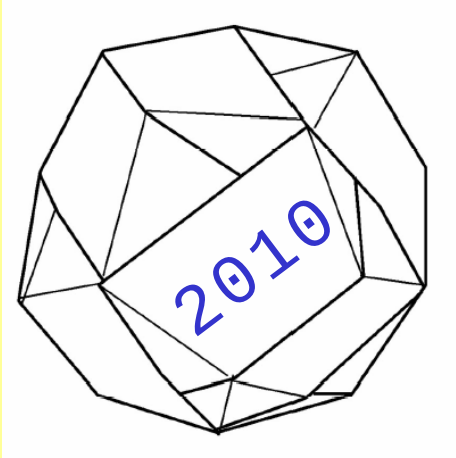
Calendar „Pentagon“



The model was originally designed by Tomoko Fuse, Japan and designed as a calendar by Sara Giarrusso and Ramin Razani, Italy. Pictures and the diagrams (Paola Scaburri) are published at

http://www.origami-cdo.it/modelli/pdf/

Centro Diffusione Origami

This calendar-model was optimised by Matthias Eichel, Kassel and Stefan Delecat, Göttingen, provided with optimised folding instructions too and published as calendar in German and English language first for 2007 and again **for 2010** for the members and all friends of Origami Deutschland.

Happy folding

Stefan Delecat and Matthias Eichel

January

Origami Deutschland

June

MARCH 2019

Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

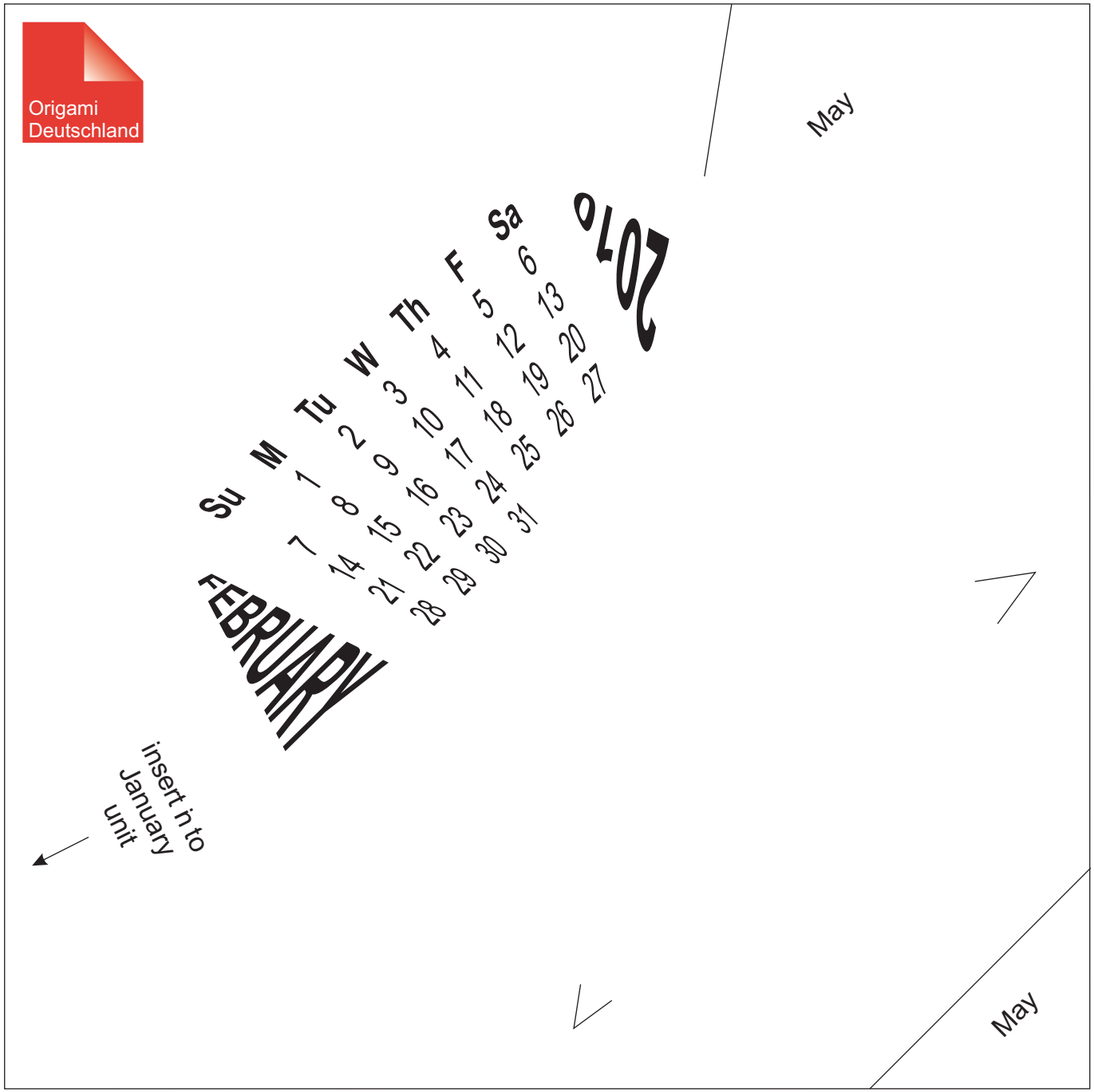
insert in to February unit

June

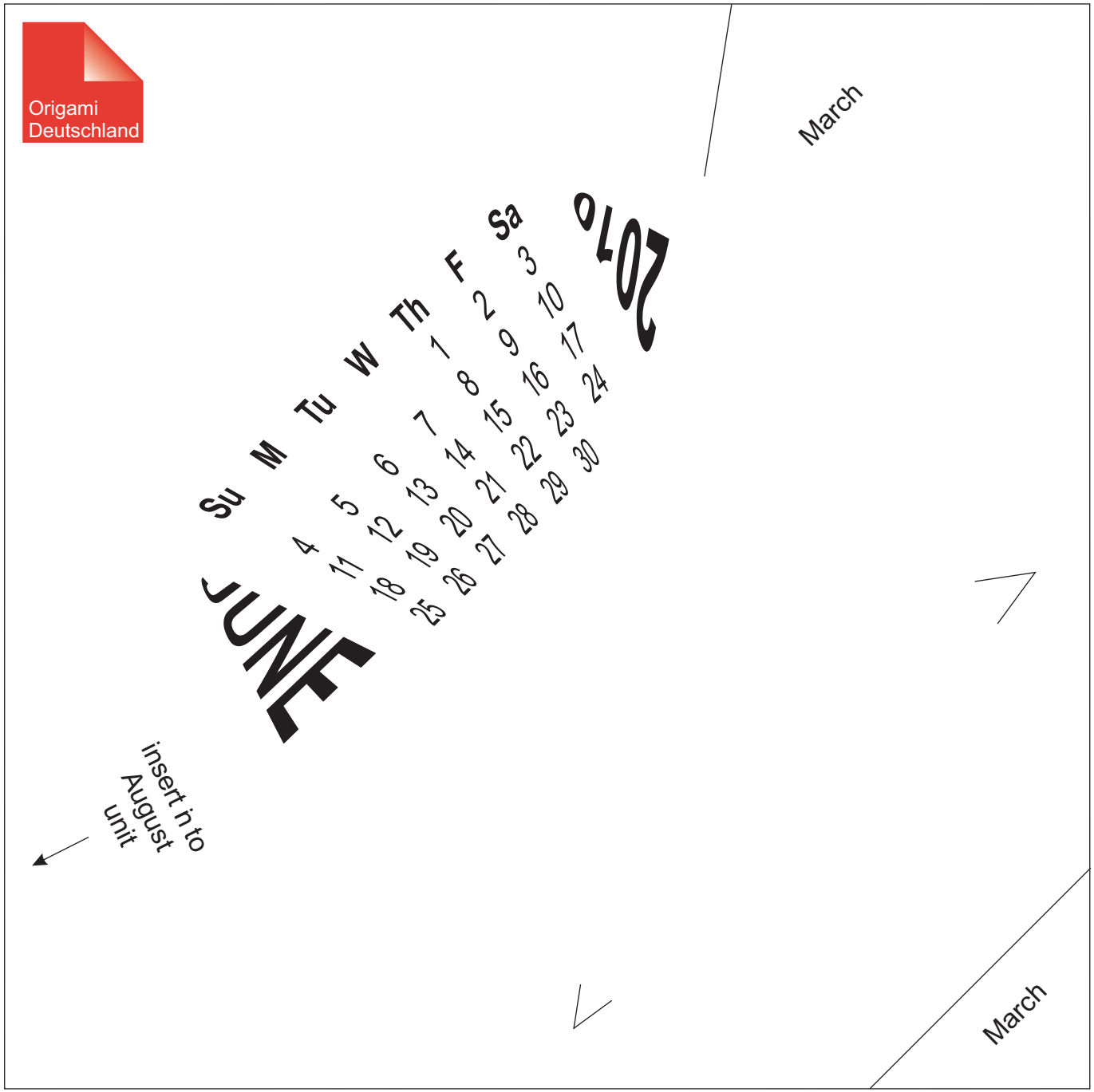
February


Origami
Deutschland
October
2010
JANUARY
Su M Tu W Th F Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28
insert in to
March
unit
Oktober

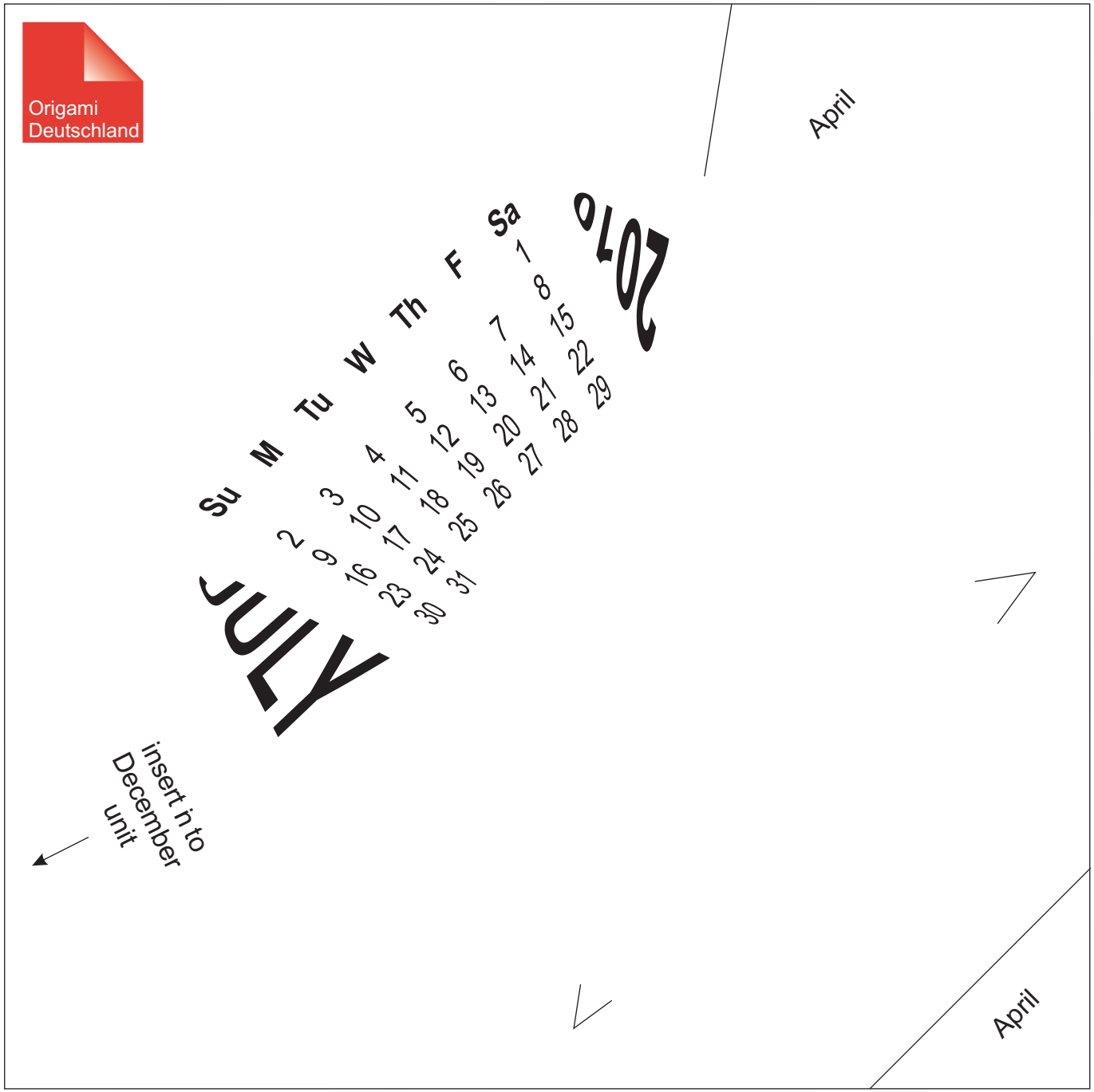
March


Origami
Deutschland
May
2010
Su M Tu W Th F Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
FEBRUARY
insert in to
January
unit
May

