



Defence Academy  
of the United Kingdom



# Wargame Component and Mapping Production

**Major Tom Mouat**

# Disclaimer

This presentation represents the **personal** view of the author and is in no way representative of official UK MOD policy.

The UK MOD is small, but still bigger than one man can know.  
**He might have missed something.**

The author is a full-time reservist serving beyond mandatory retirement age and is therefore possibly **embittered** and **cynical** after 40 years service... :-)

# Components are important

- Components affect the gameplay.
- Components affect the players perception of the game.
- Quality components encourage player buy-in and immersion.



# Components are important



Amateurs ask for a copy of the rules.

Experience players want to talk about the game mechanisms.

Professionals talk components...

Ed McGrady

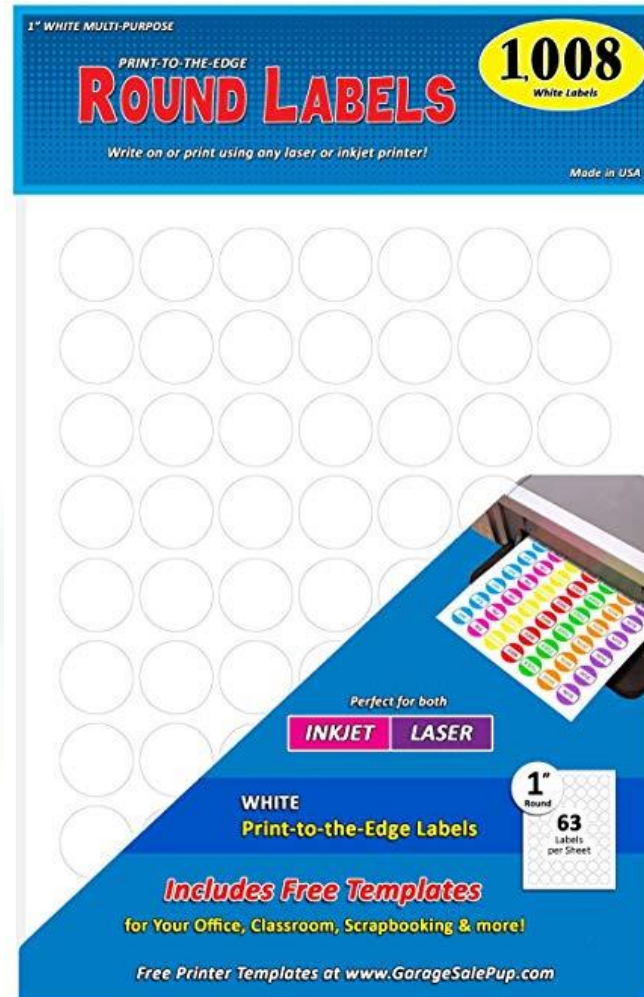


# Professional components look professional...

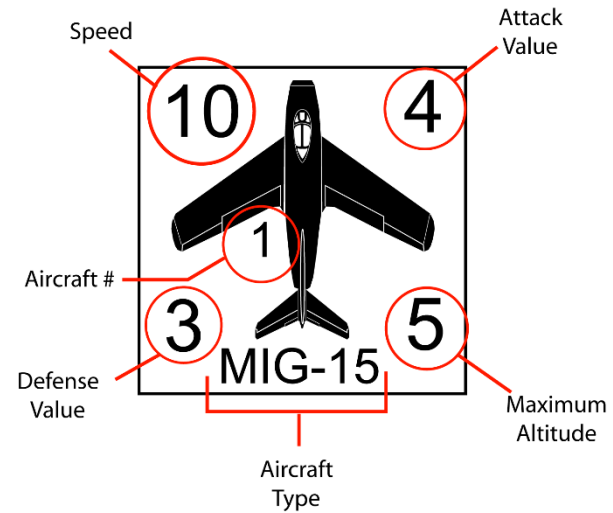




# Counters



# Counters





# Counters

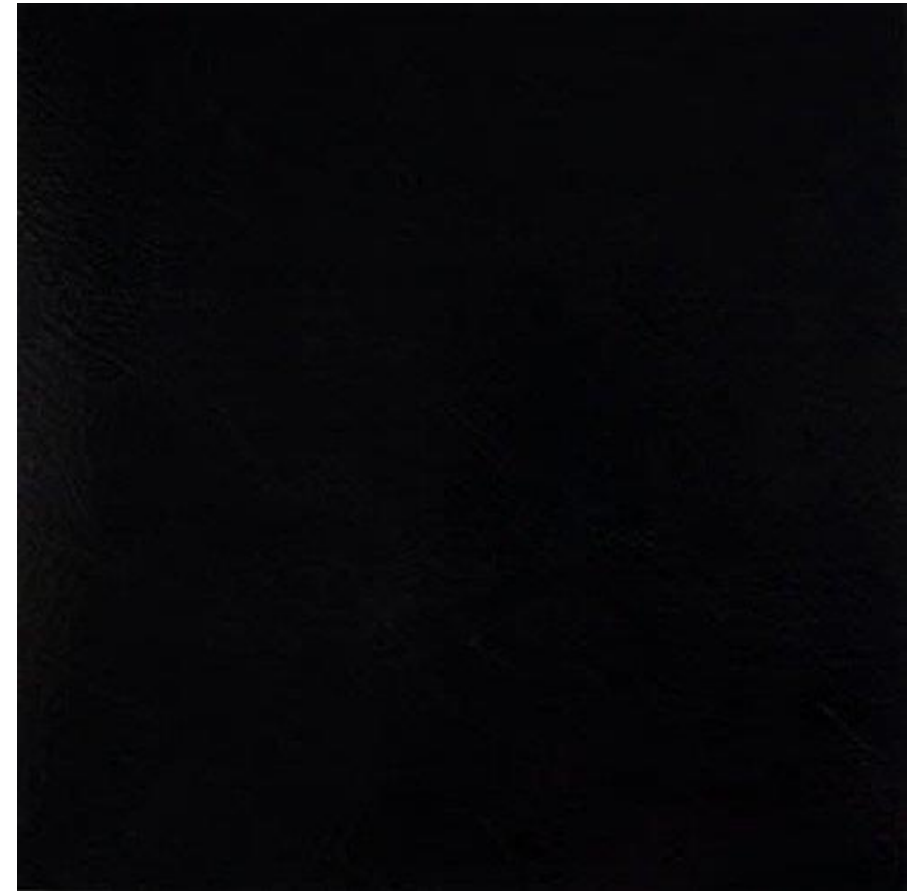


# Tools – More on Counters...

CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
BGHQ 2	BGHQ 1	WR PL 1	Dismount 2	PM PL 0	A2 ECHN 0	UAV
MEDIC 1	A1 ECHN 0	LAD 1	MEDIC 1	A1 ECHN 0	LAD 1	UAV

