First Programming Language in CS Education – The Arguments for Scala



Sign in to Google...

Writable

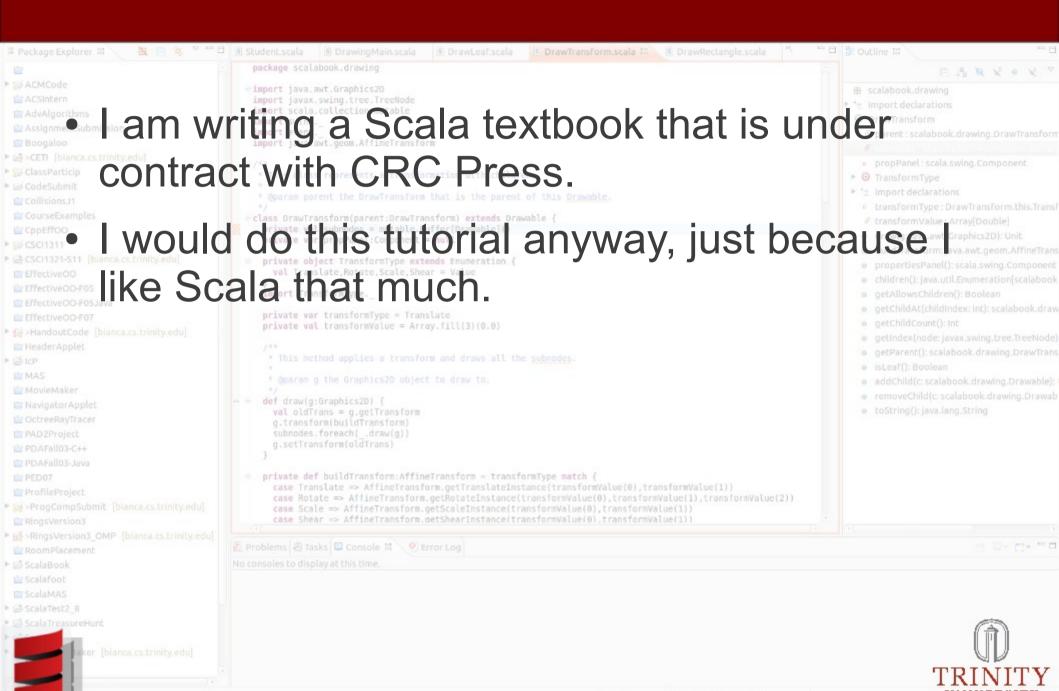
Smart Insert

16:52

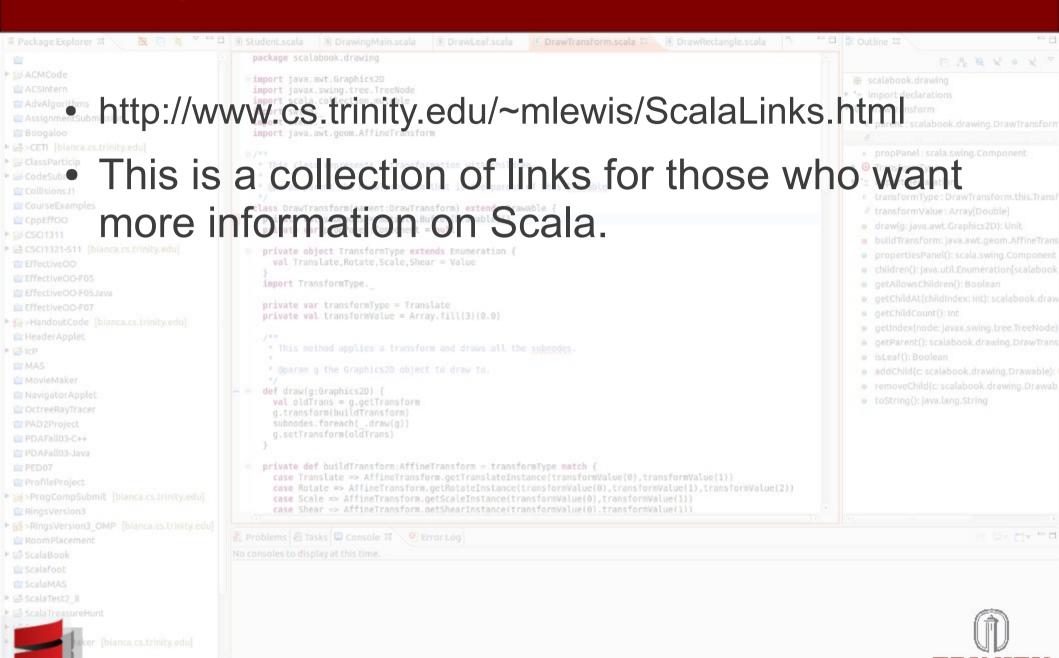
UNIVERSITY

TT*

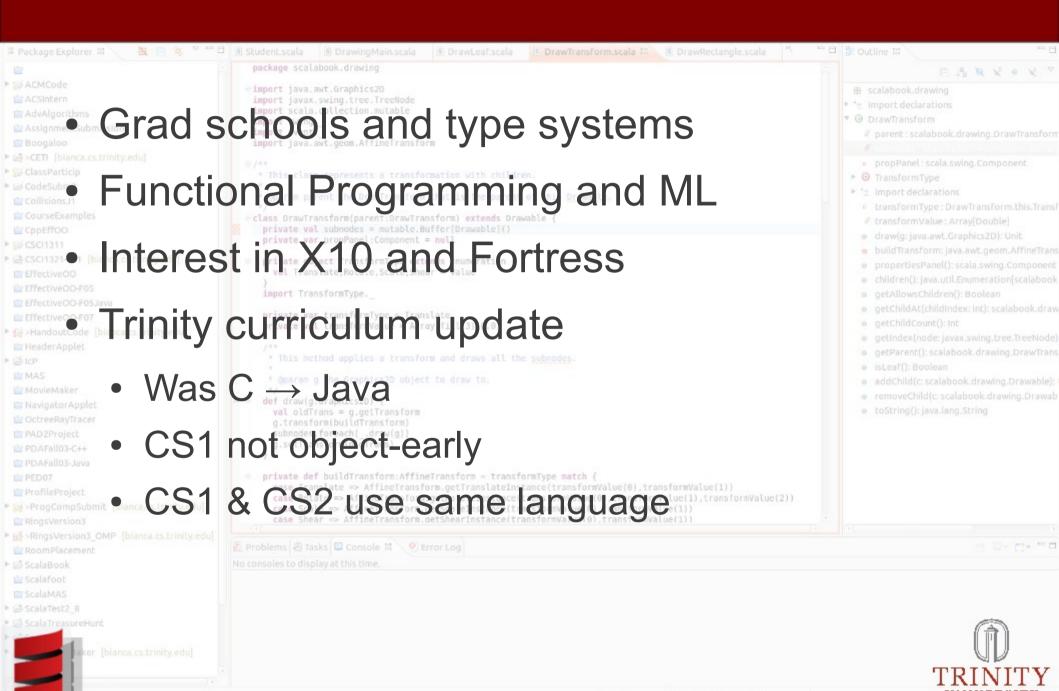
Disclaimer



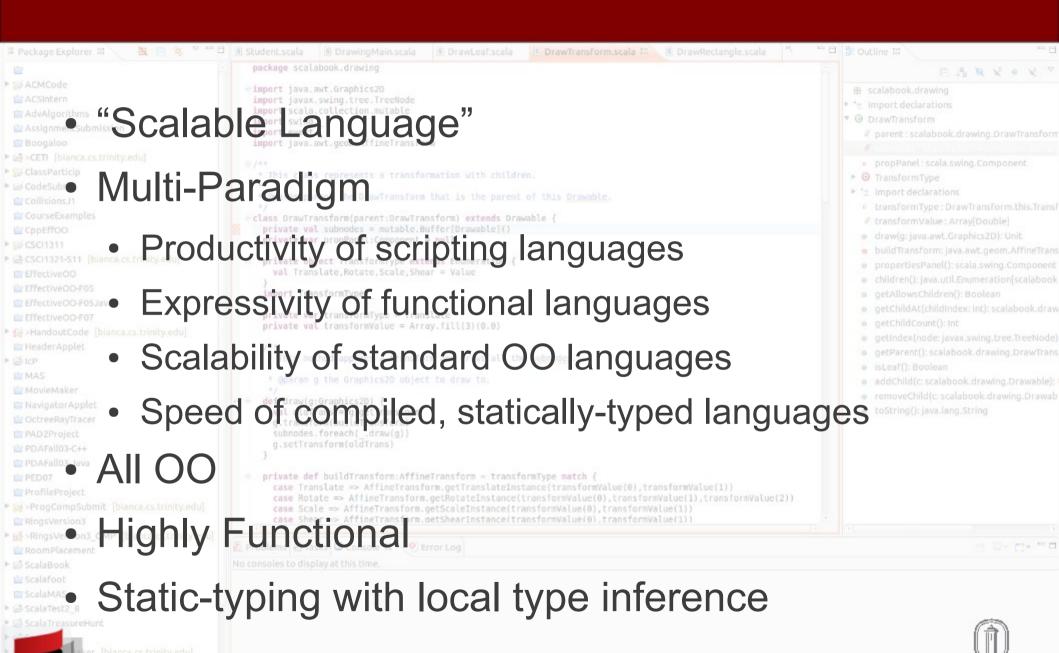
Compiled Links



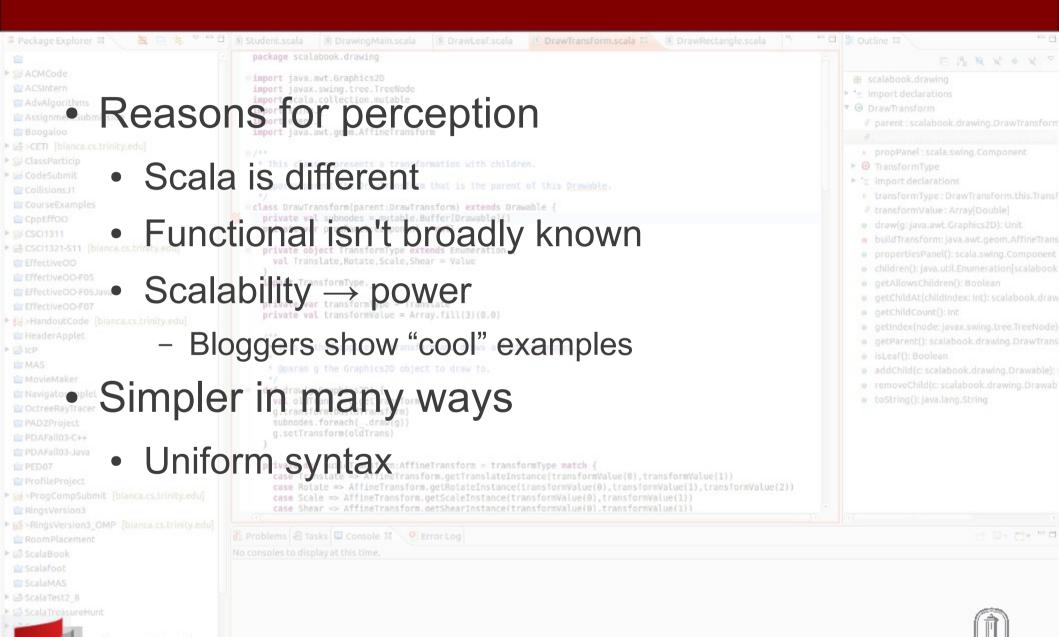
Scala and Me



Basics of Scala



Too Complex?

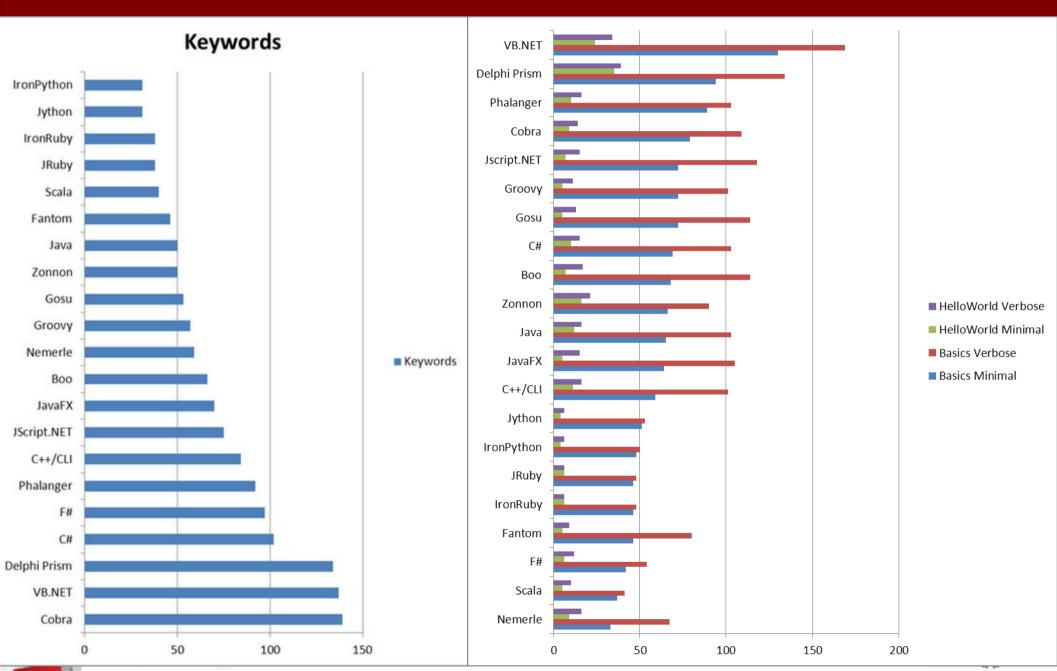


Shorter Language Specification

pec Length pages) 52 325 53	Dynamic Typed Language Common LISP Ruby PHP	Spec Length (pages) 1153 341	awing.DrawTransf org.Component /Transform.this.Tr vy[Double] ohics2D): Unit awt.geom.AffineT ala.swing.Compon umeration[scalab Boolean :: Int): scalabook.com
325	Ruby	341	awt.geom.Affine ala.swing.Compo umeration[scala Boolean :: int): scalabook
			Boolean :: Int): scalabook
53	DHD		swine Iraa Traa
	FHE	244	ik.drawing.Drav
84	JavaScript	252	drawing.Draw ook.drawing.D
97	Python 3.1	119	
91	Scheme	50	
50			
o display at this time.			
E.	50	50	50



