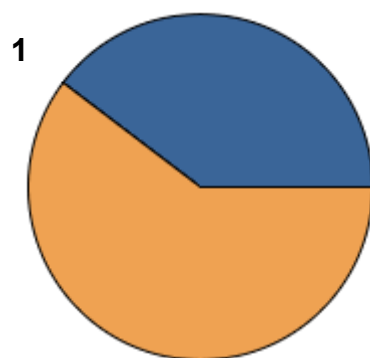
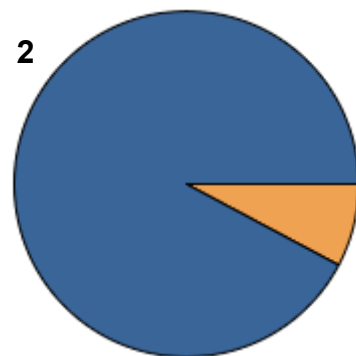


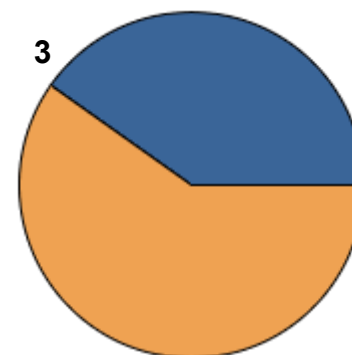
## Put/Call Notional Value Breakdown for Australian Dlr Options on Trade Date: 11/22/23



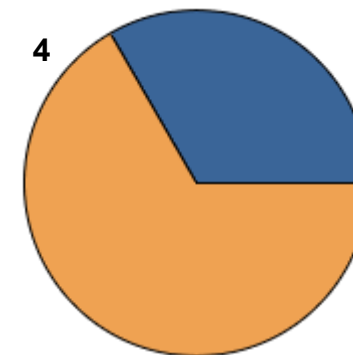
Australian Dlr Options



Australian Dlr Options



Australian Dlr Options



Australian Dlr Options

■ 202311 / Call Option ■ 202311 / Put Option

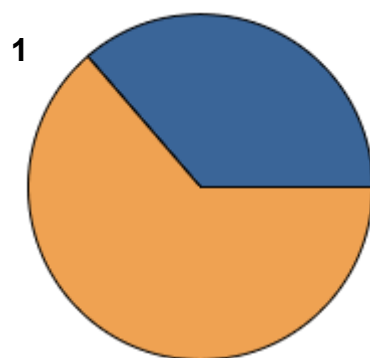
■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

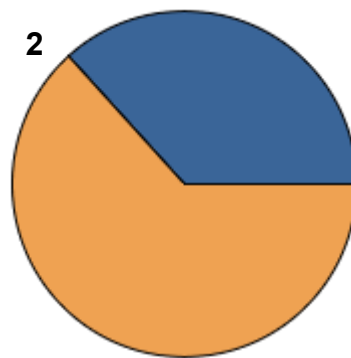
■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$1,636,375	\$2,487,290
2	DEC23	\$190,827,225	\$16,062,375
3	JAN24	\$12,272,810	\$18,245,140
4	FEB24	\$525,040	\$1,050,080

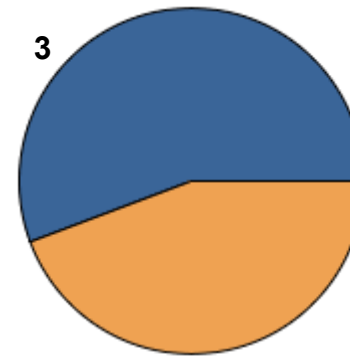
## Put/Call Notional Value Breakdown for British Pound Options on Trade Date: 11/22/23



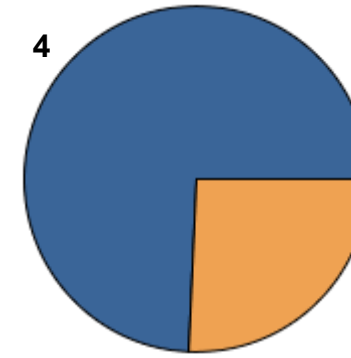
British Pound Options



British Pound Options



British Pound Options



British Pound Options

■ 202311 / Call Option ■ 202311 / Put Option

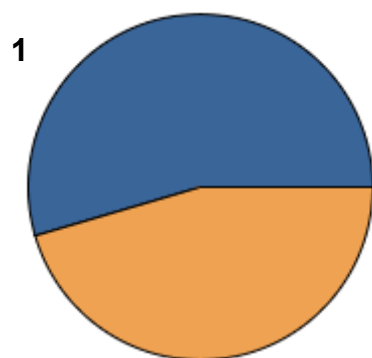
■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