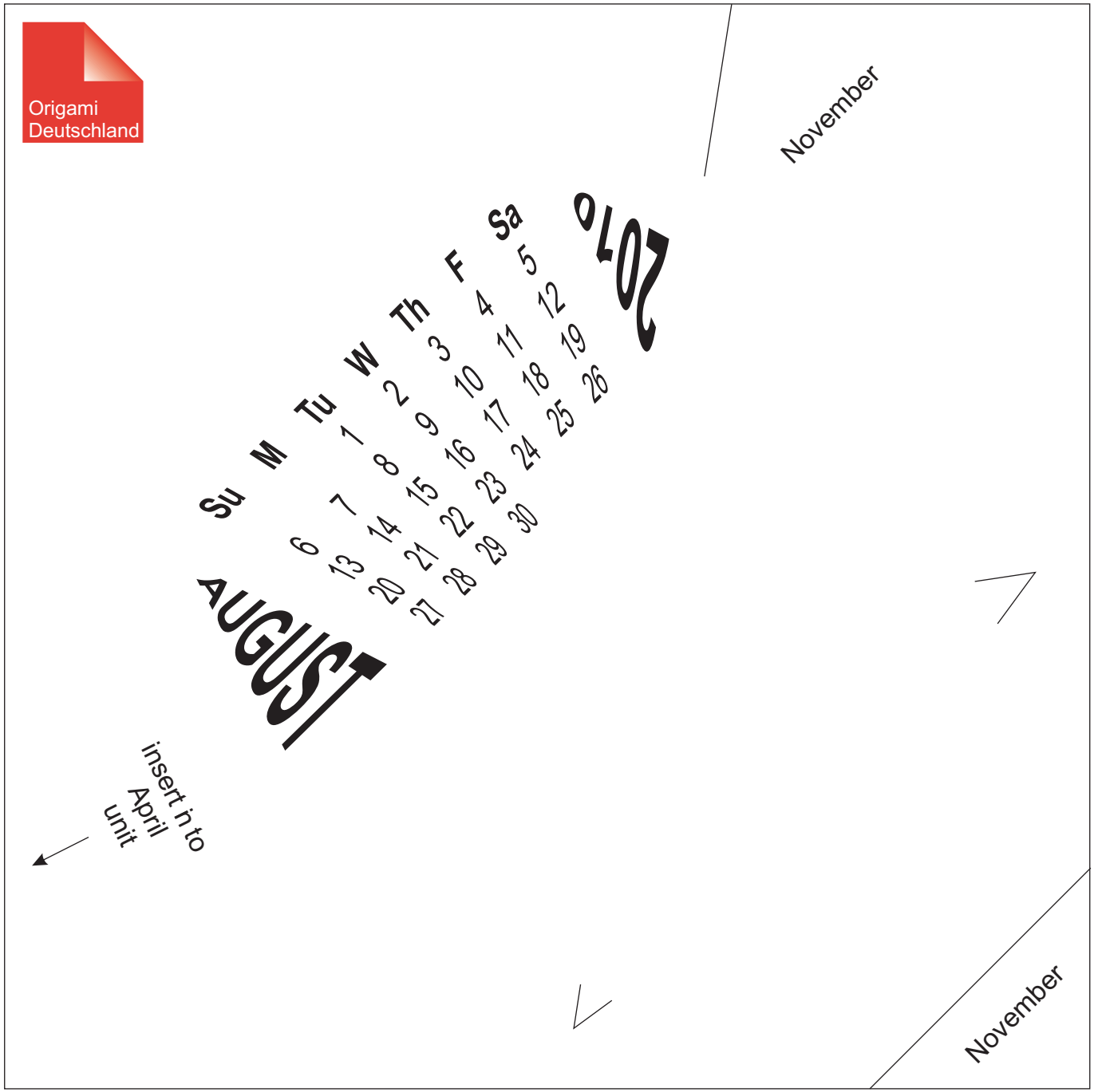
April


Origami
Deutschland
March
2010
Su M Tu W Th F Sa
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30
JUNE
insert in to
August
unit
March

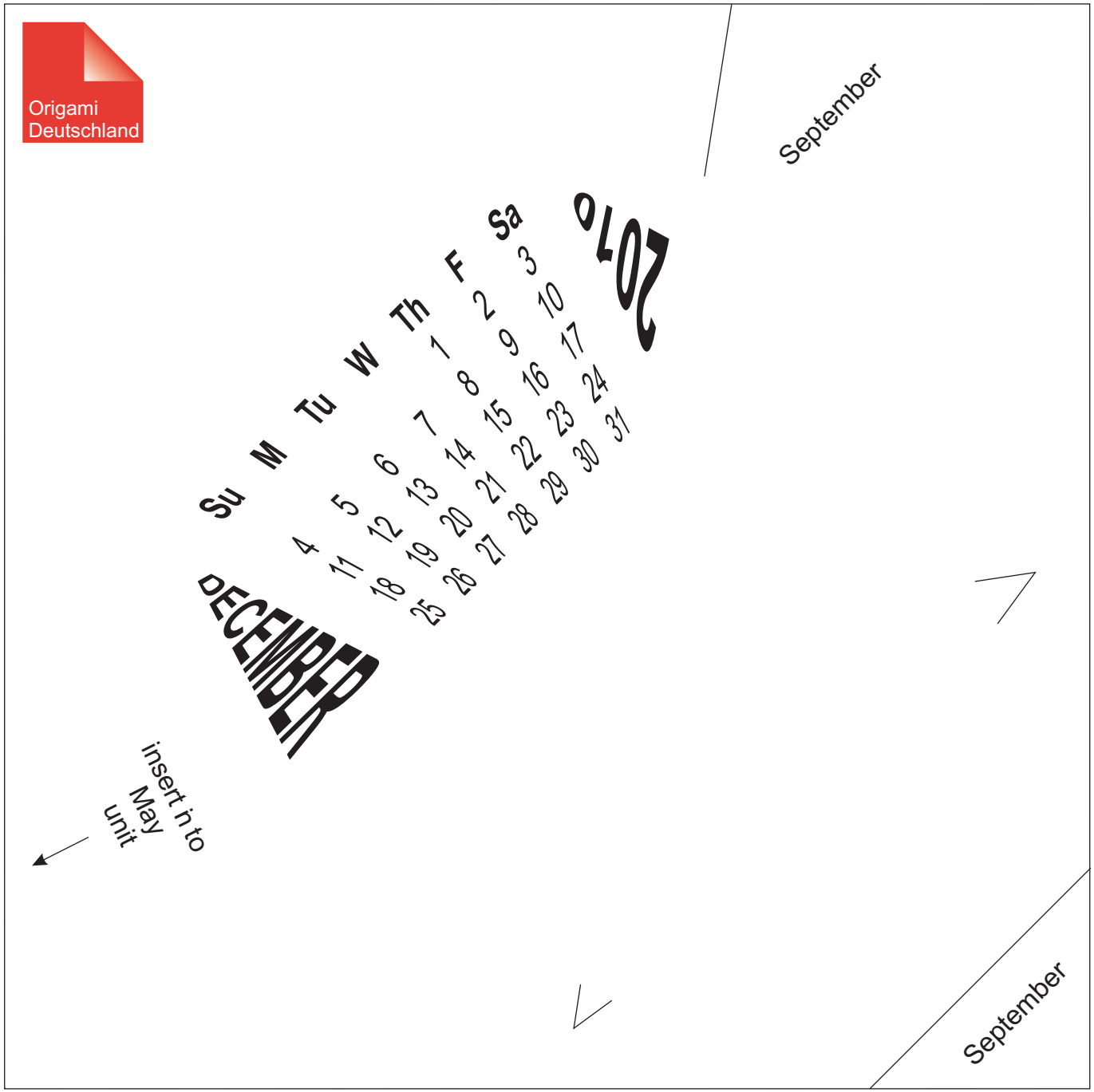
May


Origami
Deutschland
April
2010
Su M Tu W Th F Sa
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
JULY
insert in to
December
unit
April