Fewer Keywords

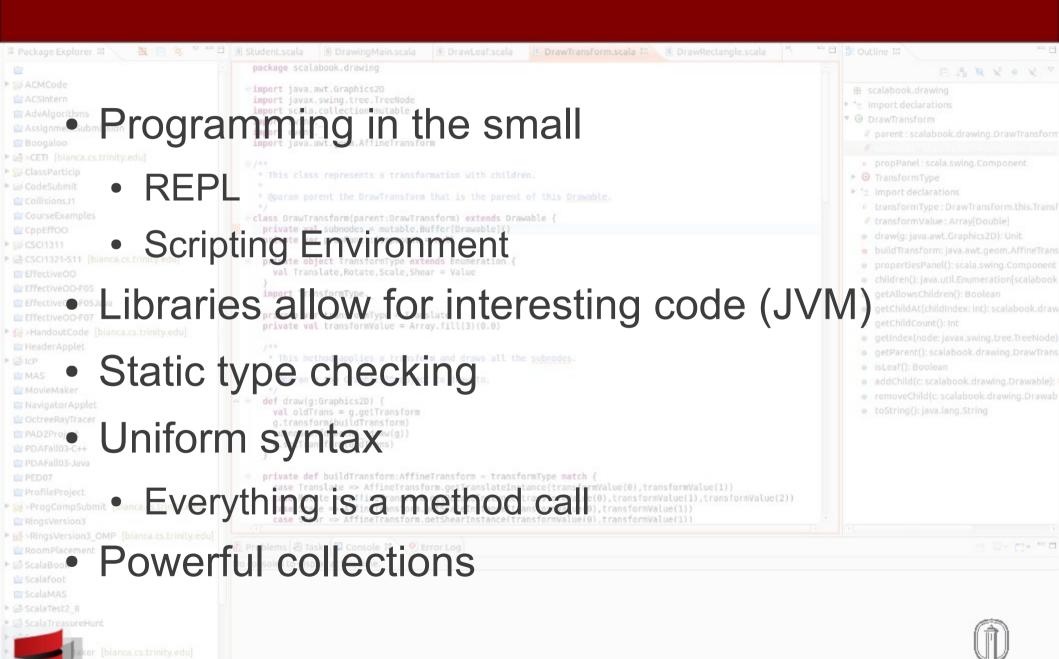


http://carlosqt.blogspot.com/2011/01/how-many-keywords-in-your-source-code http://

