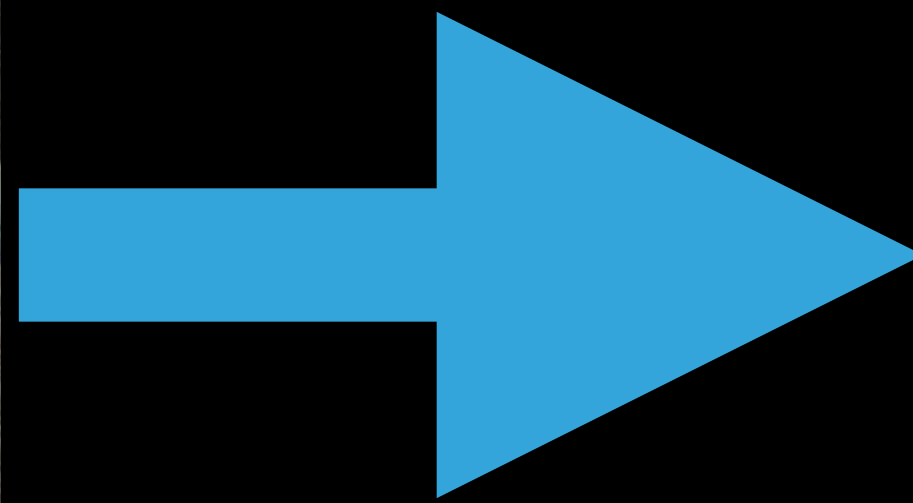
**Why join us?**  
We're rocking huge data sets  
while becoming the standard  
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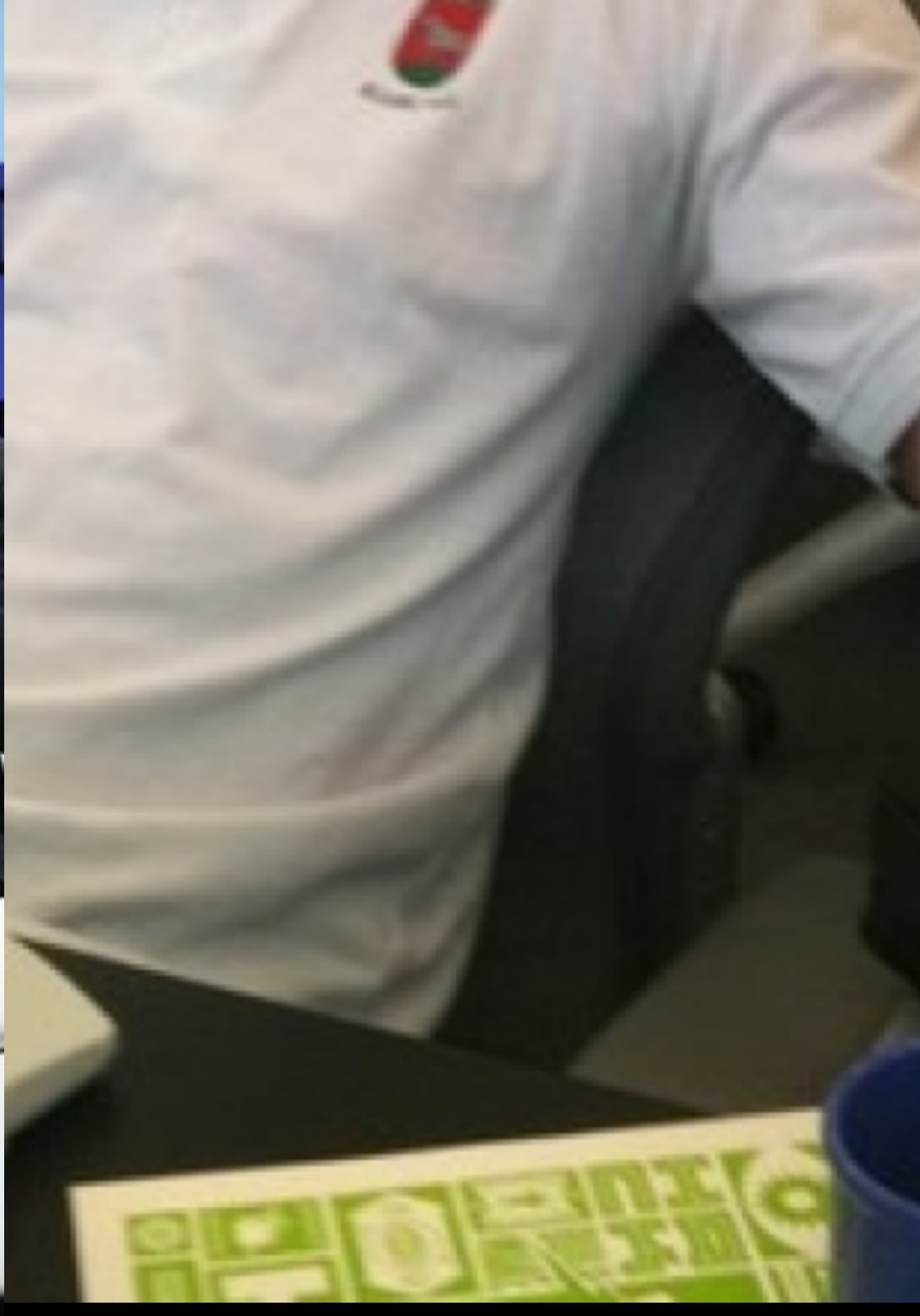