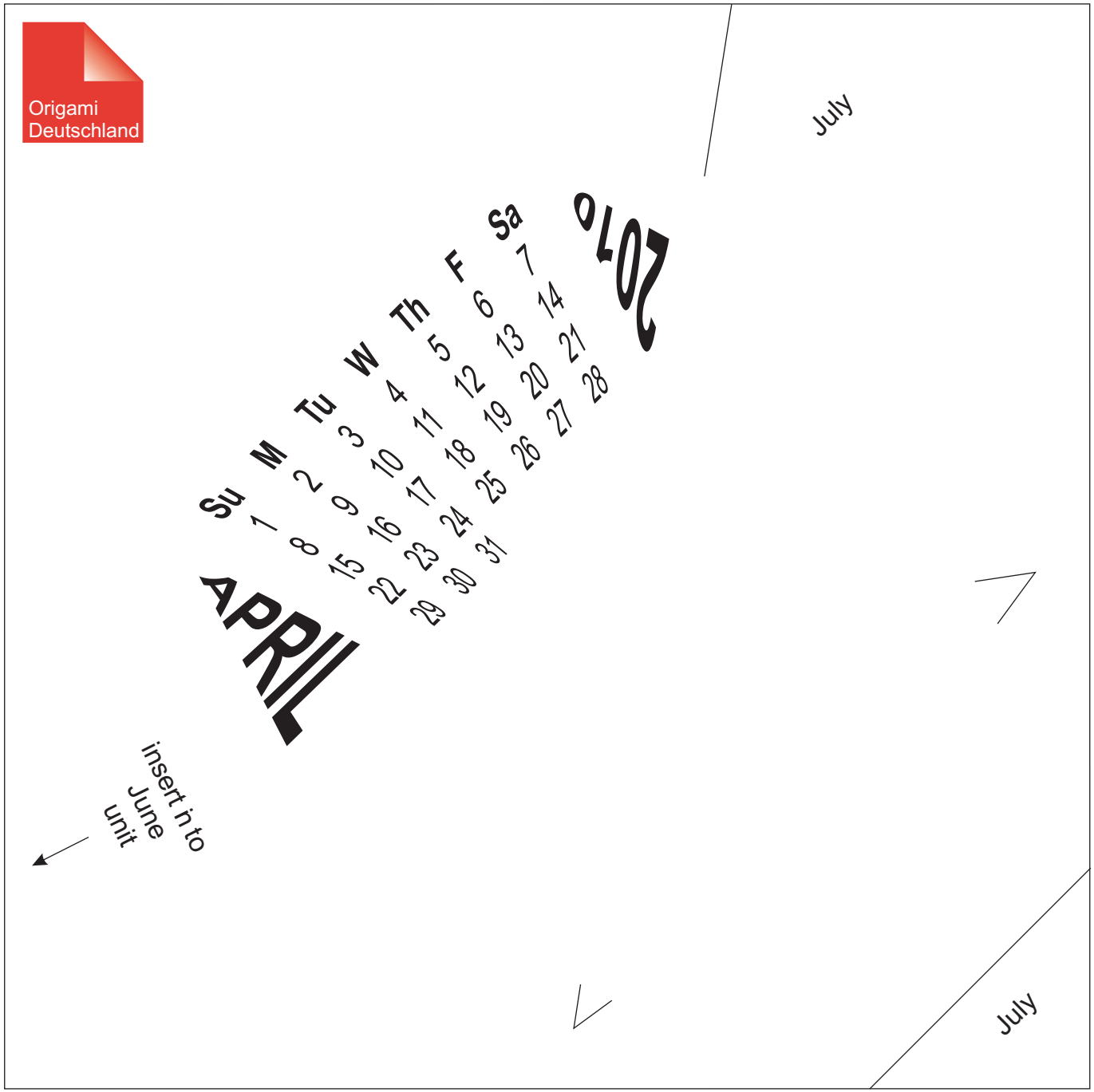
June


Origami
Deutschland
November
2010
Su M Tu W Th F Sa
1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30
AUGUST
insert in to
April
unit
November

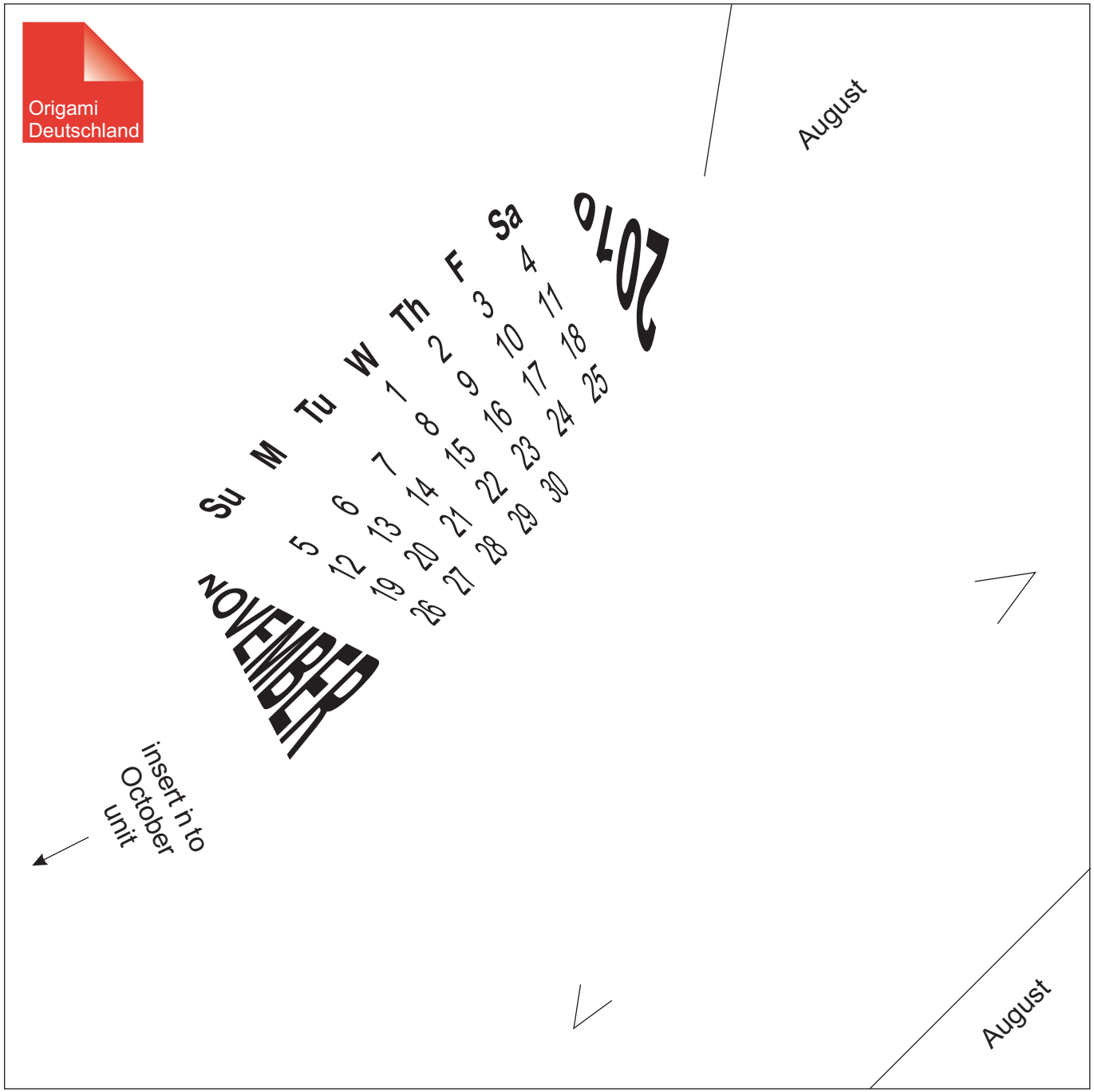
July


Origami
Deutschland
September
2010
Su M Tu W Th F Sa
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
DECEMBER
insert in to
May
unit
September

August


Origami
Deutschland
July
2010
APRIL
Su M Tu W Th F Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
insert in to
June
unit
July