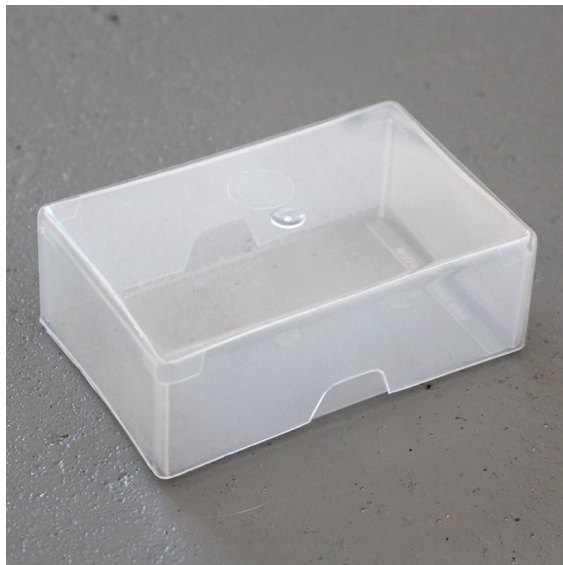
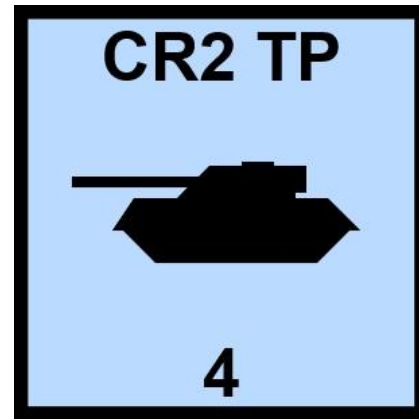
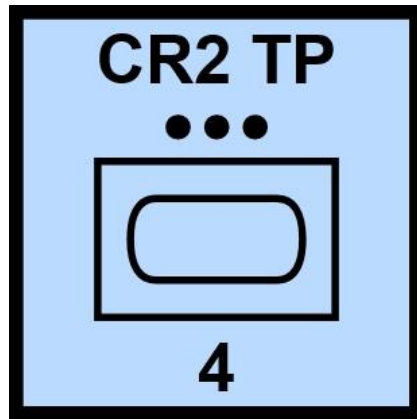
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CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	0
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
CR2 TP 4	CR2 TP 4	WR PL 1	Dismount 2	PM PL 0	Dismount 2	Javelin 1
BGHQ 2	BGHQ 1	WR PL 1	Dismount 2	PM PL 0	A2 ECHN 0	UAV
MEDIC 0	A1 ECHN 0	LAD 0	MEDIC 0	A1 ECHN 0	LAD 0	UAV

# Foamboard and Floor Tiles



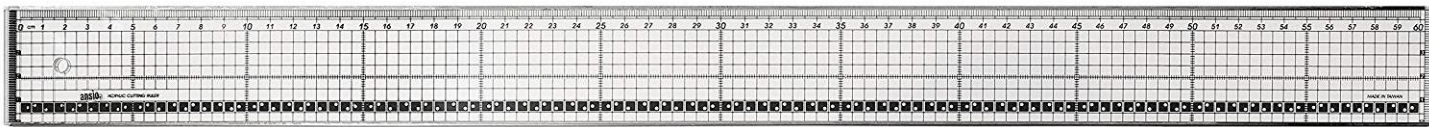
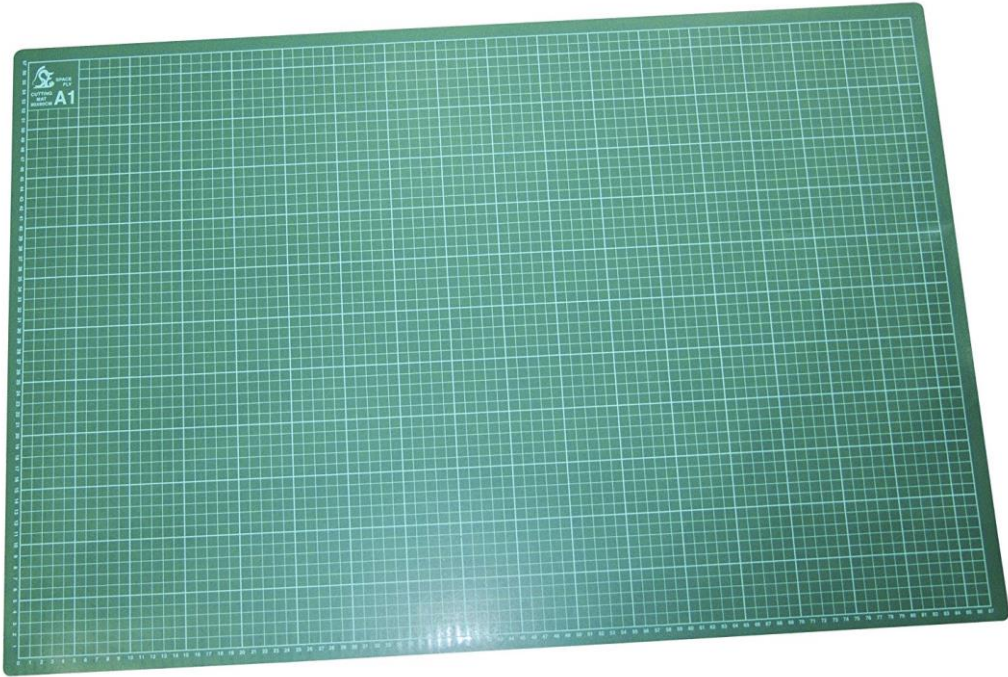