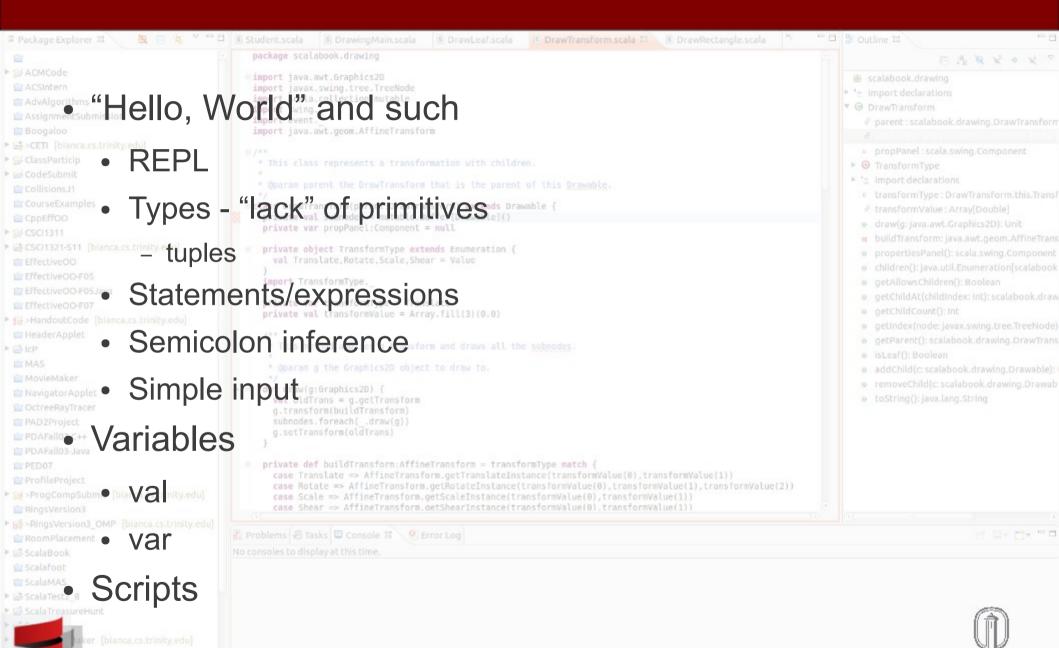
Jobs



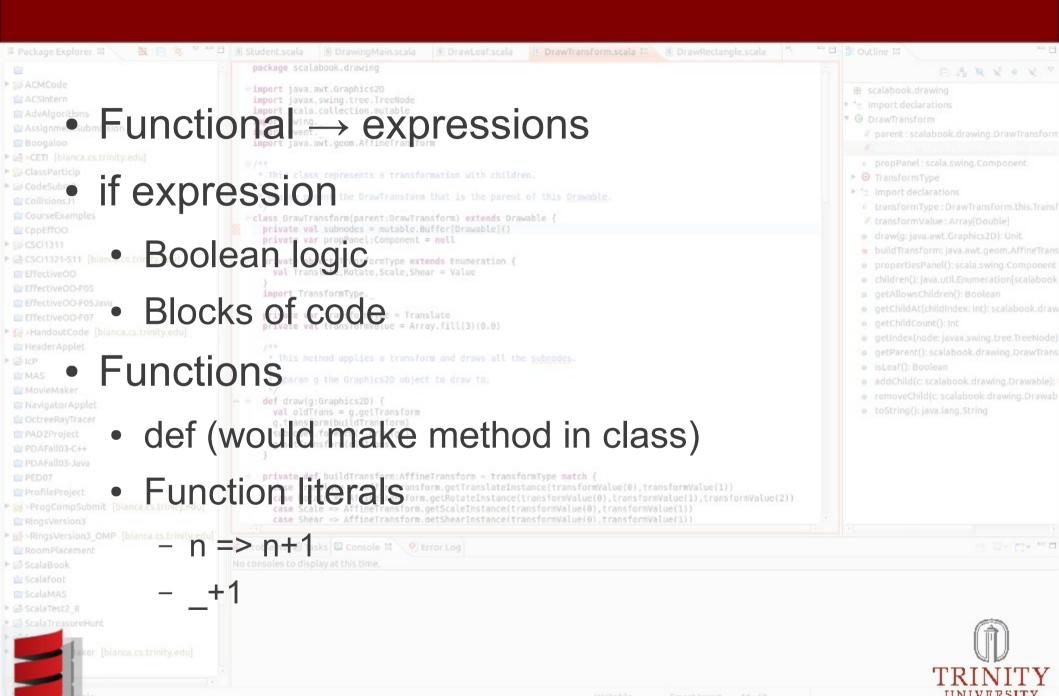
Benefits in CS 1



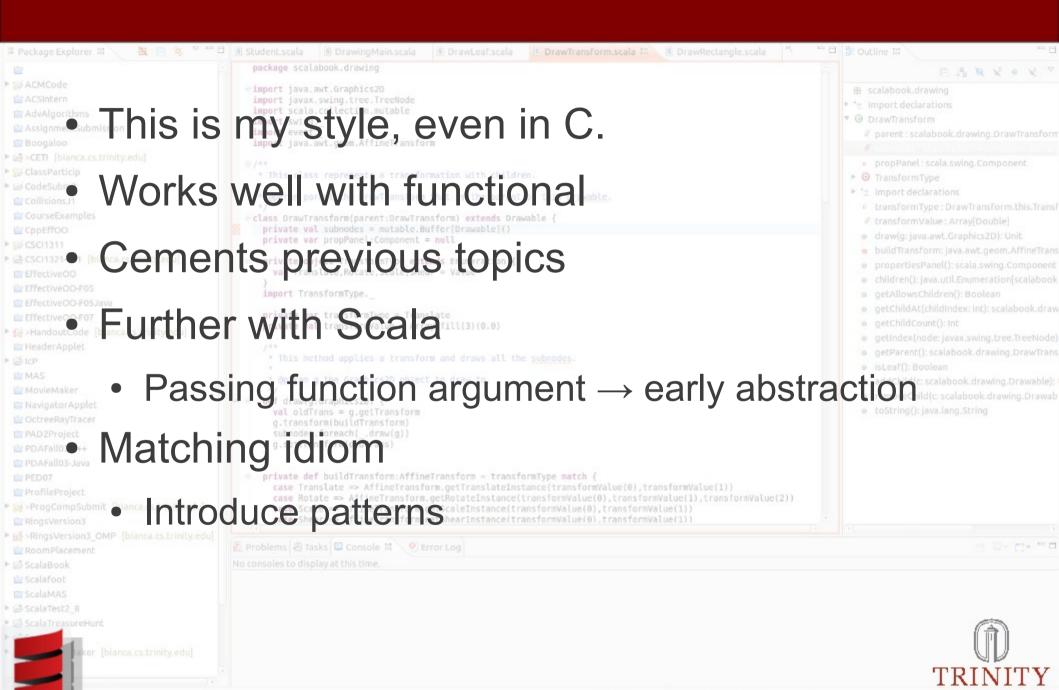
Starting Off



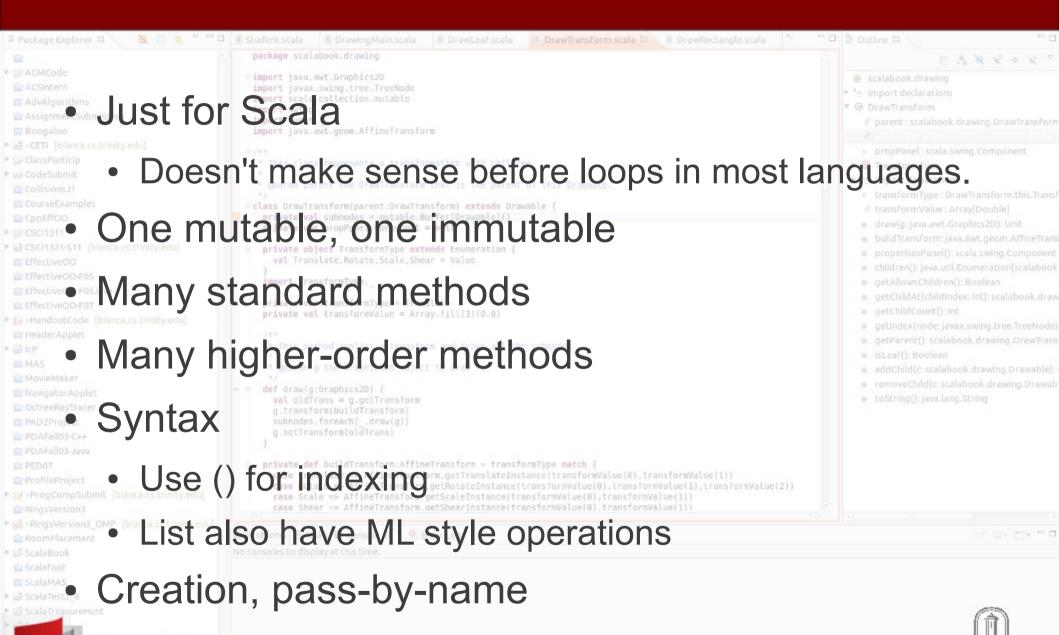
Conditions and Functions



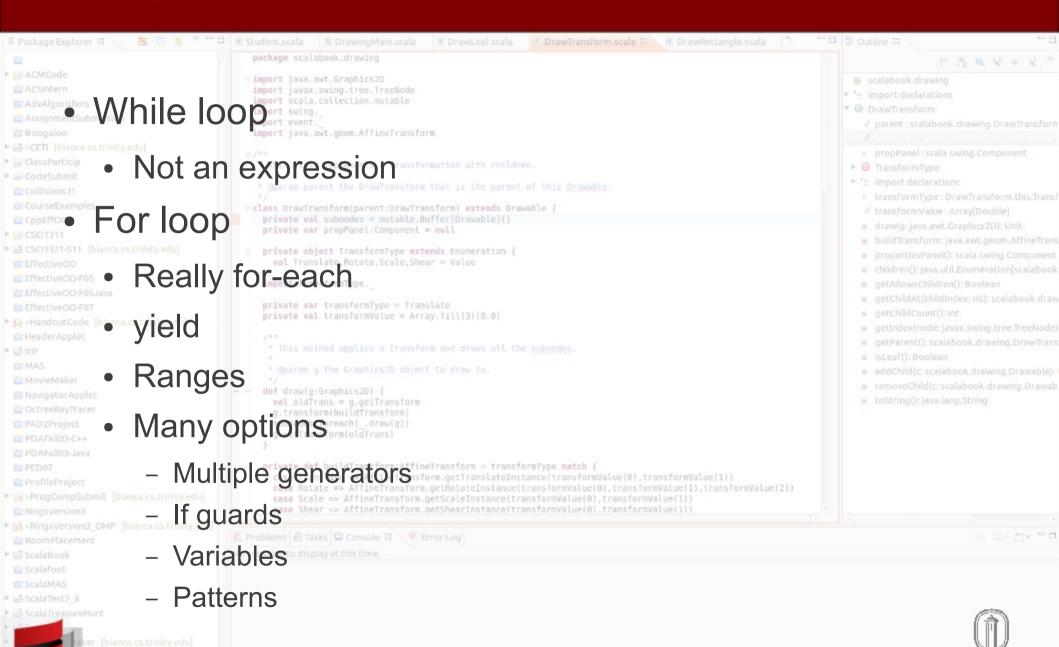
Recursion for Iteration



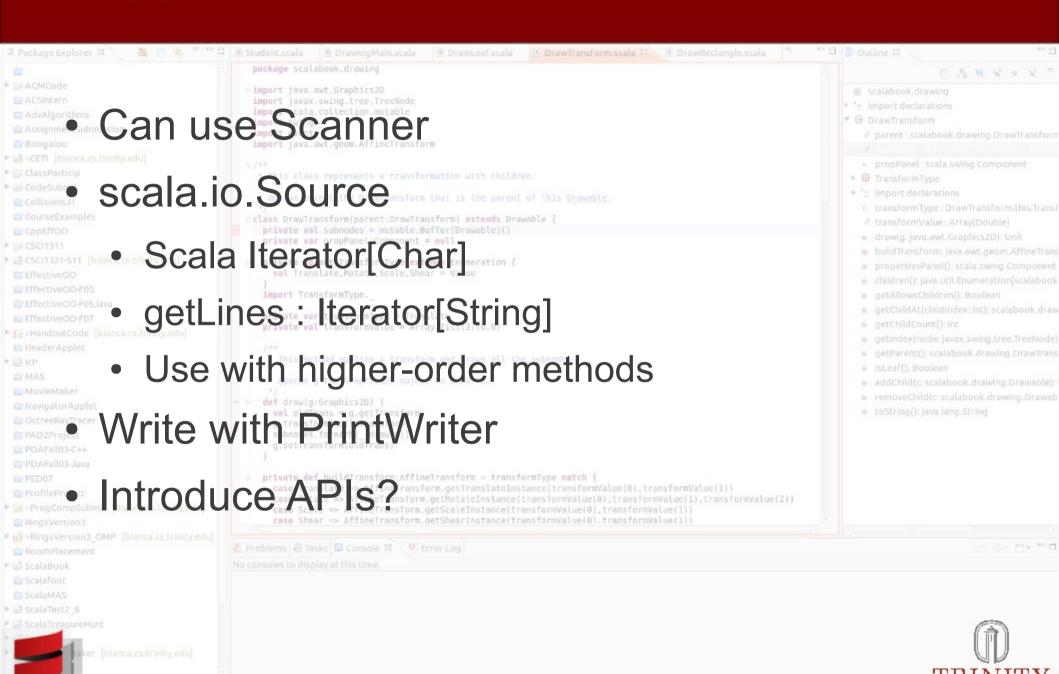
Collections (Array/List)