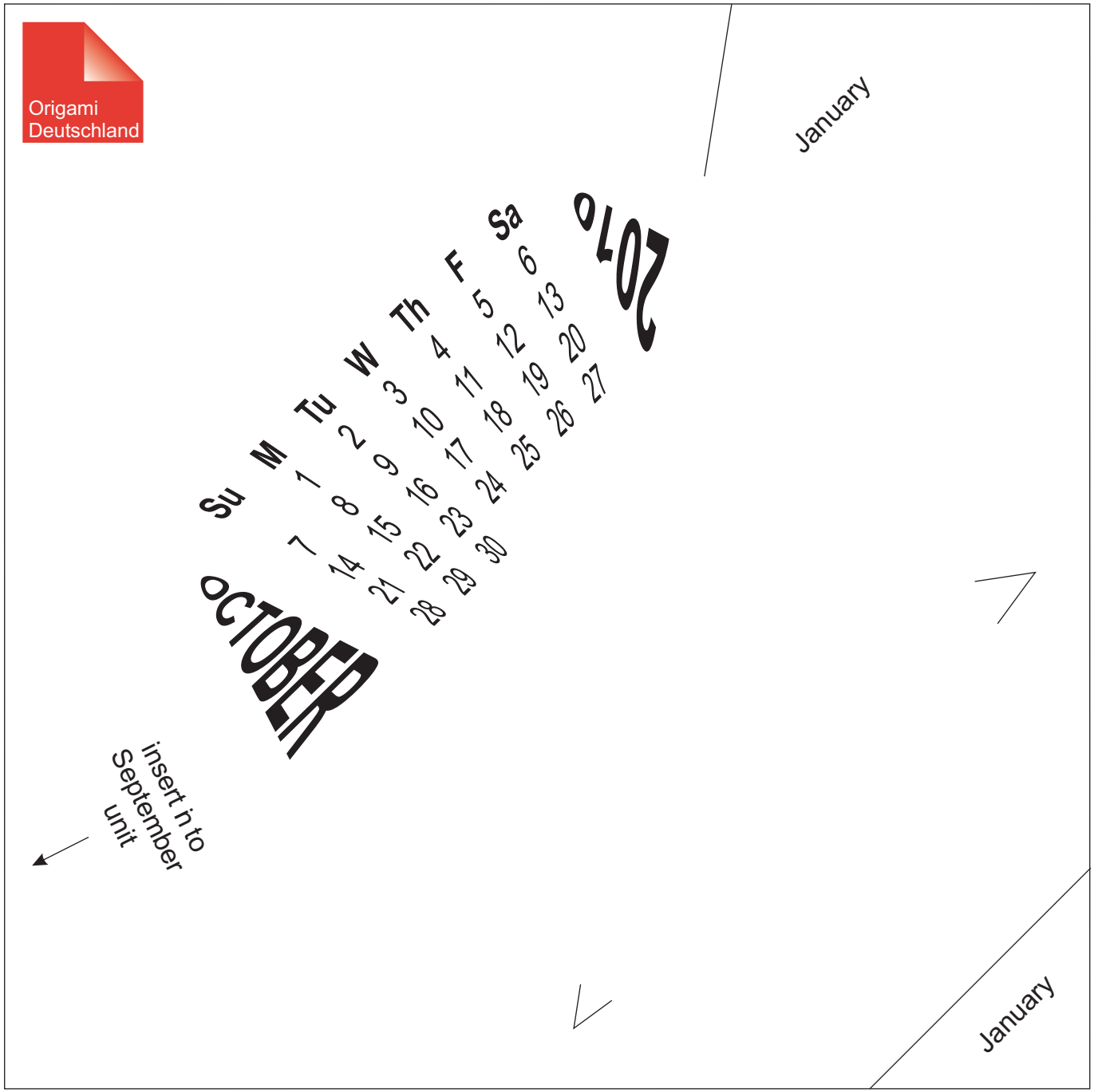
September


Origami
Deutschland
August
2010
Su M Tu W Th F Sa
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30
NOVEMBER
insert in to
October
unit
August

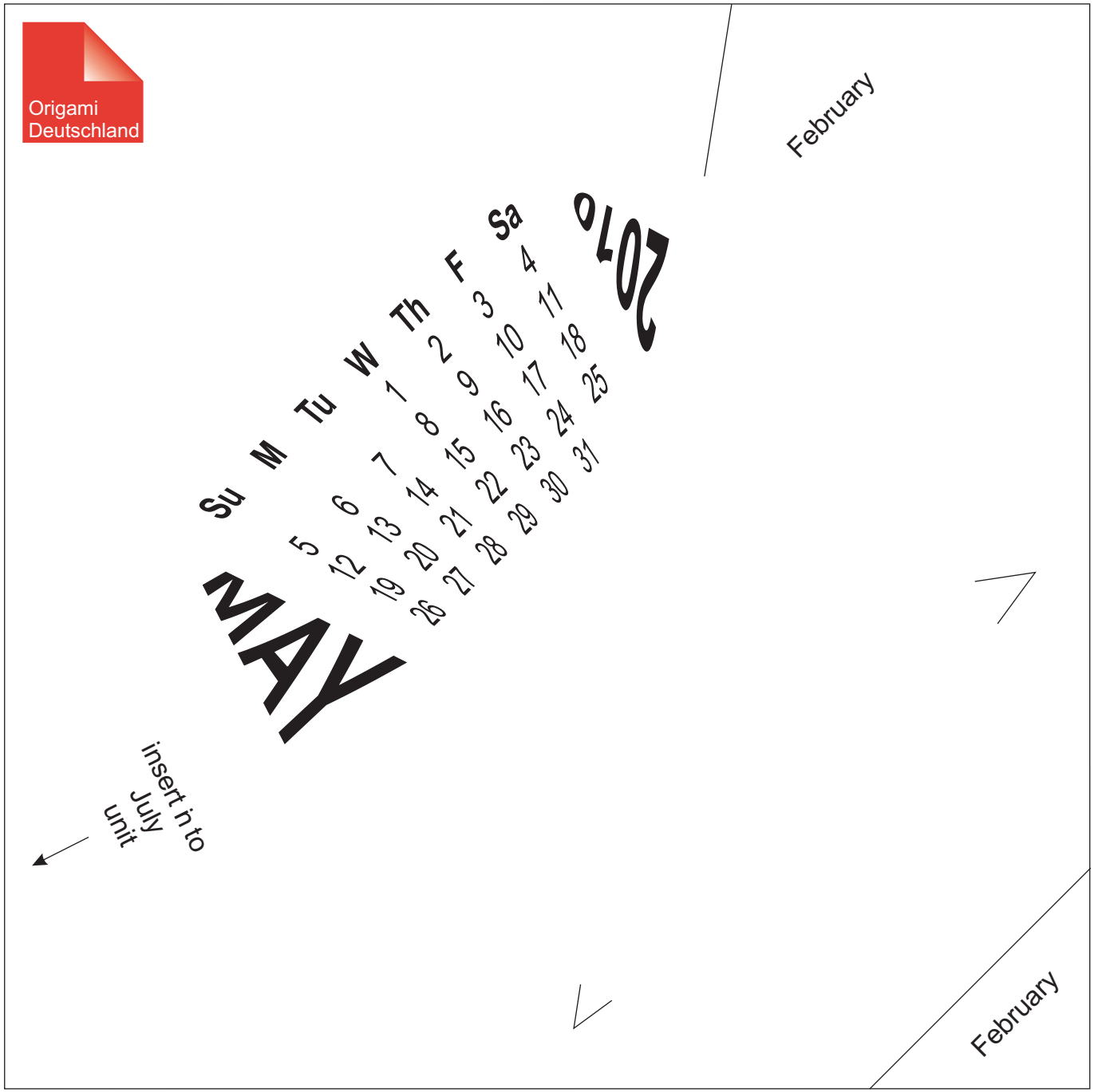
October


Origami Deutschland
December
Su M Tu W Th F Sa
1 2
3 4 5 6 7 8 9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
SEPTEMBER
insert in to November unit
December