# Counters



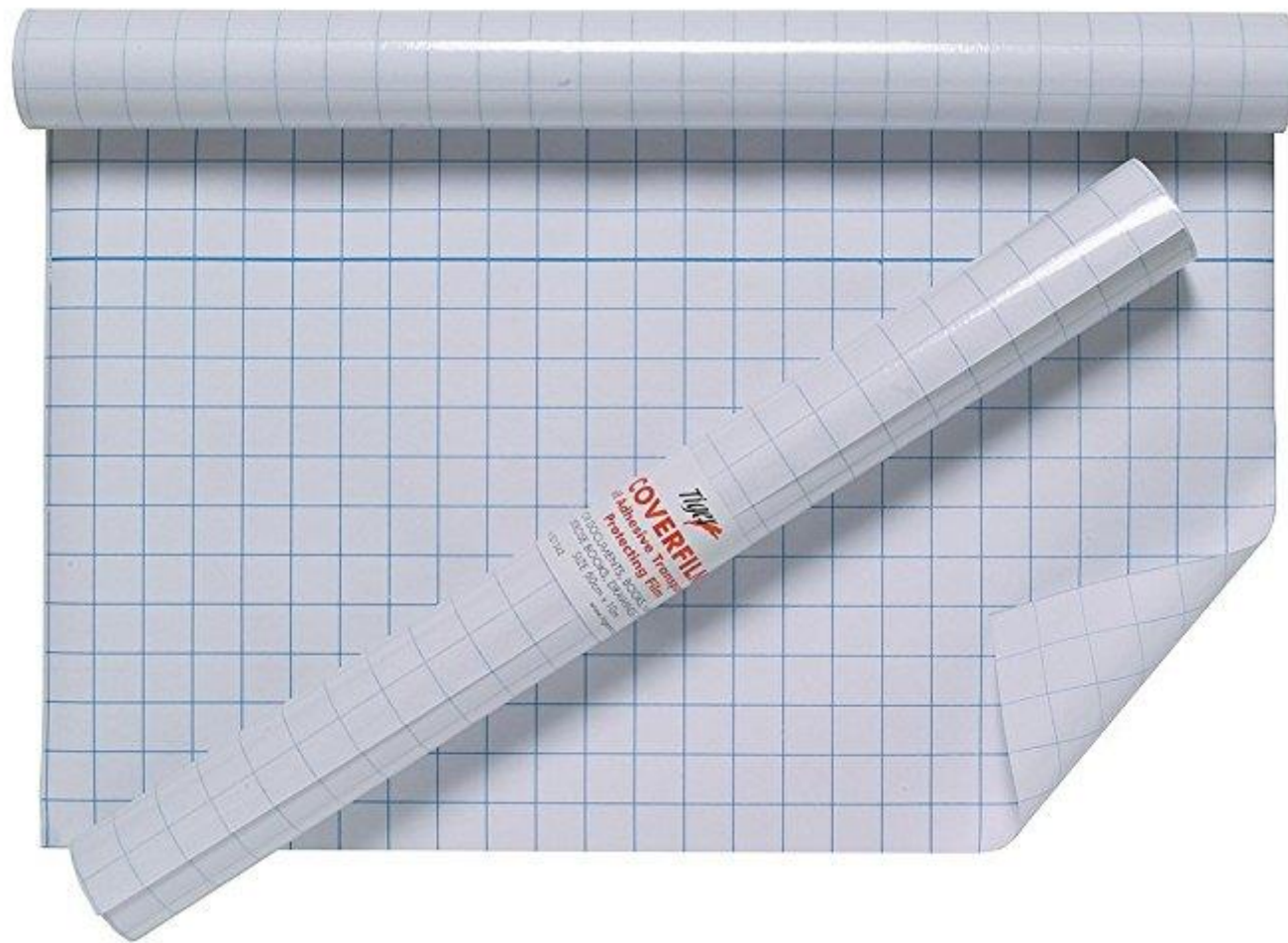
A COY HQ 0	B COY HQ 0	C COY HQ 0	D COY HQ 0	Sniper 0	BG MAIN 0	
A RIFLE TP 0	B RIFLE TP 0	C RIFLE TP 0	D RIFLE TP 0	Sniper 0	BG TAC 0	A1 ECHN 0
A RIFLE TP 0	B RIFLE TP 0	C RIFLE TP 0	D RIFLE TP 0	Sniper 0	STEP UP 0	A2 ECHN 0
A FSG 2	B FSG 2	C FSG 2	D FSG 2	RECCE 0	RAP 0	B ECHN 0
A FST 0	B FST 0	C FST 2	D FST 2	RECCE 0	MORTAR 0	MORTAR 3
A AMB 0	B AMB 0	C AMB 0	D AMB 0	RECCE 0	MORTAR 0	MORTAR 3
A CQMS 0	B CQMS 0	C CQMS 0	D CQMS 0	Dismount 2	MORTAR 0	MORTAR 3
A ENGR 0	B ENGR 0	C ENGR 0	D ENGR 0	Dismount 2	Dismount 2	Dismount 2
A GPMGSF 1	B GPMGSF 1	C GPMGSF 1	D GPMGSF 1	Dismount 2	Dismount 2	UAV ✓
Javelin 1	Javelin 1	Javelin 1	Javelin 1	Dismount 2	Dismount 2	UAV ✓

# Cutters and Mats





# Cover Film



# Magnetic Sheet





# Tokens & Pieces



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Meebles - Character Mega Meebles

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 Zombie meeble £1.50 In stock	 Outlaw Meeble £1.50 In stock	 Penguin Meeble £1.50 Out of stock	 Turtle meeble £1.50 Out of stock
 Frog meeble £1.50 In stock	 German Girl Meeble £1.50 In stock	 German Boy Character meeble £1.50 Out of stock	 Cupid Character meeble £1.50 In stock
 Penguin meeble £1.50 In stock	 Penguin meeble £1.50 In stock	 Penguin meeble £1.50 Out of stock	 Penguin meeble £1.50 In stock

Game components, game bits

https://www.spielmaterial.de/en/

STILL LIVING OR ALREADY PLAYING?