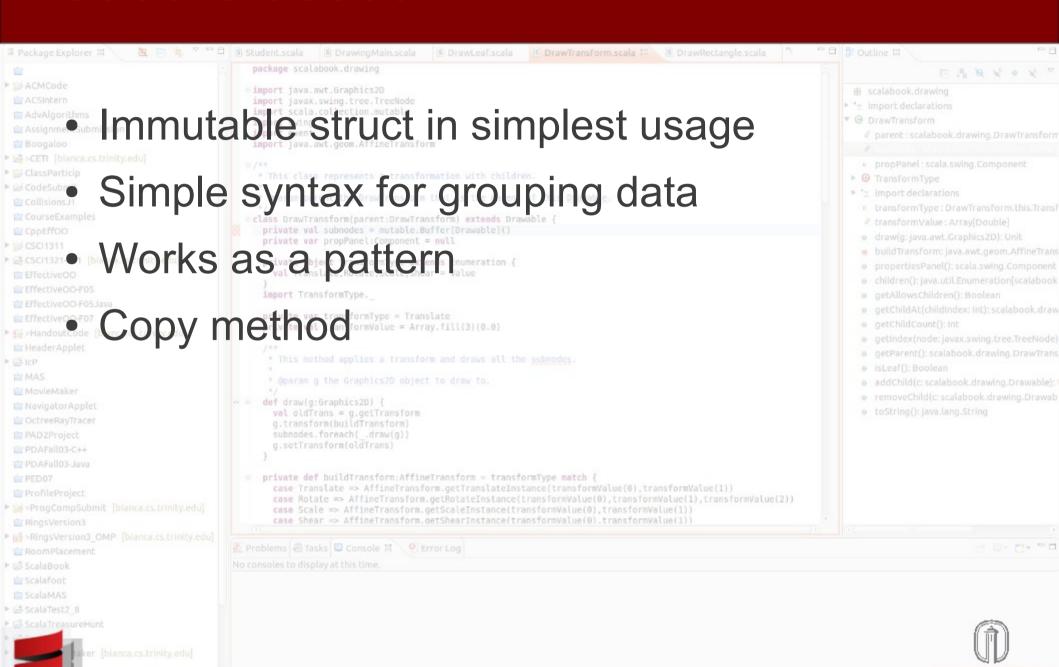
Loops



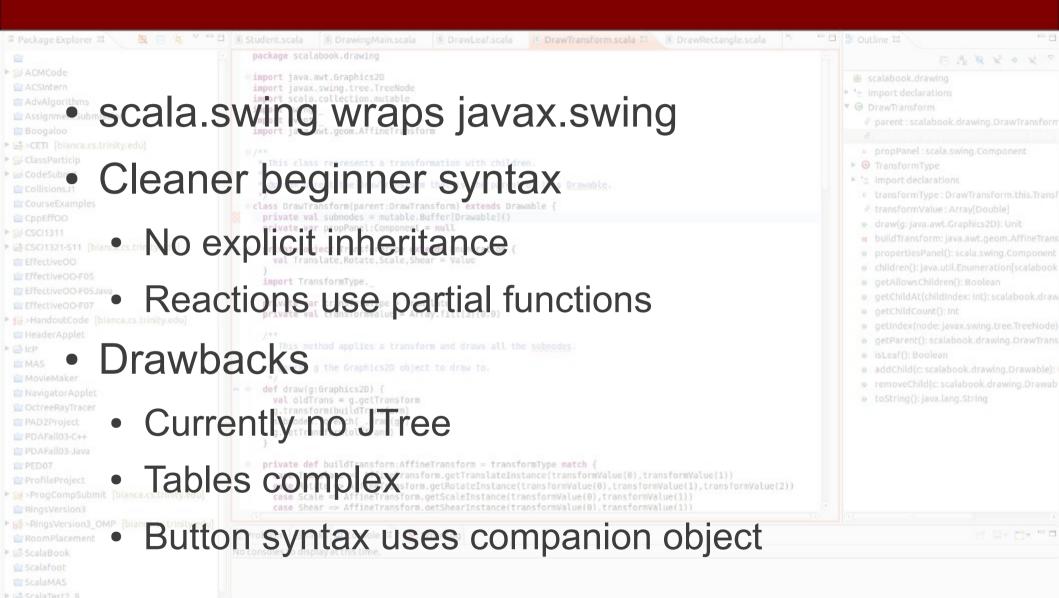
Files



Case Classes

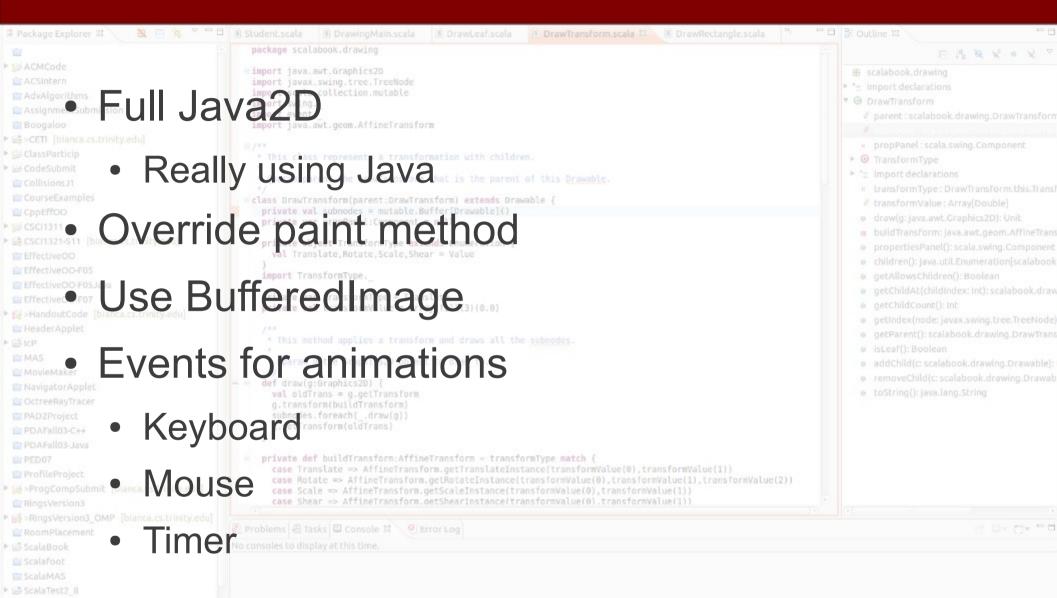


GUIs



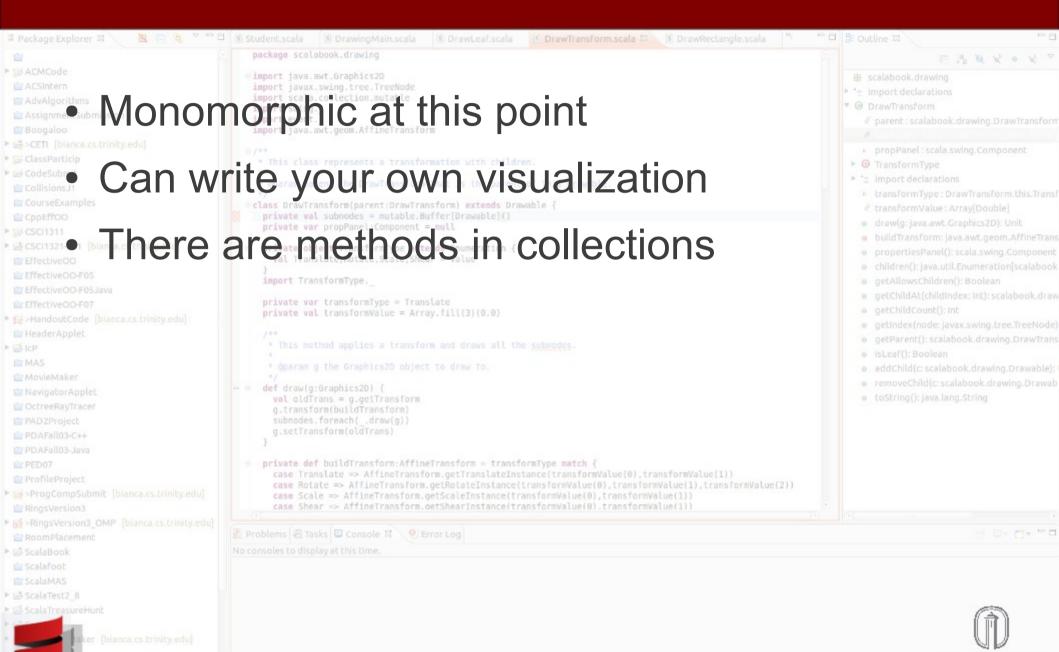


Graphics