November

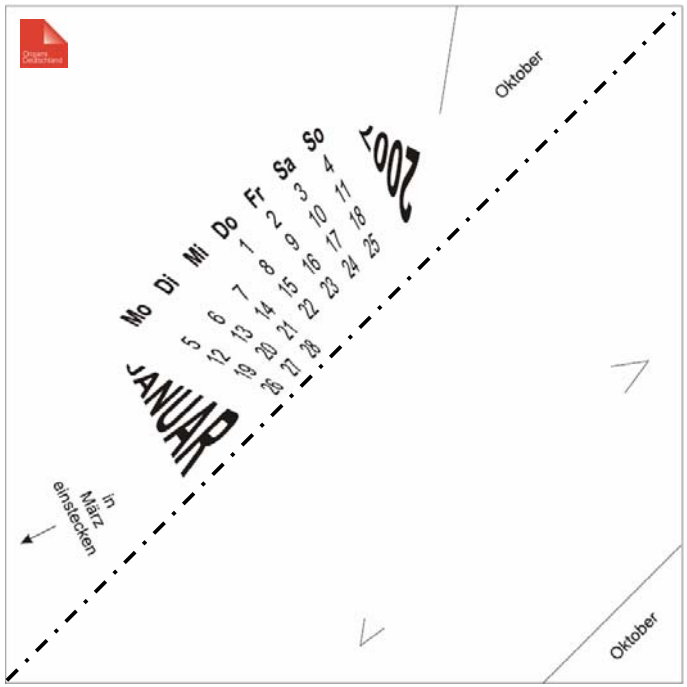

Origami
Deutschland
January
2010
Su M Tu W Th F Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30
OCTOBER
insert in to
September
unit
January

December

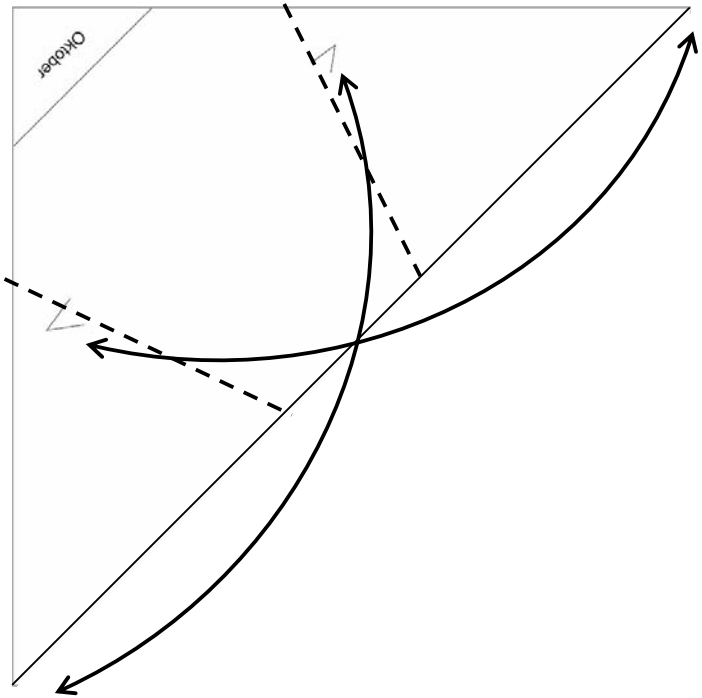

Origami
Deutschland
February
2010
Su M Tu W Th F Sa
1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
MAY
insert in to
July
unit
February