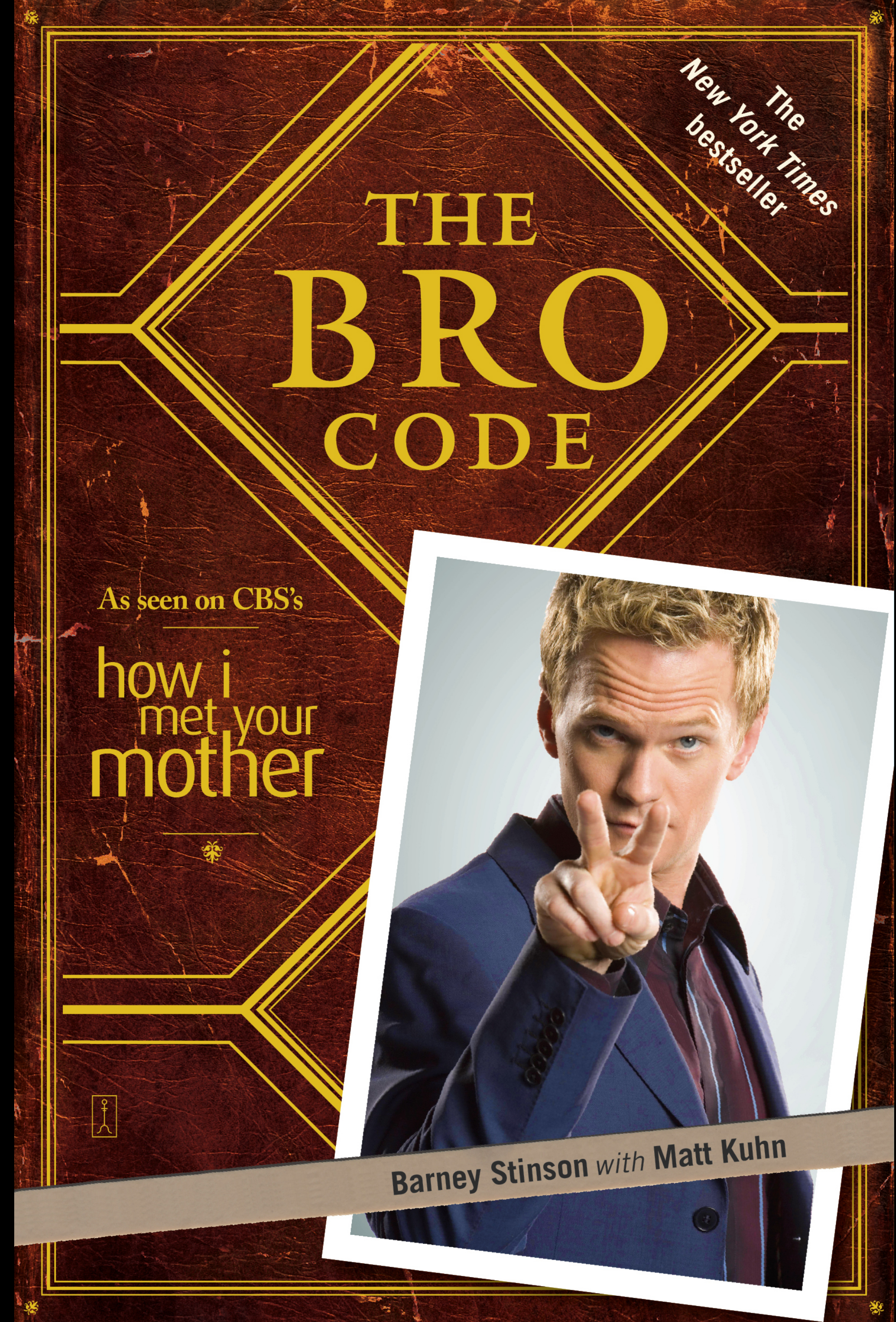








# The Bro Network Security Monitor (brolog)



## PLAN



## CRUSH CODE?



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## PERFORMANCE



# BROGRAMMING LANGUAGES

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## PERFORMANCE



# BROGRAMMING LANGUAGES

## PARALLELISM



# SHOTS

...

{

...

...

...

...

...

...

...

}

...





## BLOCK RECURSIVE OBJECTS

...

```
bro = BRO {
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
}
```

...



# BRO CORE

---

## WINGMAN

...

```
bro = BRO {  
  dude = wingman(...)
```

...

...

...

...

...

...

```
}
```

...



# BRO CORE

## WINGMAN

...

```
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)
```

...

...

...

...

...

}

...



# BRO CORE

## KOLLECTIVE EXECUTION GROUPS

```
nattielite = KEG { 12 bytes }
```

```
bro = BRO {
```

```
  dude = wingman(...)
```

```
  brah = wingman(...)
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
  ...
```

```
}
```

```
...
```



# BRO CORE

## KOLLECTIVE EXECUTION GROUPS

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  ...  
  ...  
  ...  
}
```



```
ho = H0 { cassandra(...) }
```

# BRO CORE

## KOLLECTIVE EXECUTION GROUPS

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  ...  
  ...  
}
```

...



# BRO CORE

## KOLLECTIVE EXECUTION GROUPS

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  nattielite.BEERRUN(redcup2)  
  ...  
}
```



...

# BRO CORE

## HUGE OBJECTS

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  nattielite.BEERRUN(redcup2)  
  ...  
}
```





# BRO CORE

## HUGE OBJECTS

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  nattielite.BEERRUN(redcup2)  
  ho.interact(...)  
}  
  
ho = H0 { cassandra(...) }
```



# BRO CORE

## CRUSH CODE

```
nattielite = KEG { 12 bytes }
bro = BRO {
  dude = wingman(...)
  brah = wingman(...)
  redcup1 <- nattielite(...)
  redcup2 <- nattielite(...)
  redcup2++
  nattielite.BEERRUN(redcup2)
  ho.interact(...)
}