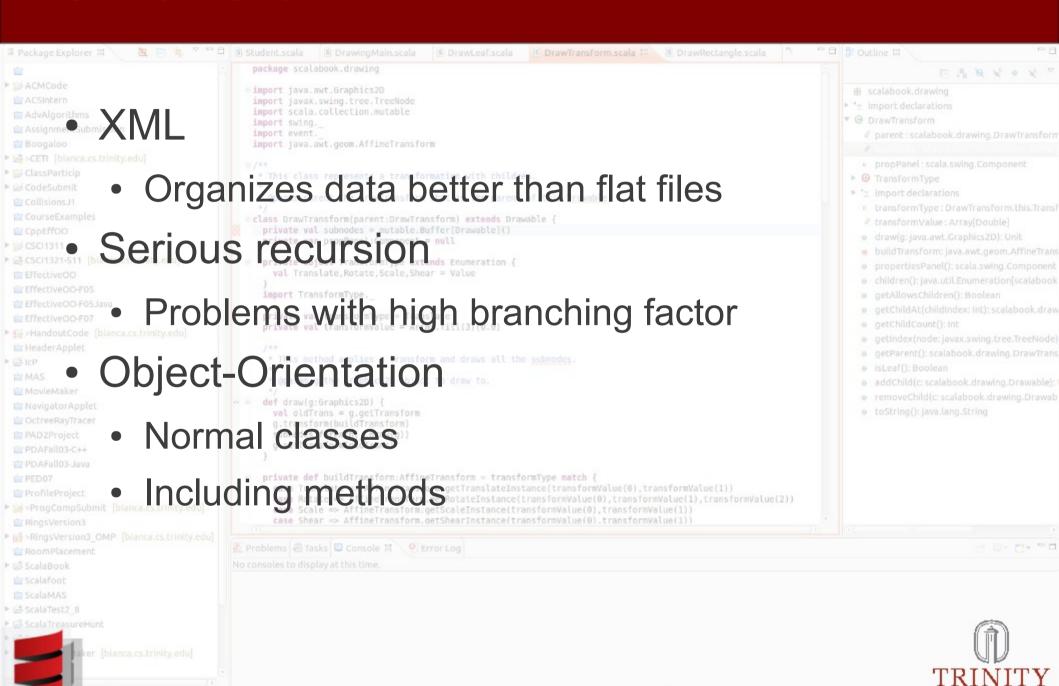




Sorting & Searching

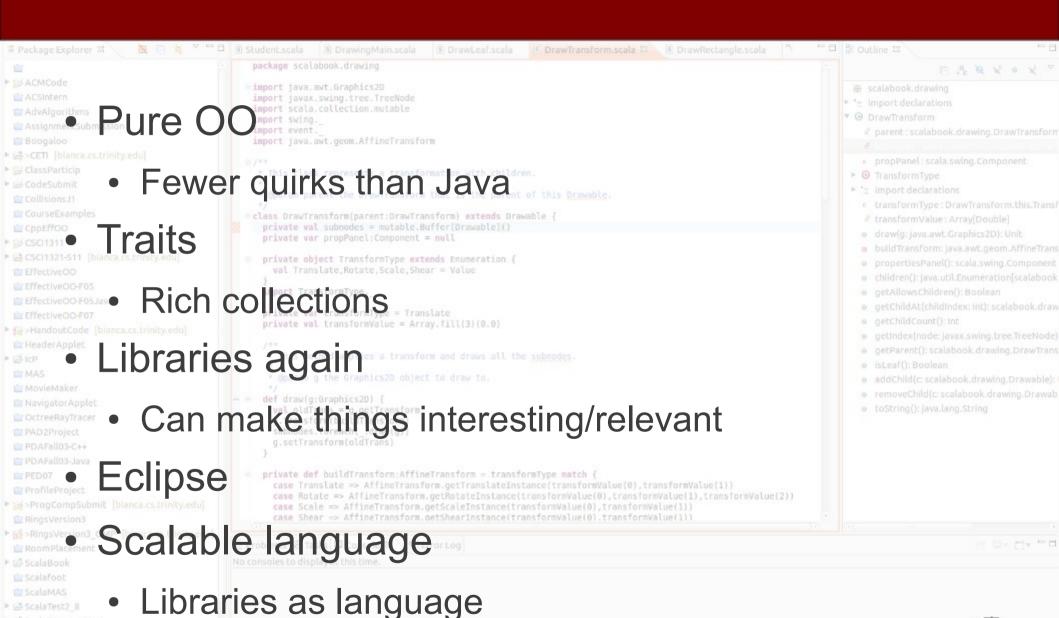


Other Stuff



Benefits in CS 2

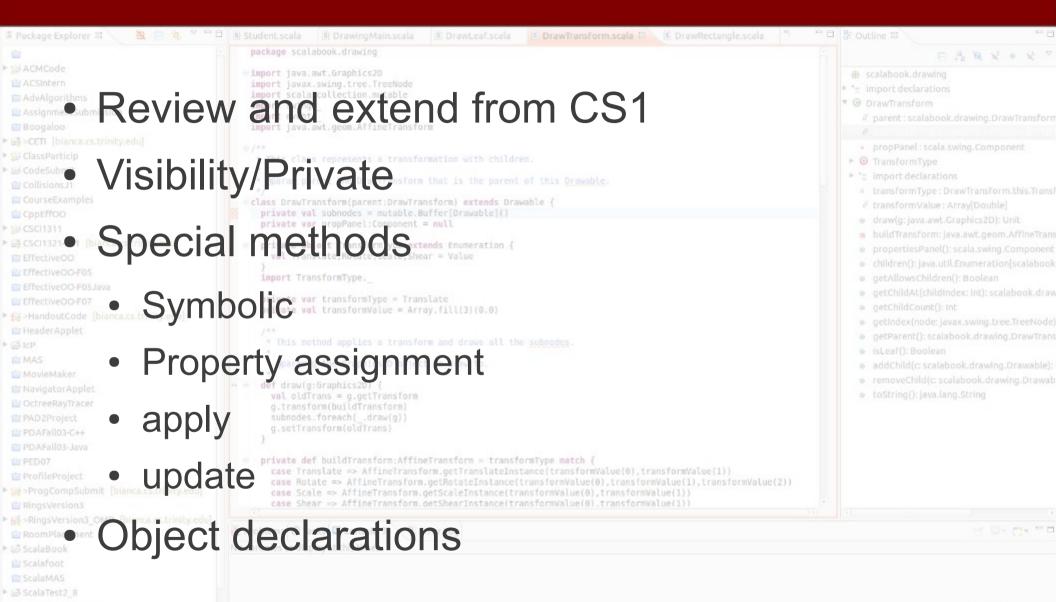
ker [bianca.cs.trinity.edu]