Game components Board games Specials NEW Customized

Game components

- Offer of the month
- Storage cleaning / HAS TO GO
- Dutch auction, reverse auction
- Add for free
- Summer is here - everything for outside

GAME PIECES

- Worldwide novelty 3-part pawn
- CHARACTER-MEEPLES
- Handpainted pawns
- TWINPLES
- Game boards
- Game boxes
- Storage
- Bags, zips
- Playing cards, card boxes
- Play money
- Dice
- Counters / Tiles
- Markers
- Winning points
- Sandtimers and other timing devices
- Starting player
- Tools and labels
- Blank material
- Literature
- Remaining stock, spare parts and second choice
- Miscellaneous material
- Charity Shopping
- Sponsoring

Board games

- NEW Games
- MÜCKE SPIELE
- Upgrade Kits
- AGRICOLA
- CARCASSONNE
- CATAN - all about the Settler universe
- FUNKENSCHLAG
- LORDS OF WATERDEEP
- PANDEMIE

Holiday season

Note that our office is working only part-time until August 20th. Delays are likely.

Interesting items in the shop

Stadt Land Fluss (DEU) €0.99 Details

Set spaceships, space fleet €10.50 Details

Set game pieces Clash of Culture... €11.00 Details

Dates

You will find us at the following conventions:

- SPIEL Essen, Germany October 25th to 28th, 2018
- Spielwies Munich, Germany November 16th to 18th, 2018

Customized production & Wiki

In the horizontal tab at the top of the page, the menu item "Customized" informs about a range of standardized custom products including game boards, boxes, playing cards, counters, game pieces / bits and dice.

Our WIKI informs still more detailed about possibilities of individual production and customization, and provides hints and support on every topic regarding game development and game production.

mixed sets gifts and presents upgrade kits

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# Advanced Components

- 3D printing.
- Laser Cutting.



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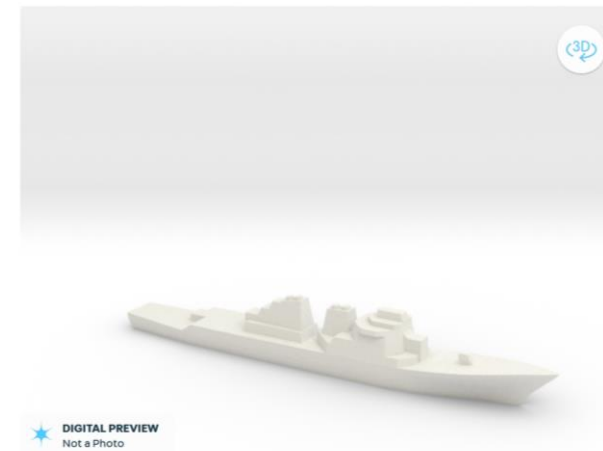
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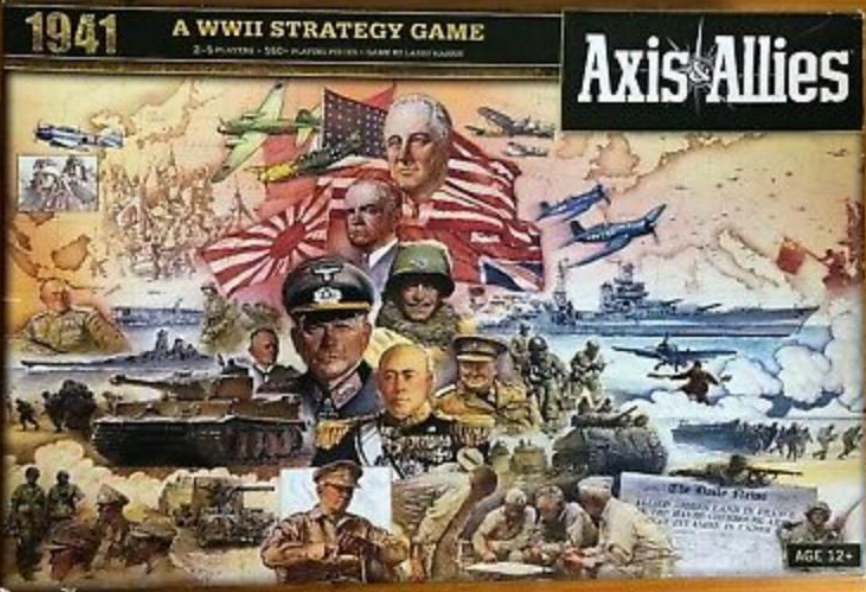
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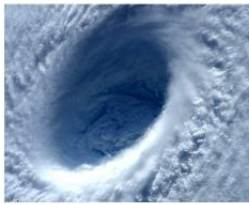








