

arrays in php

arrays in php



two types of arrays

- linear (or “numeric”)
 - items referenced by number
- associative
 - items referenced by name

php: linear arrays

arrays: linear

```
<?php
```

```
$pickleNames = array(  
    'Gherkin',  
    'Polish',  
    'Hungarian',  
    'Swedish'  
);
```



php: linear arrays

access to linear array

```
<?php
```

```
$pickleNames = array(  
[0]    'Gherkin',  
[1]    'Polish',  
[2]    'Hungarian',  
[3]    'Swedish'  
);
```

```
print $pickleNames[2];
```

← zero-based index

php

iteration over linear array

```
<?php
```

```
$pickleNames = array(  
    'Gherkin',  
    'Polish',  
    'Hungarian',  
    'Swedish'  
);
```

variable takes on the value of each item in turn.



```
foreach ($pickleNames as $pickleName) {  
    print $pickleName.', ';  
}
```

```
for ($i = 0; $i < count($pickleNames); $i++) {  
    print $pickleNames[$i].', ';  
}
```


php: associative arrays

arrays: associative

```
<?php
```

```
$pickleOrigins = array(  
    'Gherkin' => 'West Indian',  
    'Polish' => 'Poland',  
    'Hungarian' => 'Hungary',  
    'Swedish' => 'Sweden'  
);
```

↑
keys

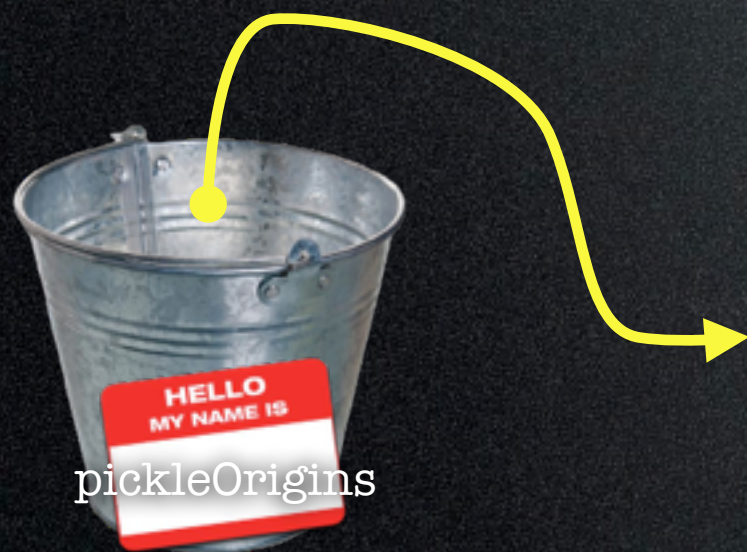
↑
values

php

arrays: associative

```
<?php
```

```
$pickleOrigins = array(  
    'Gherkin' => 'West Indian',  
    'Polish' => 'Poland',  
    'Hungarian' => 'Hungary',  
    'Swedish' => 'Sweden'  
);
```



"Gherkin"	"Polish"	"Hungarian"	"Swedish"
"West Indian" 	"Poland" 	"Hungary" 	"Sweden" 

php

access to associative array

```
<?php
```

```
$pickleOrigins = array(  
    'Gherkin' => 'West Indian',  
    'Polish' => 'Poland',  
    'Hungarian' => 'Hungary',  
    'Swedish' => 'Sweden'  
);  
  
print $pickleOrigins['Hungarian'];
```


php

iteration over associative array

```
<?php
```

```
$pickleOrigins = array(  
    'Gherkin' => 'West Indian',  
    'Polish' => 'Poland',  
    'Hungarian' => 'Hungary',  
    'Swedish' => 'Sweden'  
);
```

becomes key

becomes value



```
foreach ($pickleOrigins as $pickleName => $pickleOrigin) {  
    print $pickleName.' comes from '.$pickleOrigin.'<br>';  
}
```


php exercise

- exercise: write code that prints out pickles and their country of origin
- use an associative array as the data source
- use definition lists (DL, DT, DD) as markup

arrays can nest

- associative array **keys** must be strings or integers
- **value** types can be anything
- including a nested array

php: nested arrays

```
<?php
```

```
$pickleData = array(  
    'Gherkin' => array(  
        'origin' => 'West India',  
        'color' => 'green',  
    ),  
    'Polish' => array(  
        'origin' => 'Poland',  
        'color' => 'green'  
    )  
);
```