

Another Primitive:
doubles

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Java

Review

What if there were just int's?

Calculate GPA:

$$(3 + 4 + 4 + 4 + 3)/5 = ?$$

doubles

What is the value if decimals
are used?

$$(3.0 + 4.0 + 4.0 + 4.0 + 3.0)/5.0 = ?$$

doubles

Breaking news....

Selecting the correct variable type is REALLY important in representing the problem in a computer program.

doubles

Simple Definition:

- two whole numbers with a decimal between them
- can be +, -, 0
- used for measuring

Advanced Definition:

- Value ranges
 - furthest from zero $1.7e^{308}$
 - closest to zero $1.7e^{-308}$

double's.....

double variable creation:

double joe;

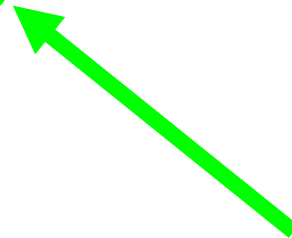
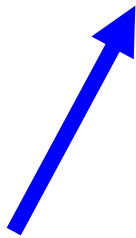
no initial value
in joe

variable

variable

is of type double

name



double's.....

Would this compile?

```
System.out.print(joe);
```

Try it!

double's.....

```
double a;  
double b, c;  
double d;  
a = 1.0;  
b = 3.0;  
c = 10.0;  
d = a + b + c;  
System.out.println(d);  
d = d + a + b + c;  
System.out.println(d);
```


Lab

Write a java program that converts a Fahrenheit temperature to Celsius.