Folding Diagram page 1

1

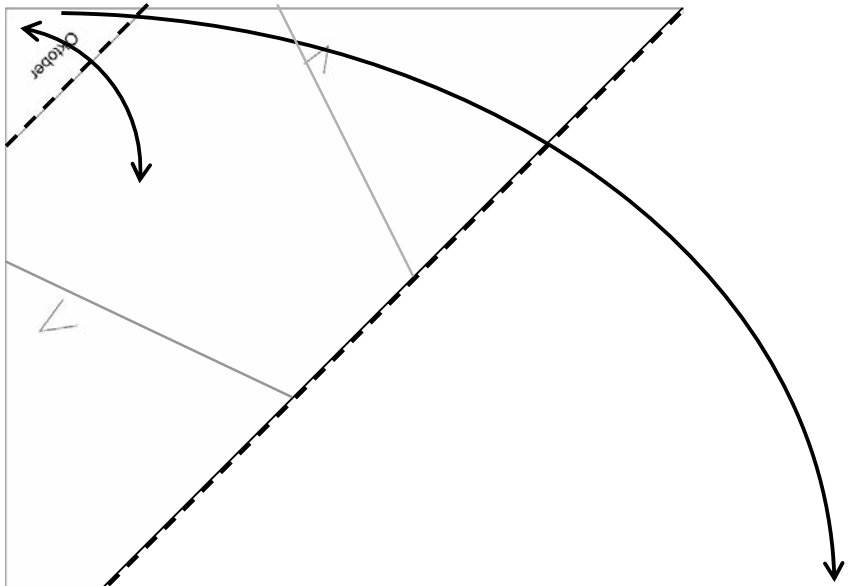


2



3a

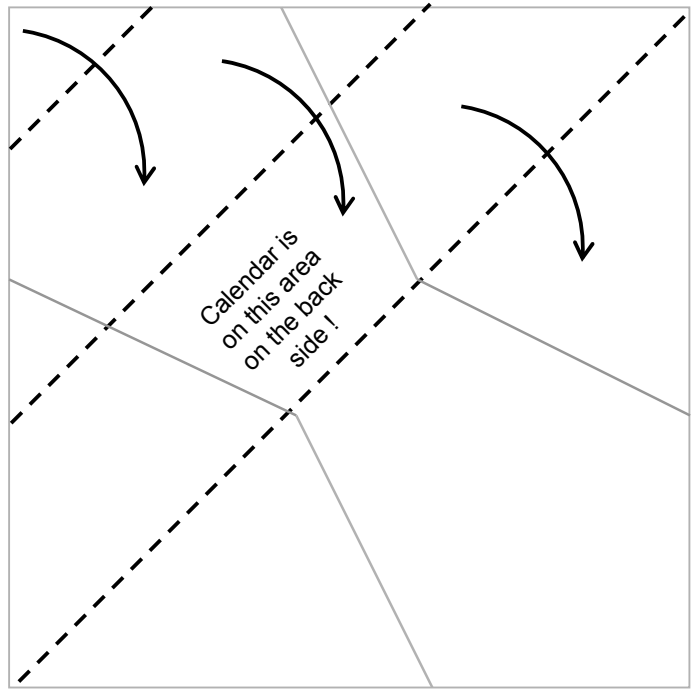
Both layers



3b

Only top layer

4a

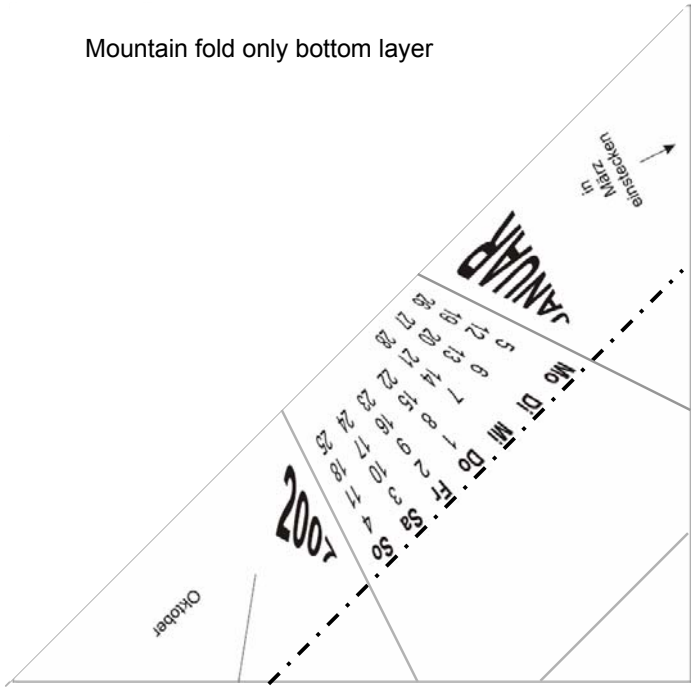


4b

4c

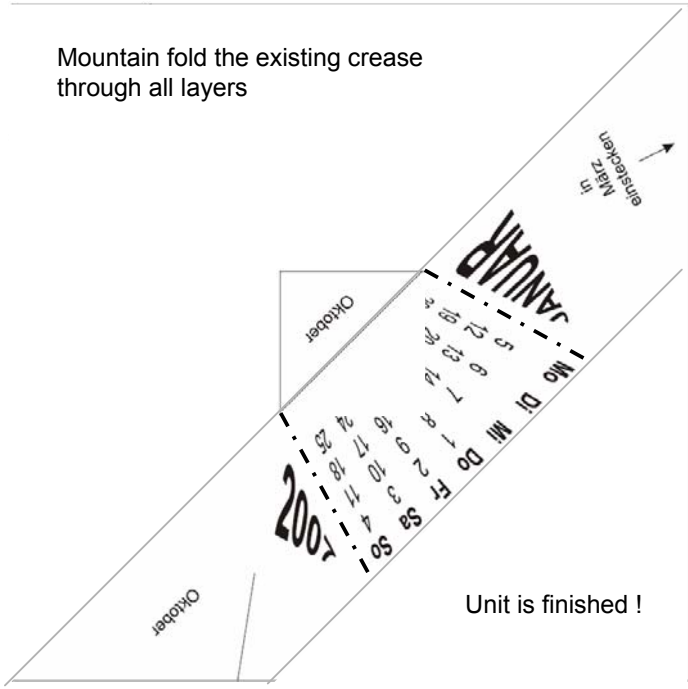
5

Mountain fold only bottom layer



6

Mountain fold the existing crease through all layers



Unit is finished !

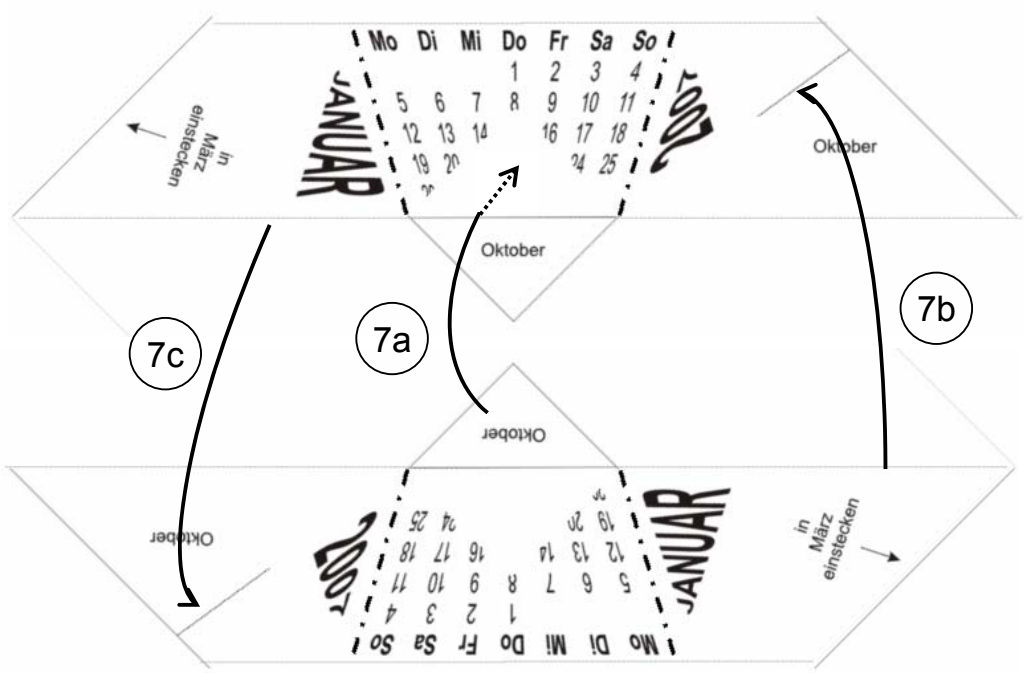
Folding Diagram page 2

7a Put the flap of unit 2 into the pocket of unit 1
Note: The month written on the flap of unit 2 refers to the unit with the imprinted name of this month with expanded font (unit 1)

7b Put the outer edge of unit 2 to the marking line of unit 1. Fold the supernatant little flaps over and put them into the pockets.

7c Put the outer edge of unit 1 to the marking line of unit 2. Fold the supernatant little flaps over and put them into the pockets

unit 1



unit 2

Assembly

8 Make 6 of these „duo-units“

9 Put the „duo-units“ together to finish the Pentagon
Note: The advice *„put into pocket of month“* means, that the flap of the unit with this advice is put into the pocket of the unit with imprinted name of the month with expanded font

Suggestion for multi-coloured calendars

Paper with imprinted name of the month ...	Coloured calendar with 1 colour	Coloured calendar with 3 colours	Coloured calendar with 6 colours	Coloured calendar with 12 colours
March	Colour 1	Colour 1	Colour 1	Colour 1
June	Colour 1	Colour 1	Colour 6	Colour 2
September	Colour 1	Colour 1	Colour 6	Colour 3
December	Colour 1	Colour 1	Colour 1	Colour 4
November	Colour 1	Colour 2	Colour 2	Colour 5
August	Colour 1	Colour 2	Colour 5	Colour 6
May	Colour 1	Colour 2	Colour 5	Colour 7
February	Colour 1	Colour 2	Colour 2	Colour 8
October	Colour 1	Colour 3	Colour 3	Colour 9
January	Colour 1	Colour 3	Colour 4	Colour 10
April	Colour 1	Colour 3	Colour 4	Colour 11
July	Colour 1	Colour 3	Colour 3	Colour 12