# Money





# Cards

		
Anonymous Hacking Attack	Fishing Dispute	Extreme Weather
		
Native People's Protest	Political Upheaval	Wildlife Protection Agreement
		
Air Disaster	Submarine Accident	De-Extinction Breakthrough



# Laminators and Sleeves



A3  
Entry Width

4  
Rollers



# Corner Punch



# Cheap Custom Dice

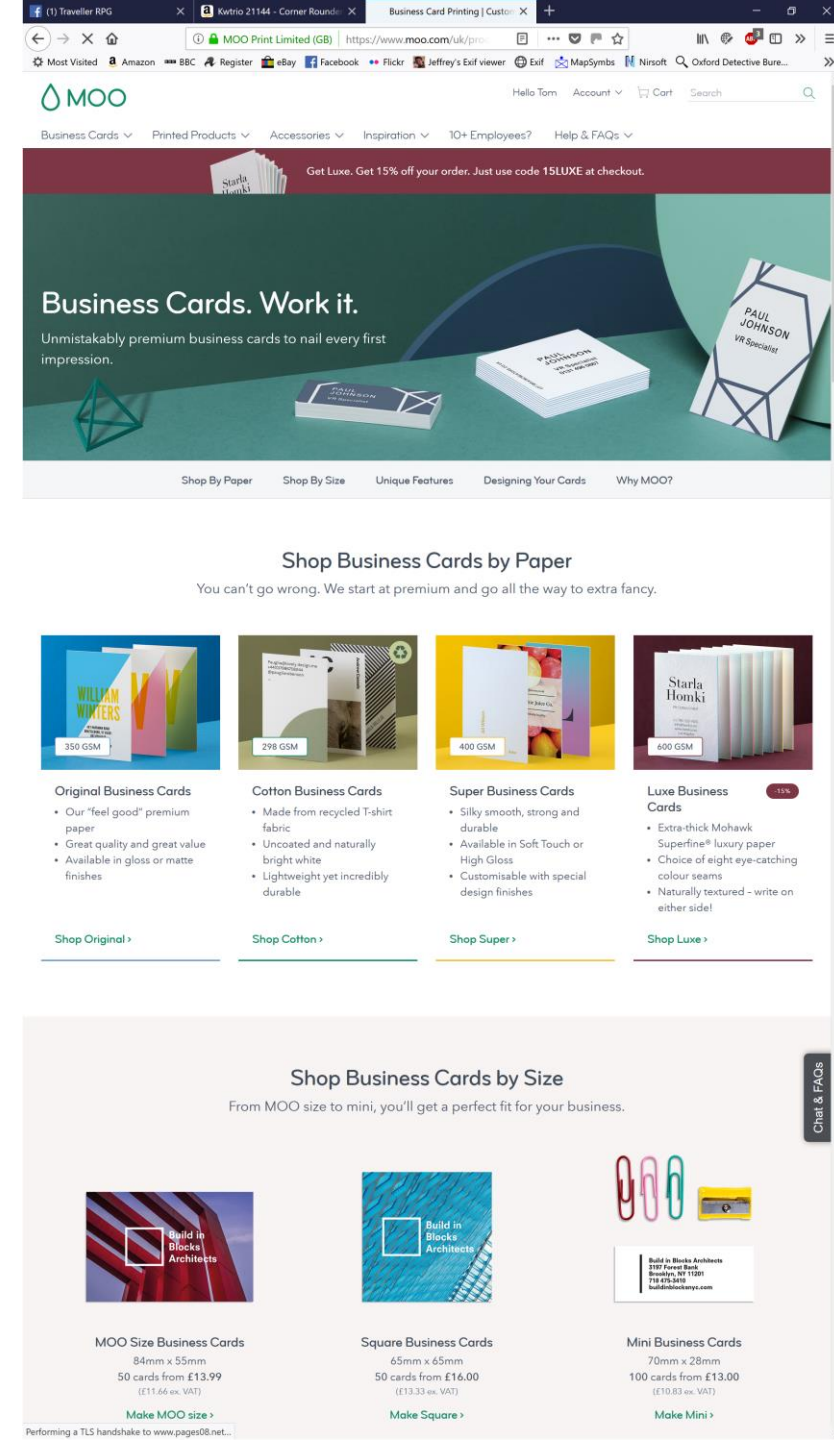
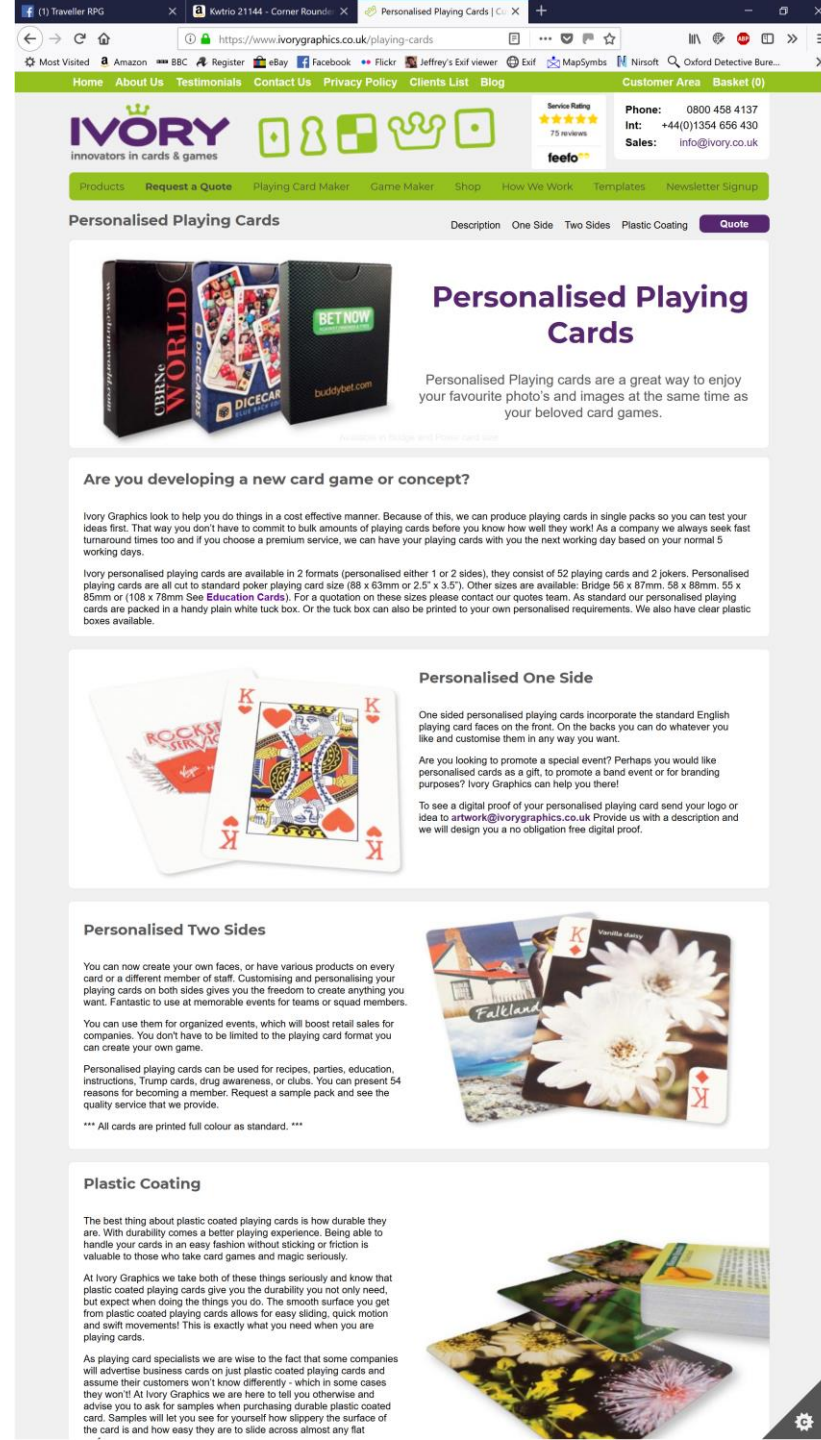




