

R-Type	Addition	addi $rd \leftarrow rs + rt$
	Subtraction	sub $rd \leftarrow rs - rt$
	Shift left with amount - ra	sll $rd \leftarrow rt \ll ra$
	Shift right with amount - ra	srl $rd \leftarrow rt \gg ra$
	AND	and $rd \leftarrow rs \& rt$
	OR	or $rd \leftarrow rs rt$
	XOR	xor $rd \leftarrow rs \wedge rt$
	Add Immediate NOR	nor $rd \leftarrow rs \text{ NOR } rt$
	Add Immediate	addi' $rt \leftarrow rs + S(imm)$
	Load Word	$rt \leftarrow M(rs) + S_Ext(imm)$
I-Type	Store Word	$M(rs) + S_Ext(imm) \leftarrow rt$
	Branch on Equal	beq
	Branch on not Equal	bne
	Branch on Greater Than or = Zero	bge'2
	Branch on Less than Zero	blt'2
		Lecture 3
J-Type	Jump	$PC \leftarrow PC[31:28] target_address 0$

R TYPE	opcode	rs	rt	rd	ra	function	
	000	000	001	010	0	000	add
	000	000	001	010	0	001	sub
	000				1	010	sll
	000				1	011	srl
	000				0	100	and
	000				0	101	or
	000				0	110	xor
	000				0	111	nor

I TYPE	opcode	rs	rt	address/immediate		
	001	000	001			addi
	000					slw
	001					sw
	000					bne
	001					bgez
	000					lwr
	001					lwr

J-Type	opcode	target address				
	111	000	000	000	000	jump