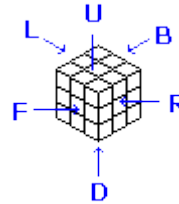


# Rubiks cube

## Løsningsguide

### Indledning

	MED uret	MOD uret
Forside (Front)	<b>F</b>	<b>F'</b>
Bagside (Back)	<b>B</b>	<b>B'</b>
Venstre (Left)	<b>L</b>	<b>L'</b>
Højre (Right)	<b>R</b>	<b>R'</b>
Øverst (Upper)	<b>U</b>	<b>U'</b>
Bunden (Down)	<b>D</b>	<b>D'</b>



### First Two Layers (F2L)

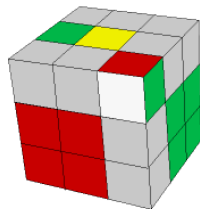


Start med at samle et kryds i bunden

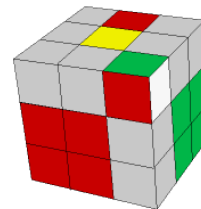


Herefter samles de 2 nederste lag

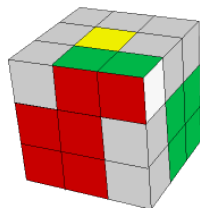
### Grundalgoritmer



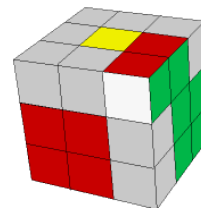
**F' U' F**



**R U R'**

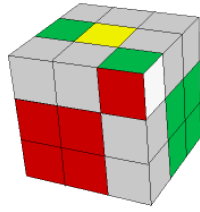


**U' F' U F**

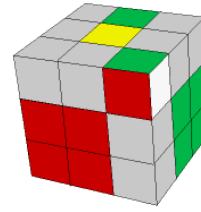


**U R U' R'**

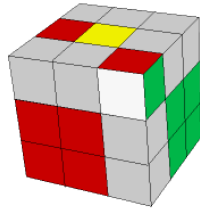
Specielle – Afsluttes med en grundalgoritme