CRINITY

OO for Larger Programs

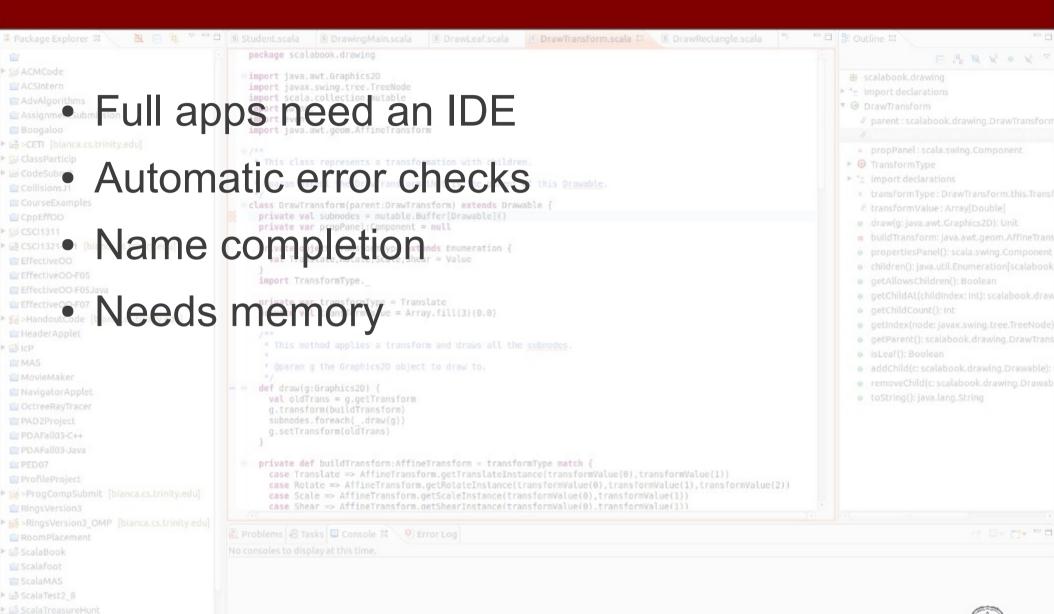
ker [bianca.cs.trinity.edu]





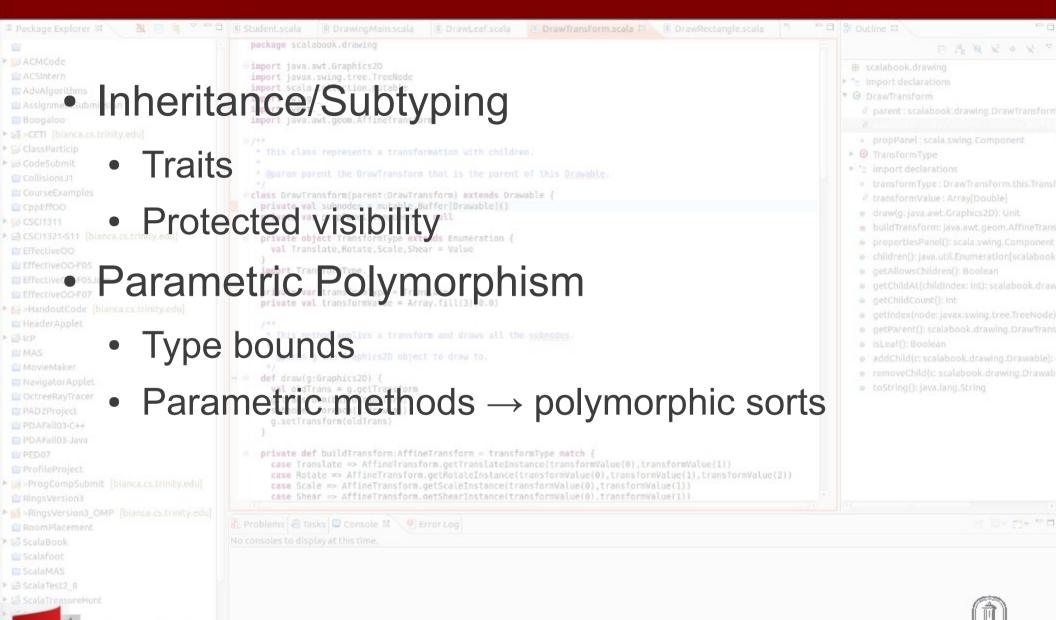
Eclipse

ker [bianca.cs.trinity.edu]





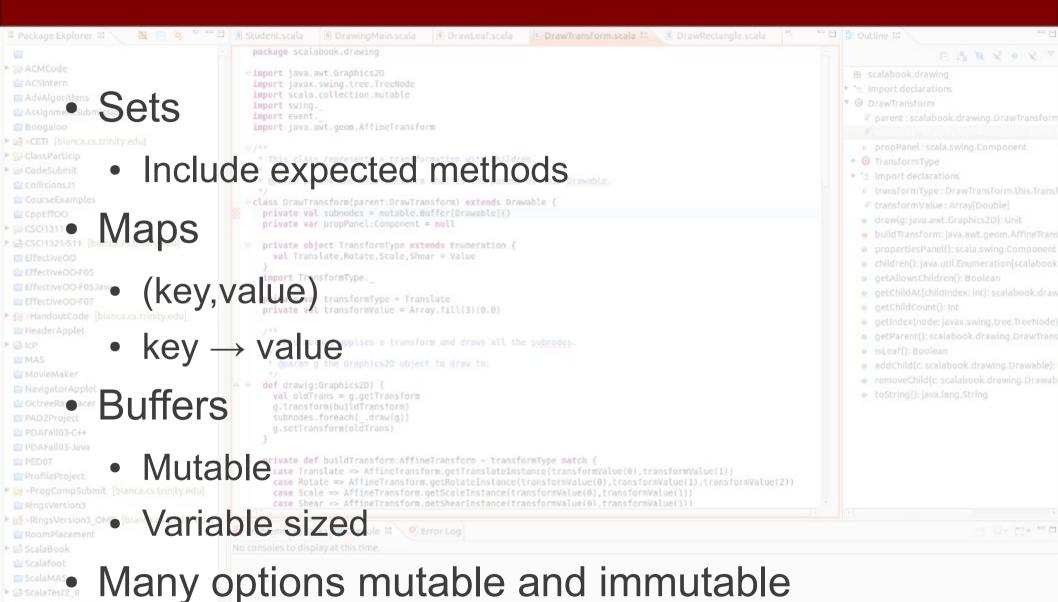
Polymorphism



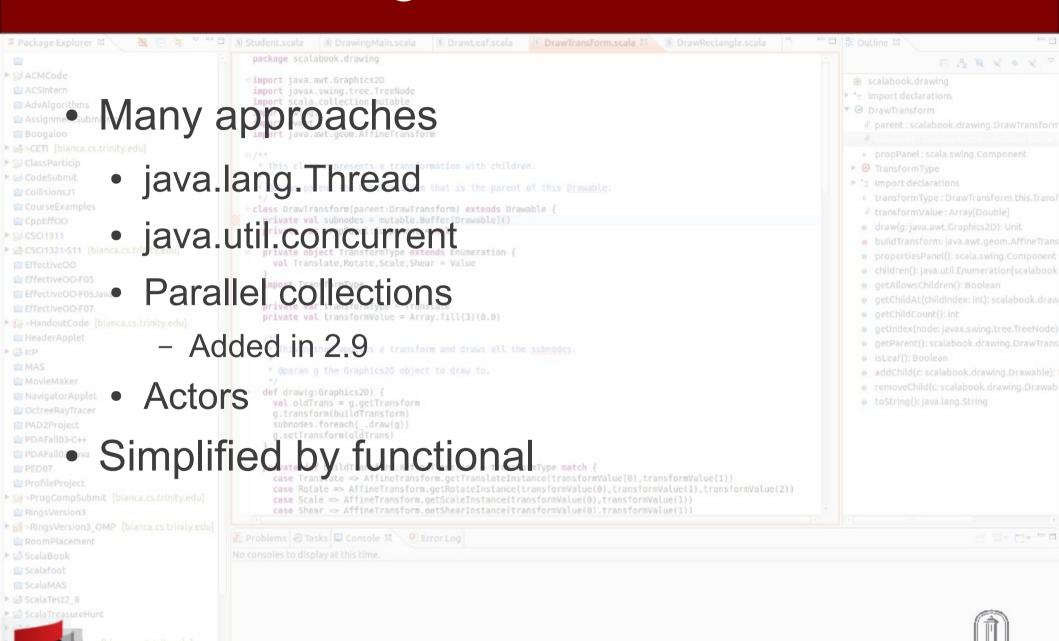


Other Collections

ker [bianca.cs.trinity.edu]