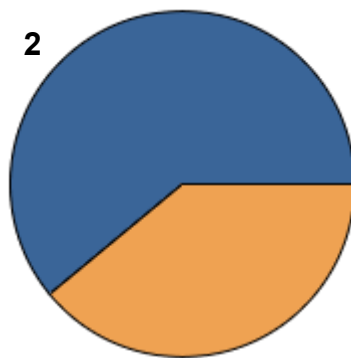
■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$312,160	\$546,280
2	DEC23	\$18,495,480	\$31,840,320
3	JAN24	\$26,611,640	\$21,148,840
4	FEB24	\$2,029,040	\$702,360

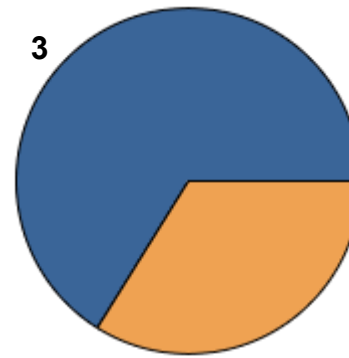
## Put/Call Notional Value Breakdown for Canadian Dlr Options on Trade Date: 11/22/23



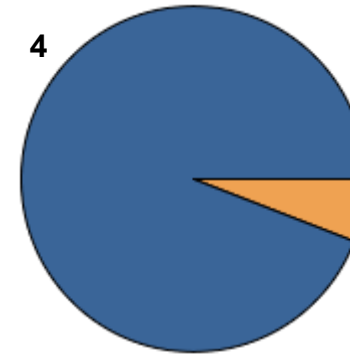
Canadian Dlr Options



Canadian Dlr Options



Canadian Dlr Options



Canadian Dlr Options

■ 202311 / Call Option ■ 202311 / Put Option

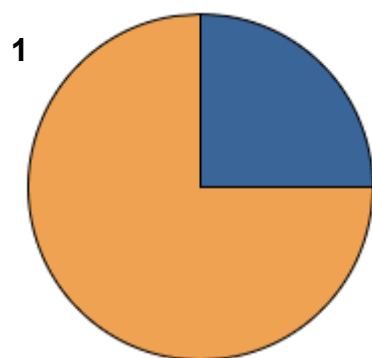
■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

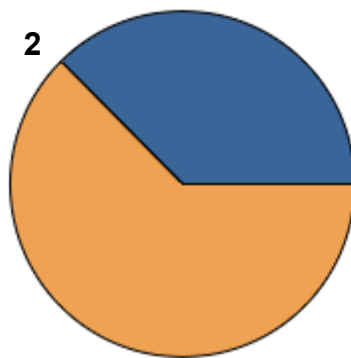
■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$438,030	\$365,025
2	DEC23	\$59,614,125	\$38,134,815
3	JAN24	\$5,966,730	\$3,056,130
4	FEB24	\$18,700,605	\$1,164,240

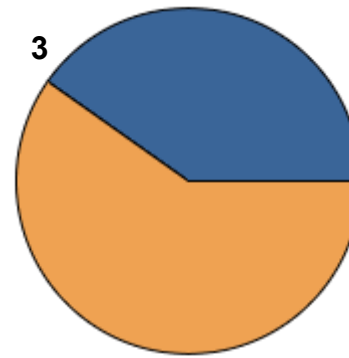
## Put/Call Notional Value Breakdown for Euro FX Options on Trade Date: 11/22/23



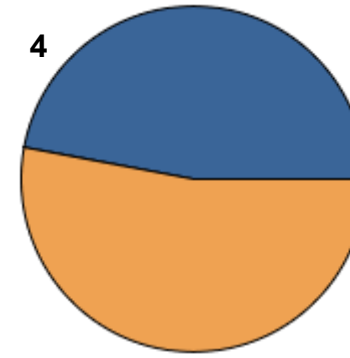
**Euro FX Options**



**Euro FX Options**



**Euro FX Options**



**Euro FX Options**

■ 202311 / Call Option ■ 202311 / Put Option

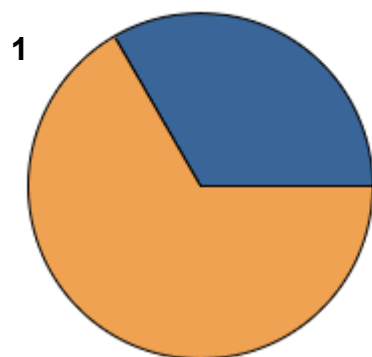
■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

