

31	25	24	20	19	15	14	12	11	7	6	0	
funct7		rs2		rs1		funct3		rd		opcode		R-type
imm[11:0]				rs1		funct3		rd		opcode		I-type
imm[11:5]		rs2		rs1		funct3		imm[4:0]		opcode		S-type
imm[12   10:5]		rs2		rs1		funct3		imm[4:1   11]		opcode		B-type
imm[31:12]								rd		opcode		U-type
imm[20   10:1   11   19:12]								rd		opcode		J-type