ho = H0 { cassandra(...) }
```

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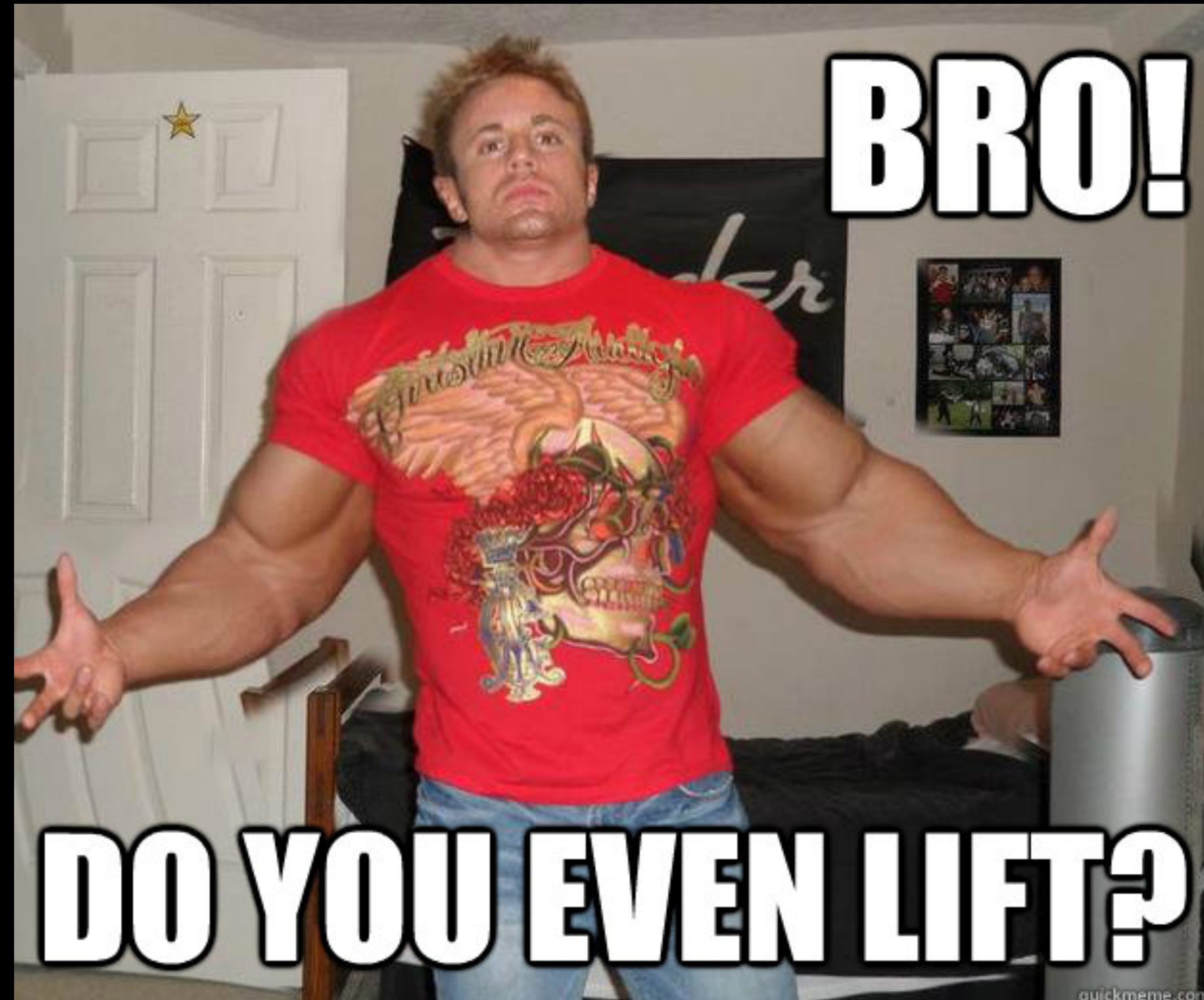
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# BRO CORE

## CRUSH CODE

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  nattielite.BEERRUN(redcup2)  
  ho.interact(...)  
}
```

```
ho = H0 { cassandra(...) }
```



# BRO CORE

## CRUSH CODE

```
nattielite = KEG { 12 bytes }  
bro = BRO {  
  dude = wingman(...)  
  brah = wingman(...)  
  redcup1 <- nattielite(...)  
  redcup2 <- nattielite(...)  
  redcup2++  
  nattielite.BEERRUN(redcup2)  
  ho.interact(...)  
}
```

```
ho = H0 { cassandra(...) }
```



# BRO CORE

## CRUSH CODE

```
nattielite = KEG { 12 bytes }  
bro = BRO { 0xB16B00B5 }
```

```
ho = H0 { cassandra(...) }
```



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# BROGRAMMING LANGUAGES

Code you can crush.