# Expensive Custom Dice



# Cards





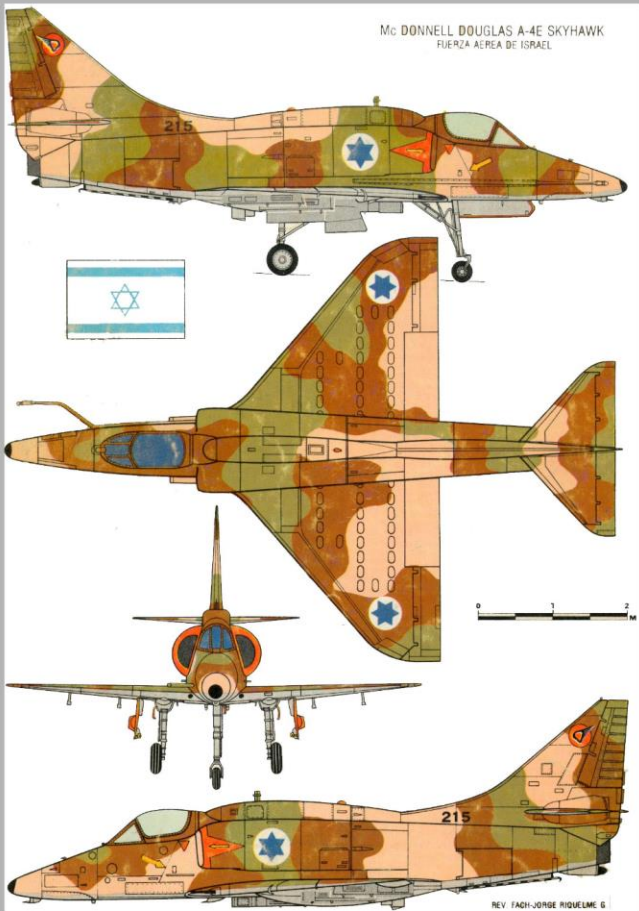
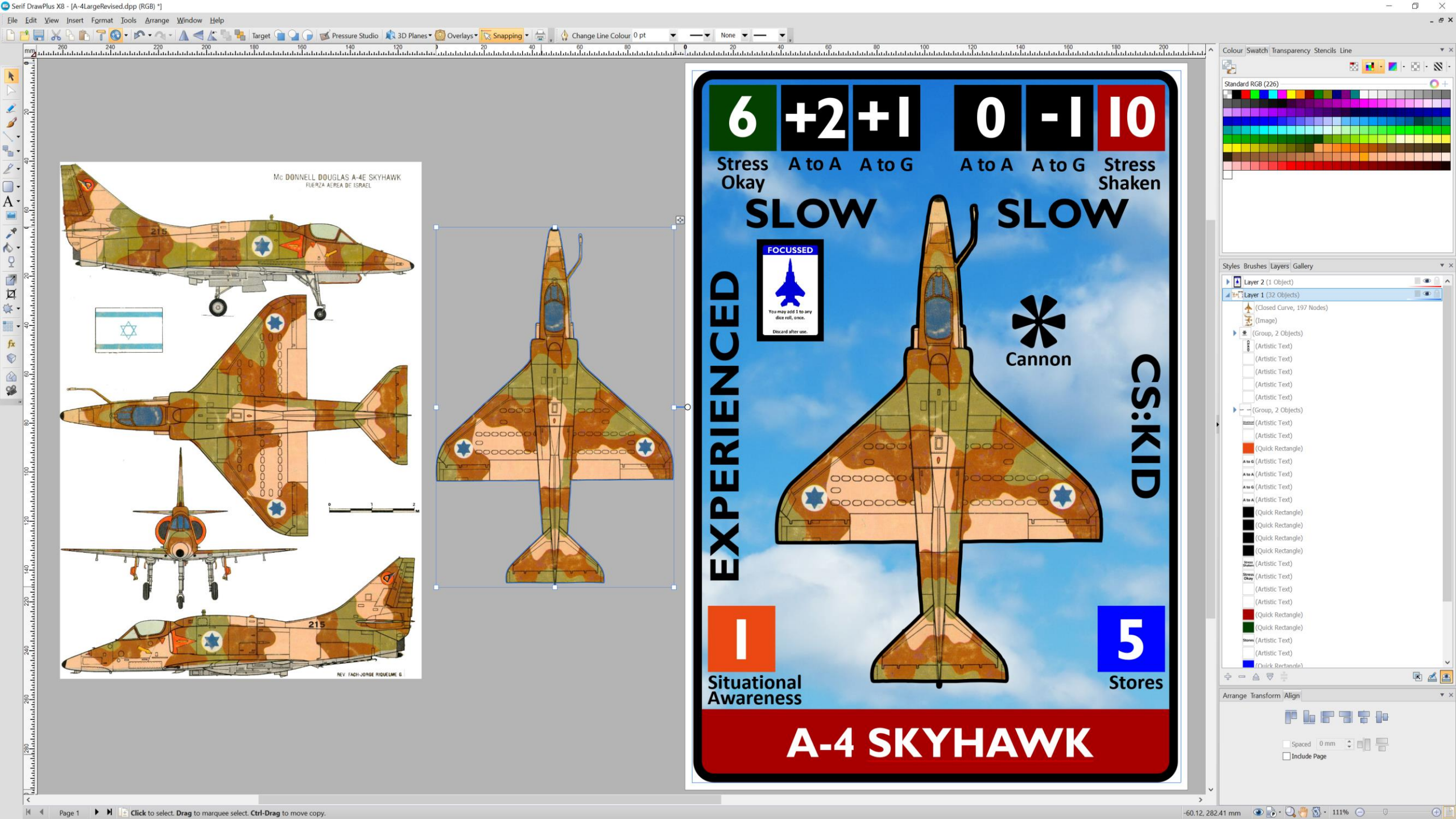
# Mapping