Multithreading

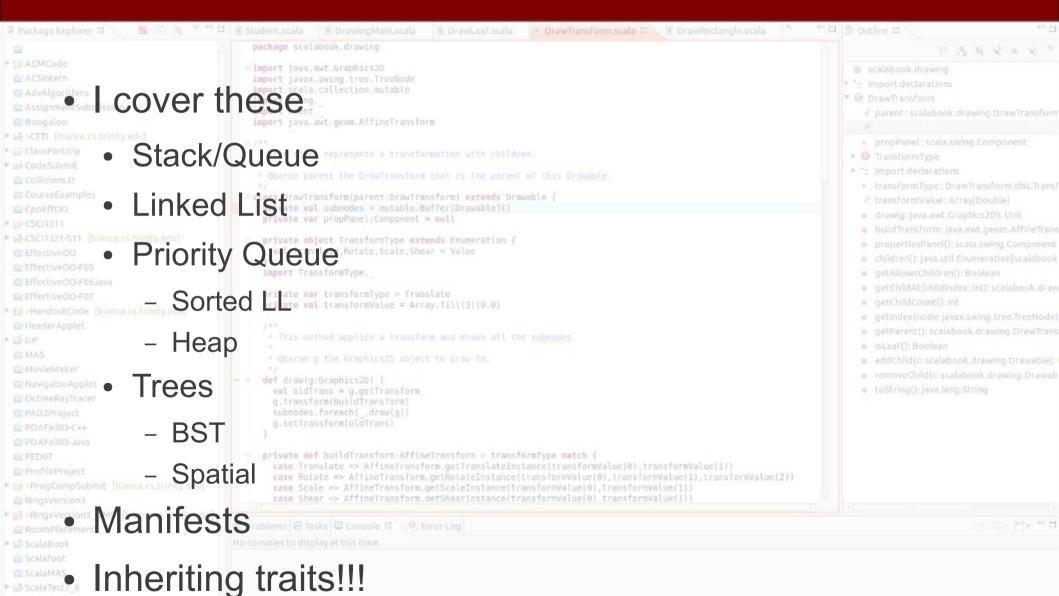


Networking



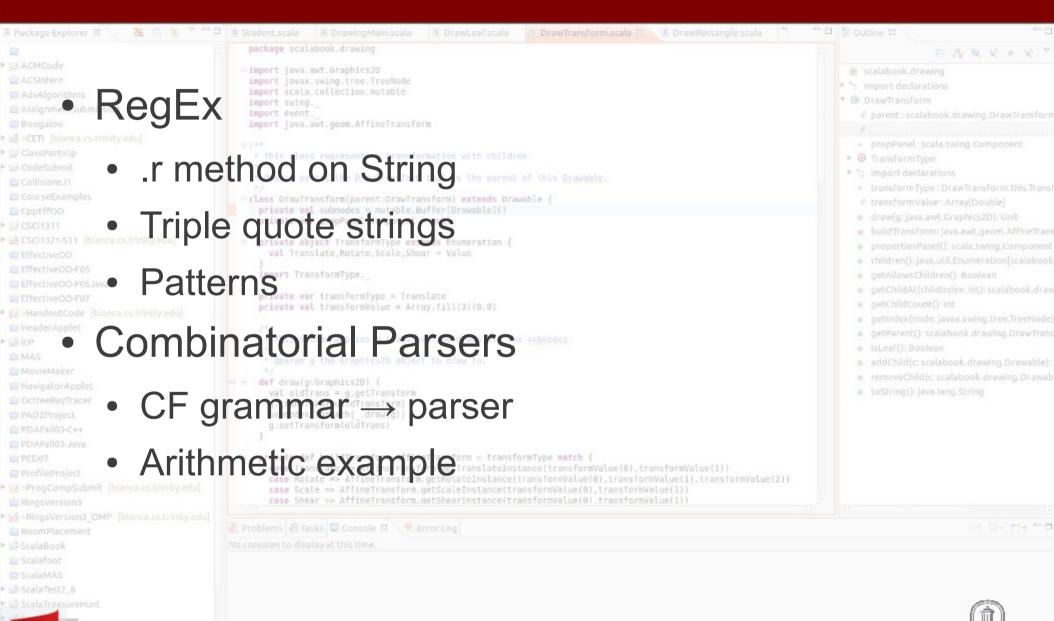
ADTs

ker [bianca.cs.trinity.edu]



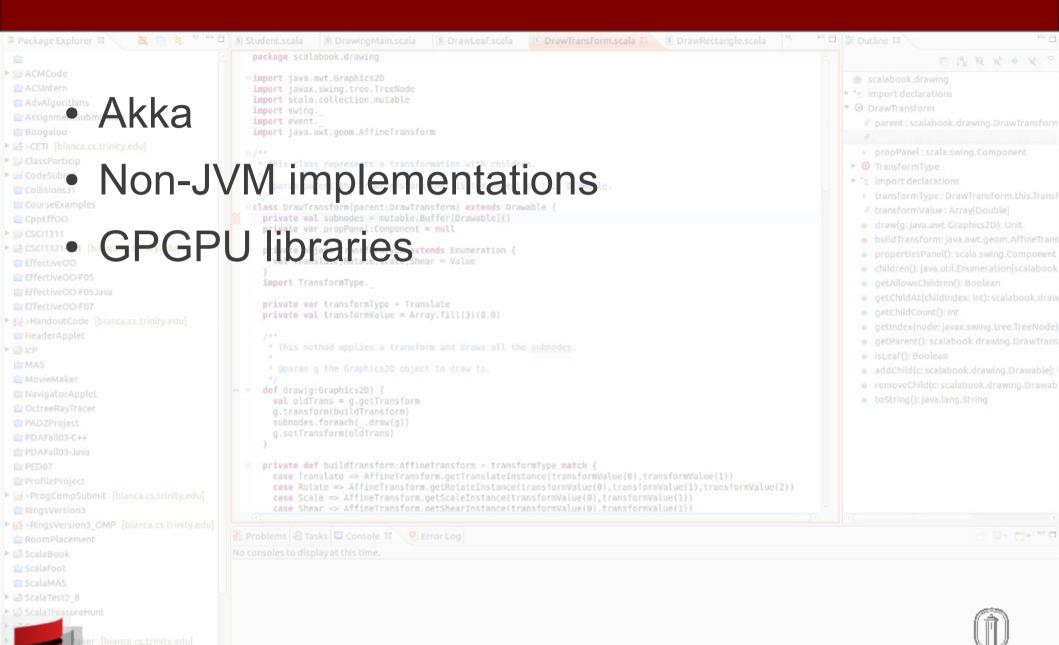
TRINITY

Grammars





Beyond CS 1&2



Conclusions

