

# CI2 Défi-Robot Programmation du Robot

## Présentation des commandes *TRADUCTION ANGLAIS / FRANCAIS*

Commandes Général		Commandes Variables		Commandes Procédures	
<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Commandes</p> <p style="text-align: center; margin: 0;">Général</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #4CAF50; color: white; padding: 5px 10px; border-radius: 10px;">Début</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #F44336; color: white; padding: 5px 10px; border-radius: 10px;">Fin</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Sorties</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Activer</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Désactiver</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Moteurs</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Attendre</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Décision</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Analogue</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #FFF9C4; color: black; padding: 5px 10px; border-radius: 10px;">Comment</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Code en BASIC</span> </div> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Command List</p> <p style="text-align: center; margin: 0;">Common</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #4CAF50; color: white; padding: 5px 10px; border-radius: 10px;">Start</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #F44336; color: white; padding: 5px 10px; border-radius: 10px;">Stop</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Outputs</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">High</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Low</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Motor</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Wait</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Decision</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Analogue</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #FFF9C4; color: black; padding: 5px 10px; border-radius: 10px;">Comment</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">BASIC</span> </div> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Commandes</p> <p style="text-align: center; margin: 0;">Général</p> <p style="text-align: center; margin: 0;">Variables</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Comparer</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Expression</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Incrément</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Décrément</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Aléatoire</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Entrées</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Sortie</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Lancer Timer</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Arrêter Timer</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Lire EEPROM</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Ecrire EEPROM</span> </div> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Command List</p> <p style="text-align: center; margin: 0;">Common</p> <p style="text-align: center; margin: 0;">Variables</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Compare</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Expression</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Inc</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Dec</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Random</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">In</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Out</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Time On</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Time Off</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Read</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Write</span> </div> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Commandes</p> <p style="text-align: center; margin: 0;">Général</p> <p style="text-align: center; margin: 0;">Variables</p> <p style="text-align: center; margin: 0;">Procédures</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Procédure</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Aller à Procédure</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Appeler Procédure</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Retour</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Interrupt</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Config Interrupt</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Répéter</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Boucler</span> </div> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: center; margin: 0;">Command List</p> <p style="text-align: center; margin: 0;">Common</p> <p style="text-align: center; margin: 0;">Variables</p> <p style="text-align: center; margin: 0;">Procedures</p> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Procedure</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Goto</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Gosub</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Return</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Interrupt</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Interrupt Setup</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Repeat</span> </div> <div style="text-align: center; margin: 5px 0;"> <span style="background-color: #2196F3; color: white; padding: 5px 10px; border-radius: 5px;">Loop</span> </div> </div>

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Sorties son		E/S Séries		Autre E / S	
<div style="border: 1px solid gray; padding: 5px;"> <p>Commandes</p> <p>Général</p> <p>Variables</p> <p>Procédures</p> <p>Sorties son</p> <p><b>Son</b></p> <p><b>Lire l'air</b></p> <p><b>Lire air utilisateur</b></p> <p><b>Lire MP3</b></p> <p><b>Lire iPod</b></p> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p>Command List</p> <p>Common</p> <p>Variables</p> <p>Procedures</p> <p>Sound Output</p> <p><b>Sound</b></p> <p><b>Play Tune</b></p> <p><b>Play User Tune</b></p> <p><b>Play MP3</b></p> <p><b>Play iPod</b></p> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p>Commandes</p> <p>Général</p> <p>Variables</p> <p>Procédures</p> <p>Sorties son</p> <p>E/S séries</p> <p><b>Lire</b></p> <p><b>Entrée série</b></p> <p><b>Envoyer</b></p> <p><b>Sortie série</b></p> <p><b>Débug</b></p> <p><b>LCD</b></p> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p>Command List</p> <p>Common</p> <p>Variables</p> <p>Procedures</p> <p>Sound Output</p> <p>Serial In/Out</p> <p><b>SerIn</b></p> <p><b>SerRxd</b></p> <p><b>SerOut</b></p> <p><b>SerTxd</b></p> <p><b>Debug</b></p> <p><b>LCD</b></p> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p>Commandes</p> <p>Général</p> <p>Variables</p> <p>Procédures</p> <p>Sorties son</p> <p>E/S séries</p> <p>Autres E/S</p> <p><b>Tactile</b></p> <p><b>Mesurer impulsion</b></p> <p><b>Générer impulsion</b></p> <p><b>Basculer</b></p> <p><b>Servo</b></p> <p><b>Moteur Servo</b></p> <p><b>Compter</b></p> <p><b>Entrée Infrarouge</b></p> <p><b>Sortie Infrarouge</b></p> <p><b>Lire temp</b></p> <p><b>C.A.N.</b></p> <p><b>Ultrason</b></p> <p><b>M.L.I.</b></p> <p><b>Sortie MLI</b></p> </div>	<div style="border: 1px solid gray; padding: 5px;"> <p>Command List</p> <p>Common</p> <p>Variables</p> <p>Procedures</p> <p>Sound Output</p> <p>Serial In/Out</p> <p>Other In/Out</p> <p><b>Touch</b></p> <p><b>PulseIn</b></p> <p><b>PulseOut</b></p> <p><b>Toggle</b></p> <p><b>Servo</b></p> <p><b>Servo Motor</b></p> <p><b>Count</b></p> <p><b>InfraIn</b></p> <p><b>InfraOut</b></p> <p><b>ReadTemp</b></p> <p><b>ReadADC</b></p> <p><b>Ultra</b></p> <p><b>PWM</b></p> <p><b>PWMout</b></p> </div>

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