



nand	What it does	THIS IS GIT. IT TRACKS COLLABORATIVE WORK
e	Clones a repository – sets up your repository so that you can coordinate	ON PROJECTS THROUGH A BEAUTIFUL DISTRIBUTED GRAPH THEORY TREE MODEL. COOL. HOU DO WE USE IT? NO IDEA. JUST MEMORIZE THESE SHELL
<file></file>	Adds the <i>file</i> to the staging area	COMMANDS AND TYPE THEM TO SYNC UP
mmit	Commits all the staged files (locally)	ELSEWHERE, DELETE THE PROJECT,
sh	Push all your changes to the remote \rightarrow You need your code to be pushed so that I can see it.	
anch	List all local branches	
nch < <i>name</i> >	Creates a new branch named name	
eckout < <i>name</i> >	Switches to the branch named name	











LET'S PROGRAM!		
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Java: Files and Class Definitions

public class Hello {
 public static void main(String[] args) {
 System.out.println("Hello!");
 }
 Defines the class Hello
 Lello.java

• Name of the file must match the name of the class
 E.g., Hello.java
• In general, each Java program file contains one class definition





























Translatio	on to Python Program	
print("He	llo")	
	Literal translation:	
	class Hello: """Our first Python class"""	
	<pre>@staticmethod def main(self): print("Hello")</pre>	
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JAVA FUNDA	MENTALS	20









Data Types						
● Java > E ● All c	 Java is <i>strongly-typed</i> Every variable must have a <i>declared</i> type All data in Java is an <i>object</i> – except for the <i>primitive data types</i>: 					
	int	4 bytes (-2,147,483,648 -> 2,147,483,647)				
	short	2 bytes (-32,768 -> 32,767)				
	long	8 bytes (really big integers)				
	byte	1 byte (-128 -> 127)				
	float	4 bytes (floating point)				
	double	8 bytes (floating point)				
	char	2 bytes (Unicode representation), single quotes				
	boolean	true or false				
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