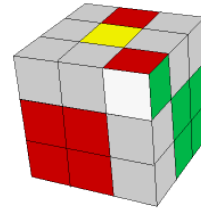
$U F' U' F U^2 - F' U F$



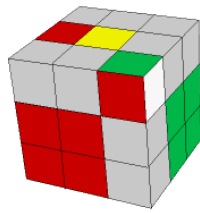
$U F' U^2 F U^2 - F' U F$



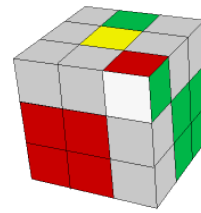
$U' R U^2 R' U^2 - R U' R'$



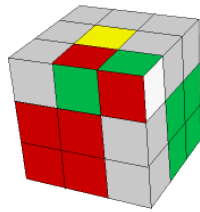
$U' R U R' U^2 - R U' R'$



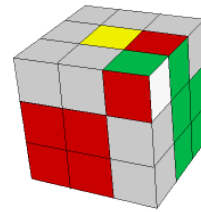
$U' R U R' U - R U R'$



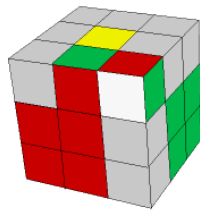
$U' R U' R' U - F' U' F$



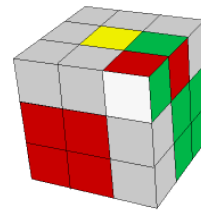
$U F' U^2 F U' - R U R'$



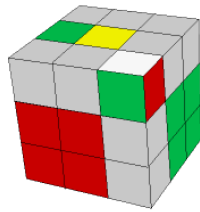
$U' R U' R' U - R U R'$



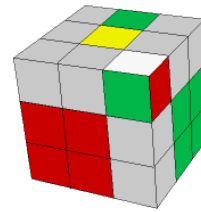
$U F' U F U' - F' U' F$



$U' R U^2 R' U - F' U' F$

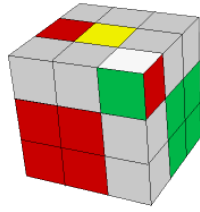


$U' F' U^2 F U' - F' U F$

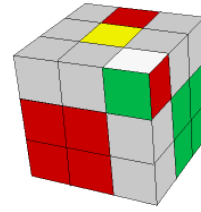


$F' U F U^2 - F' U' F$

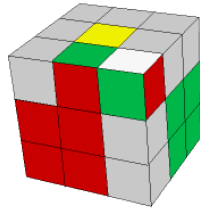
### Specielle – Afsluttes med en grundalgoritme



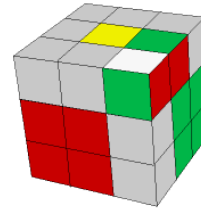
**U2 R U R' U – R U' R'**



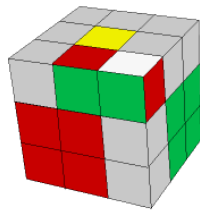
**U R U2 R' U – R U' R'**



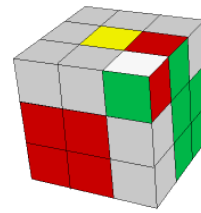
**F' U2 F U – F' U' F**



**U2 F2 U2 F U – F' U F2**



**U2 R2 U2 R' U' – R U' R2**

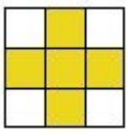
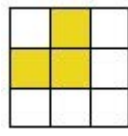
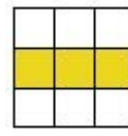
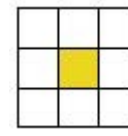


**R U2 R' U' – R U R'**

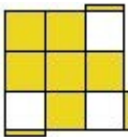
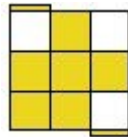
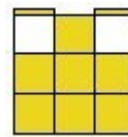
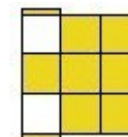
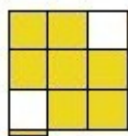
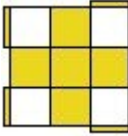
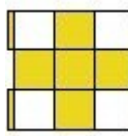
## 4 Look Last Layer (4LLL)

### Orient Last Layer (OLL) – Lav gul top

Siderne vendes gul op

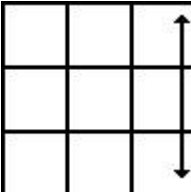
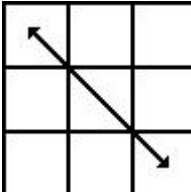
			
Heldig ;-)	$F (U R U' R') F'$	$F (R U R' U') F'$	$F U^2 R' F' U' F U R^2 U^2 R' F'$

Hjørnerne vendes med gul op

			
$R' U' R U'$ $R' U^2 R$	$R U R' U$ $R U^2 R'$	$R' U^2 R$ $F (U' R' U' R U) F'$	$r (U R' U') r' (F R F')$
			Lille bogstav betyder begge lag set fra den side. $R' U' R U' R' U^2 R L$ $U L' U L U^2 L'$
$(F R' F') r (U R U') r'$	$R' U^2 R^2 U R^2 U R^2 U^2 R'$	$(R U R') U R U'$ $(R' U R) U^2 R'$	

### Permute Last Layer (PLL) – Placer brikkerne rigtigt

Hjørner på plads

	
$(R U R') F' (R U R' U' R') F R^2 (U' R' U')$	$F (R U' R') U' (R U R') F'$ $(R U R') U' R' (F R F')$

Siderne på plads

	
$F^2 U' (L' R') F^2 (L' R) U' F^2$	$F^2 U (L' R') F^2 (L' R) U F^2$

### Links/kilder

- [www.speedcubing.dk](http://www.speedcubing.dk)