variables

variables

- like a bucket

variables

- like a bucket

- with a name tag

variables

- like a bucket
- with a name tag
- good for storing things

variable assignment

```php
<?php                                    output

$sum = 1 + 2;
echo $sum.'<br>';
$sum = 4 + 5;
echo $sum.'<br>';
$sum = $sum + $sum;
```

variable assignment and use

output

```php
$sum = 1 + 2;
echo $sum.'<br>';
$sum = 4 + 5;
echo $sum.'<br>';
$sum = $sum + $sum;
```

note! doesn't exist until after 1st statement!

variable assignment and use

```php
<?php

$sum = 1 + 2;
echo $sum.'<br>';
$sum = 4 + 5;
echo $sum.'<br>';
$sum = $sum + $sum;
```

output

sum

variable assignment and use

<?php

$sum = 1 + 2;
echo $sum.'
';
➤ $sum = 4 + 5;
echo $sum.'
';
$sum = $sum + $sum;

3

output

3

variable assignment and use

9

```php
<?php                                    output

$sum = 1 + 2;                            3
echo $sum.'<br>';
$sum = 4 + 5;
echo $sum.'<br>';
$sum = $sum + $sum;
```

sum

variable assignment and use

9

<?php

$sum = 1 + 2;
echo $sum.'
';
$sum = 4 + 5;
echo $sum.'
';
$sum = $sum + $sum;

output

3
9

HELLO
MY NAME IS

sum

variable assignment and use

<?php

$sum = 1 + 2;
echo $sum.'
';
$sum = 4 + 5;
echo $sum.'
';
$sum = $sum + $sum;

18

output

3
9

HELLO
MY NAME IS
sum

```php
<?php

$nPickles = 20;
$nMorePickles = 10;
$totalPickles = $nPickles + $nMorePickles;

echo $totalPickles;
```

```php
<?php

$nPickles = 20;
$nMorePickles = 10;
$totalPickles = $nPickles + $nMorePickles;

echo $totalPickles;
```

20

HELLO
MY NAME IS
nPickles

```php
<?php

$nPickles = 20;
$nMorePickles = 10;
$totalPickles = $nPickles + $nMorePickles;

echo $totalPickles;
```

```php
<?php

$nPickles = 20;
$nMorePickles = 10;
$totalPickles = $nPickles + $nMorePickles;

echo $totalPickles;
```

20   10   30

HELLO MY NAME IS nPickles

HELLO MY NAME IS nMorePickles

HELLO MY NAME IS totalPickles

variables and function arguments

```php
<?php

function add($a, $b) {
  $result = $a + $b;
  return $result;
}
```

variables

- variable names start with $ in php

- in Javacript, they do not

iteration in php

iteration

```
<?php     initializer     end condition     step
              ↓                  ↓             ↓
for ($i = 0; $i < 3; $i++) {
  print 'pickle ';
}
```