# Software

- Adobe Illustrator (annual licence) (includes Mac).
  - Corel Draw Suite (very expensive, but older versions are cheap).
  - Serif Affinity Designer (£50) (includes Mac)
  - Sketch 3 (annual licence) (includes Mac).
  - Inkscape (open Source) (includes Mac).
  - Gravit Designer (free, portable, cross platform, and via browser).
  - Serif DrawPlus – Legacy Application (£20).
- 
- **WARNING: Software is a personal choice and requires practice.**





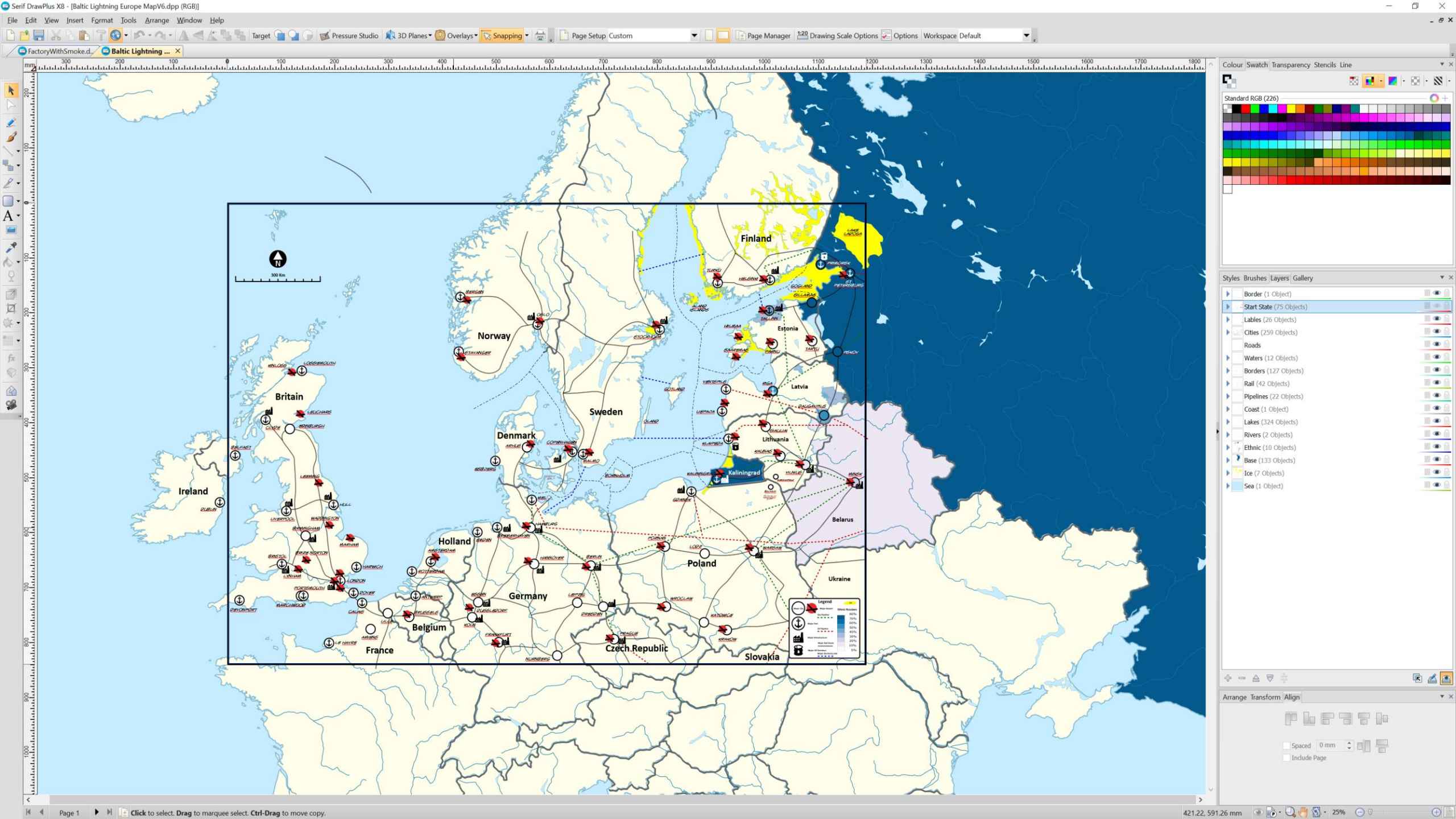


Search results for "europe map svg" on Google. The search bar shows "europe map svg" and the results are filtered by "Images". The first result is "Free Blank Europe Map in SVG" from simplemaps.com. Other results include "European map Free vector in O..." from all-free-download.com, "Europe vector map free free vector ..." from all-free-download.com, and "File:Europe Map.svg - Wikimedia Commons" from commons.wikimedia.org. The search results are displayed in a grid format with various map styles and colors.

