

Useful functions

Push

- `push` → add values to an array
- `push @array 5;`
 - adds 5 to end of @array
- `push @foo (4, 3, 2);`
 - adds 4, 3, and 2, to the end of @foo
- `@a = (1, 2, 3); @b = (10, 11, 12);`
- `push @a @b;`
 - @a now → (1, 2, 3, 10, 11, 12)

Pop

- removes last element of array, and returns it
- `@array = (1, 5, 10, 20);`
- `$last = pop @array;`
 - \$last contains value 20
 - @array contains (1, 5, 10)
- `@empty = ();`
- `$value = pop @empty;`
 - \$value gets undef.

shift

- analogous to popping from beginning
- `@array = (1, 5, 10, 20);`
- `$first = shift @array;`
 - `$first` contains value 1
 - `@array` contains (5, 10, 20);
- `@empty = ();`
- `$value = shift @empty;`
 - `$value` gets undef

unshift

- analogous to pushing at beginning
- `unshift @array 5;`
 - adds 5 to front of `@array`
- `unshift @foo (4, 3, 2);`
 - adds 4, 3, and 2, to the front of `@foo`
- `@a = (1, 2, 3); @b = (10, 11, 12);`
- `unshift @a @b;`
 - `@a` now \rightarrow (10, 11, 12, 1, 2, 3)

splice

- all functionality of push, pop, shift, unshift
 - (plus a little bit more)
- Formally:
 - `splice ARRAY, OFFSET, LENGTH, LIST`
- remove `LENGTH` elements from `ARRAY`, starting at `OFFSET`, and replace them with `LIST`.
- In scalar context, return last element removed
- In list context, return elements removed

splice w/o some arguments

- splice ARRAY, OFFSET, LENGTH, LIST
- Omit LIST: remove elements, don't replace
- Omit LENGTH: remove all elements starting at OFFSET
- Omit OFFSET: clear entire ARRAY as it's being read

splice equivalencies

- splice ARRAY, OFFSET, LENGTH, LIST
- push @a (\$x, \$y);
 - splice (@a, @a, 0, \$x, \$y);
- pop @a;
 - splice (@a, \$#a);
 - splice (@a, -1);
- shift @a;
 - splice (@a, 0, 1);
- unshift @a (\$x, \$y);
 - splice (@a, 0, 0, \$x, \$y);
- \$a[\$x] = \$y;
 - splice (@a, \$x, 1, \$y);

keys, values

- keys → get list of all keys from a hash
 - seemingly random order (kind of)
- values → get list of all values from a hash
 - same 'random' order as keys produces
- %months = ('Jan' => 'January', 'Feb' => 'February', 'Mar' => 'March', ...);
- keys (%months) == ('Jan', 'Feb', 'Mar', ...)
- values (%months) == ('January', 'February', 'March', ...)
 - NOT necessarily in that order.