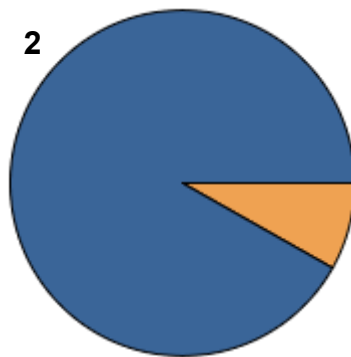
■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$10,350,726	\$31,052,176
2	DEC23	\$619,448,551	\$1,034,681,357
3	JAN24	\$105,849,338	\$157,269,688
4	FEB24	\$3,282,150	\$3,692,419

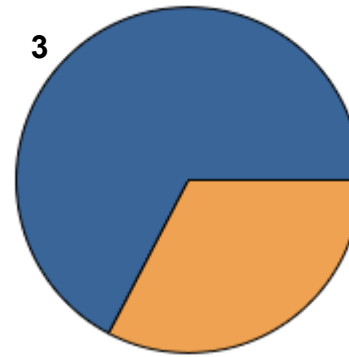
## Put/Call Notional Value Breakdown for Japanese Yen Options on Trade Date: 11/22/23



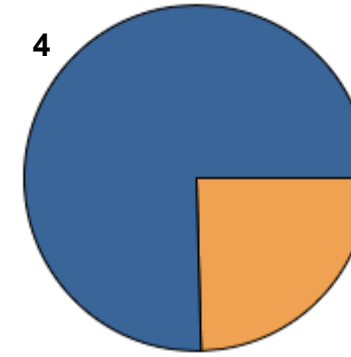
Japanese Yen Options



Japanese Yen Options



Japanese Yen Options



Japanese Yen Options

■ 202311 / Call Option ■ 202311 / Put Option

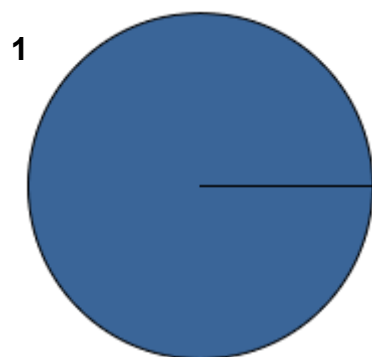
■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

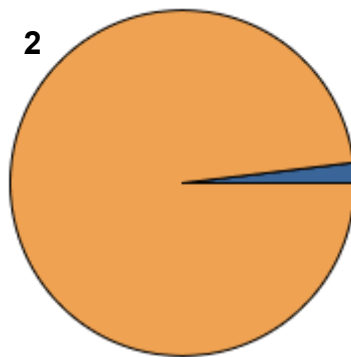
■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$3,191,668	\$6,383,335
2	DEC23	\$1,121,955,119	\$99,781,605
3	JAN24	\$36,200,229	\$17,554,171
4	FEB24	\$52,074,575	\$16,966,233

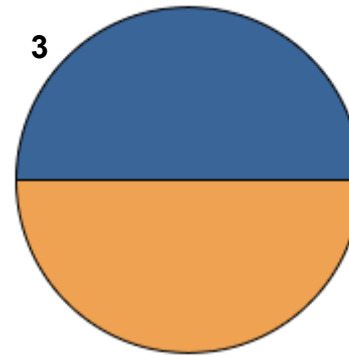
## Put/Call Notional Value Breakdown for Swiss Franc Options on Trade Date: 11/22/23



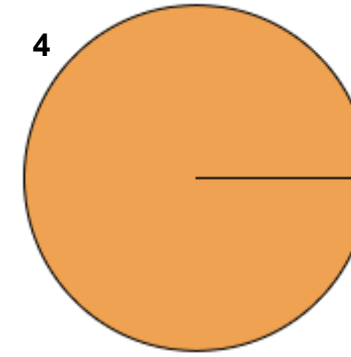
Swiss Franc Options



Swiss Franc Options



Swiss Franc Options



Swiss Franc Options

■ 202311 / Call Option ■ 202311 / Put Option

■ 202312 / Call Option ■ 202312 / Put Option

■ 202401 / Call Option ■ 202401 / Put Option

■ 202402 / Call Option ■ 202402 / Put Option

Contract Expiration Month		Call Option	Put Option
1	NOV23	\$565,805	\$0
2	DEC23	\$565,805	\$29,421,861
3	JAN24	\$282,903	\$282,903
4	FEB24	\$0	\$282,903