

CALENDAR SUMMARY
PRIME DIRECTIVE → KEEP PACE WITH THE SEASONS
TROPICAL YEAR = 365.2422 DAYS

EARLY CALENDARS

LUNAR:

PHASES OF THE MOON, 29.5 DAYS

$29.5 \times 12 = 354$ → NEED 11 ADDED DAYS EACH YEAR

SOLAR:

HORIZON CALENDARS:

BABYLONIAN & EGYPTIAN - 365.25 DAYS

JULIUS CAESAR: THE JULIAN CALENDAR (45 BC)

12 MONTHS OF 30 OR 31 DAYS, EXCEPT FEBRUARY (29)

REMOVES THE 11 ADDED DAYS

ADD A “LEAP DAY” FEBRUARY 30 EVERY 4 YEARS

365.25 DAYS → 1 DAY ERROR IN 128 YEARS

→ UPON JULIUS’ DEATH QUINTILIUS RENAMED TO JULY

→ UPON [AUGUSTUS’ DEATH](#):

SEXTILIUS RENAMED TO AUGUST

ONE DAY TAKEN FROM FEBRUARY (28) SO THAT

BOTH JULY AND AUGUST HAVE 31 DAYS

POPE GREGORY XIII: THE GREGORIAN CALENDAR

10 - 14 DAYS REMOVED ([1582 TO 1930](#))

CALENDAR PAGES (1582 [A B](#)) (1752 [A B](#))

ONLY CENTURY YEARS EVENLY DIVISIBLE BY 400

(1600, 2000, 2400, ...) ARE LEAP YEARS

→ 365.2425 DAYS → 1 DAY ERROR IN 3300 YEARS