Three fundamental concepts

(plus a little borrowed magic)

Expressions

- expressions: have a *value* of a specific *type* (alternatively: they belong to a specific *class*)
- name values with the val keyword

Examples

```
val hmt = "Homer Multitext"
val venetusAPageCount = 327
val areGreekManuscriptsAwesome = true
```

Functions

- create (return) a value
- classes (types) can have functions defined for all instances of that class
 - syntax: value.function

Examples

size is a function on Strings.

"Homer Multitext".size

what class of value does it return?

Parameters

Functions can take parameters (arguments) in parentheses

Example

replaceAll is a function on strings that takes two parameters.
"The HMT project".replaceAll("HMT", "Homer Multitext")

Code libraries

Bring other packages into your script with import keyword

Example

import edu.holycross.shot.cite._
(Note the _ wildcard to import all classes in this package.)
This doesn't do anything directly, but makes the imported classes available to your script.

A class for CTS URNs

```
val iliad = CtsUrn("urn:cts:greekLit:tlg0012.tlg001:")
val iliad20 = CtsUrn("urn:cts:greekLit:tlg0012.tlg001:20")
```

- What type are they?
- Find out some functions on them with tab completion

First URN magic

Try this:

iliad ~~ iliad20

Proceed to Scala collections