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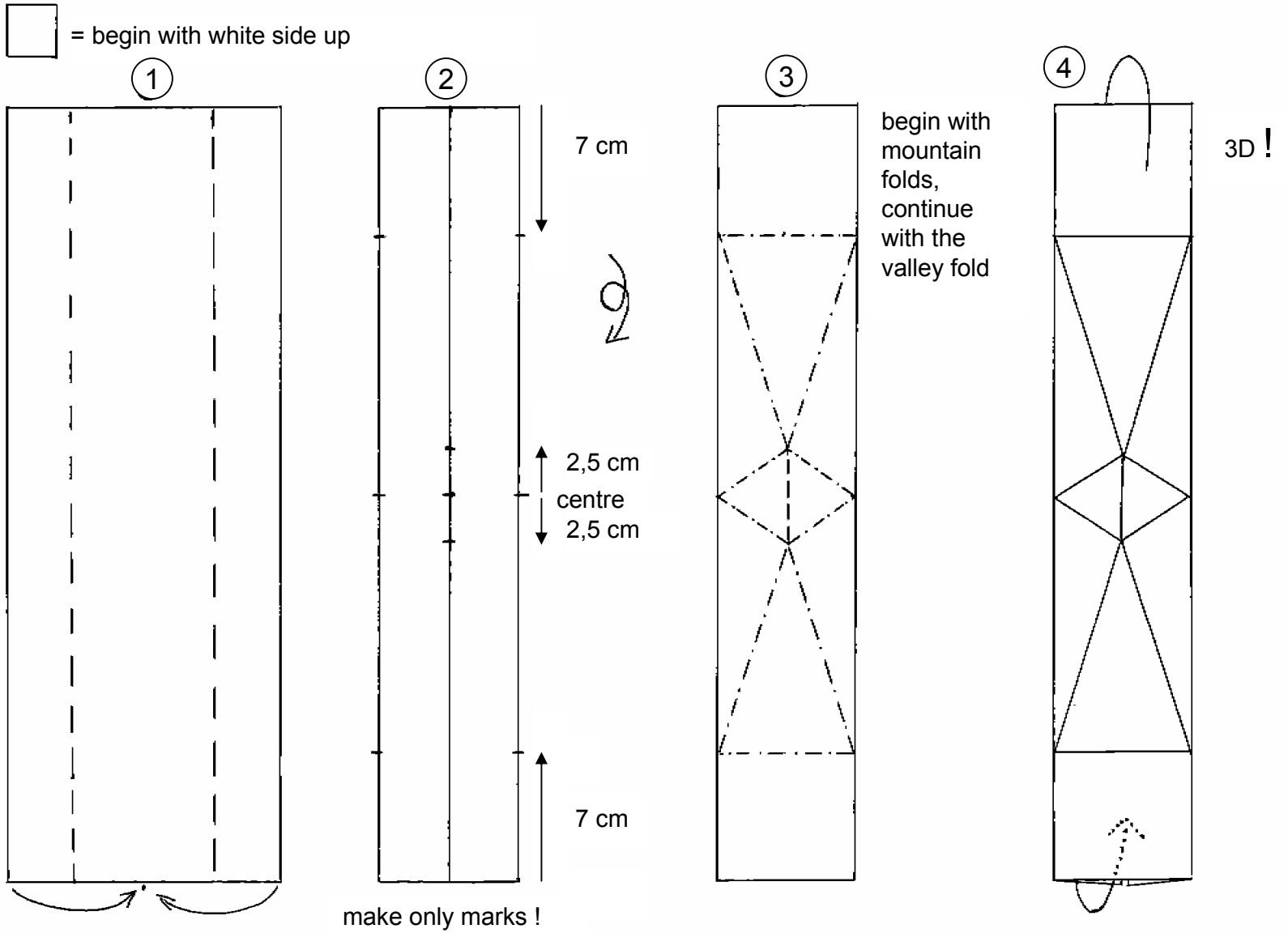
Recommendation: Pay attention to sufficient contrast between colour of the paper and the imprinted calendar, for best result do not use dark paper

Folding Diagram for a calendar holder „column“
(a variation of the „chopstick holder “ by Didier Boursin)



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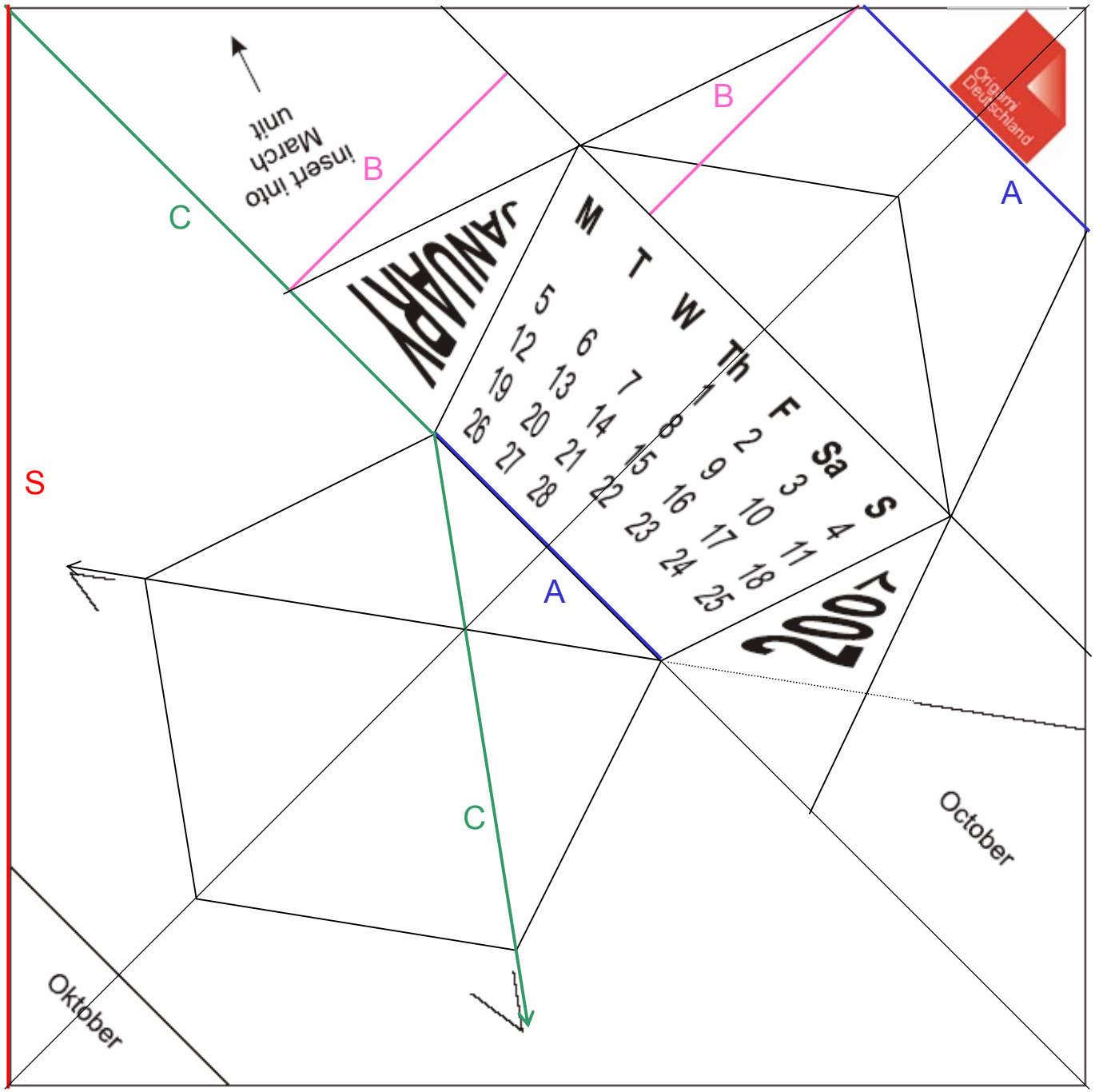
Suggestion for paper format: ½ of DIN A 3 = 42 cm x 14,8 cm, best result with 160g-paper,
Suggestion for colour: black paper (coloured on both sides)



Background-Information: geometrical basis

For a given regular pentagon with side length „**A**“ the size of the square is the following:

The "height" of the Pentagon from the bottom line up to the broadest place „**B**“ (1st parallel line to the diagonal line of the square) is duplicated (2nd parallel line to the diagonal line).

The length of this diagonal line is „**A**“. On top we put another right-angled triangle. This entire construction make up 1/2 of the length of the diagonal line of the final square.

The side length „**S**“ of the final square results as:

$$S = 2 \times \sqrt{\frac{(2B + 0{,}5A)^2}{2}}$$

The position of the arrows is:

You take an arrow with length: From an edge of the square to the beginning of the bottom edge of the pentagon „**C**“ and twist it that it starts at the bottom edge of the pentagon and points through the meeting point of the 1st parallel line with the pentagon. The end of the arrow is the "magic" point we looked for.