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File:Russia in Europe.svg - Wikimedia Commons. The page shows the file name, a description, and a list of related images. The description states: "Deutsch: Lage von XY (siehe Dateiname) in Europa. English: Location of XY (see filename) in Europe." The date is 17 March 2011. The source is "Own work" and the license is "This file was uploaded with Commons." The page also includes a list of related images and a section for "Other versions".









Check out our many other [free graph/grid paper styles](#).

### Calculating various bits about regular hexagons

Given length of a side  $x$ ...

Tip to tip across the hex is  $2x$ .

Height of the hex flat side to flat side is  $2x(\sqrt{3}/4)$  or about  $1.732x$ .

Area of the hex is  $1.5(x^2)(\sqrt{3})$  or about  $2.56x^2$ .

**Example: Making graph paper with 4 hexes per square inch**  
 Hexagon with a side length of  $x$ ... The area of that hex would be about...  
 $2.6 (x^2)$   
 So for 4 hexes per square inch...  
 $4 * 2.6 (x^2) = 1$   
 $x^2 = 1/10.4$   
 $x^2 = .096$   
 $x = .31$  inches per side.

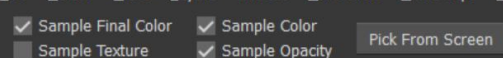
**Extra:** 1 sq. in. per hex  $\approx 0.6204$

### Pregenerated Hexagonal Graph Paper

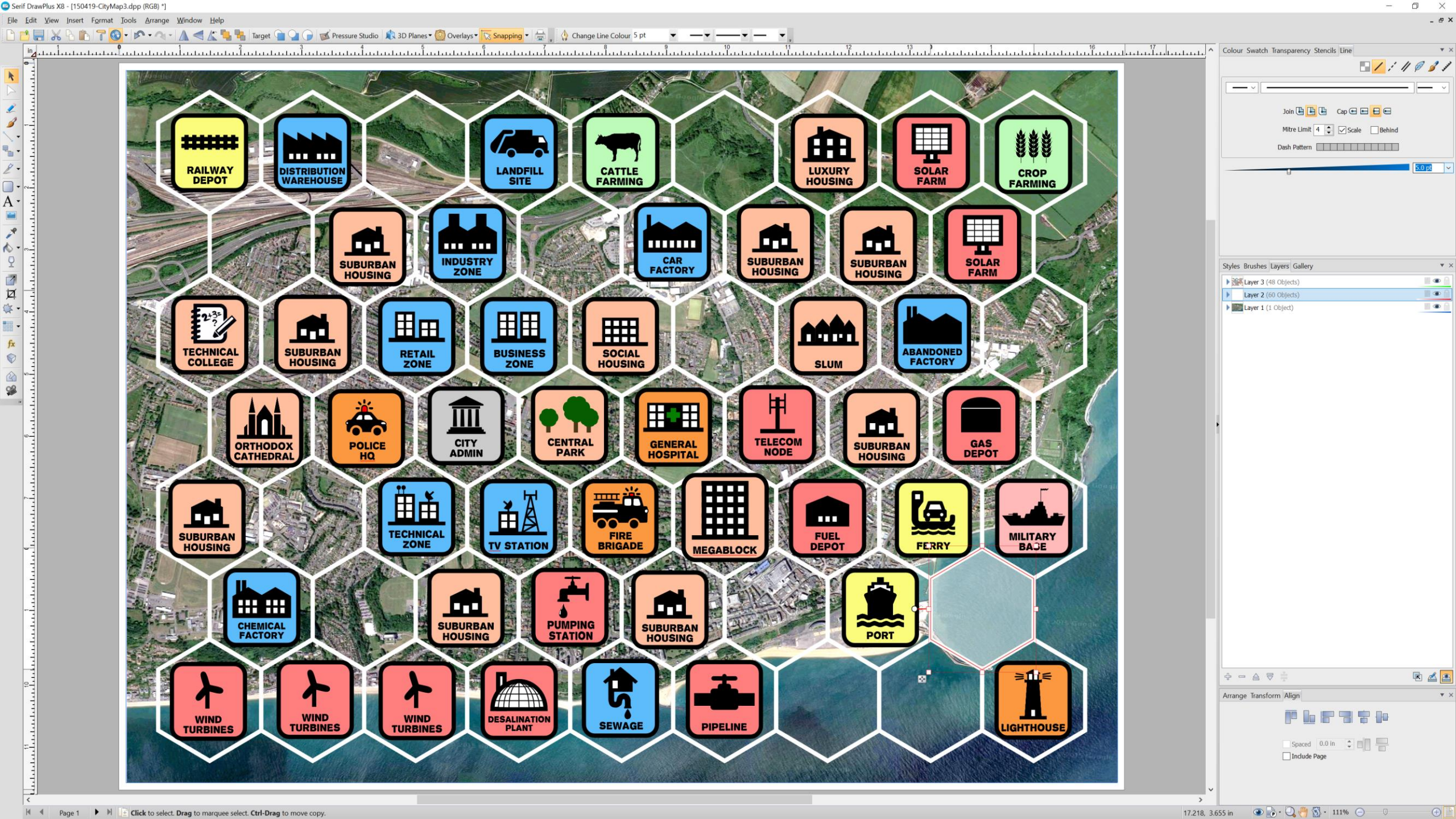


### Customized Output Formats

*Keywords:* loneliness; fear; attachment; personality; individual differences; culture; family; gender; age; ethnicity









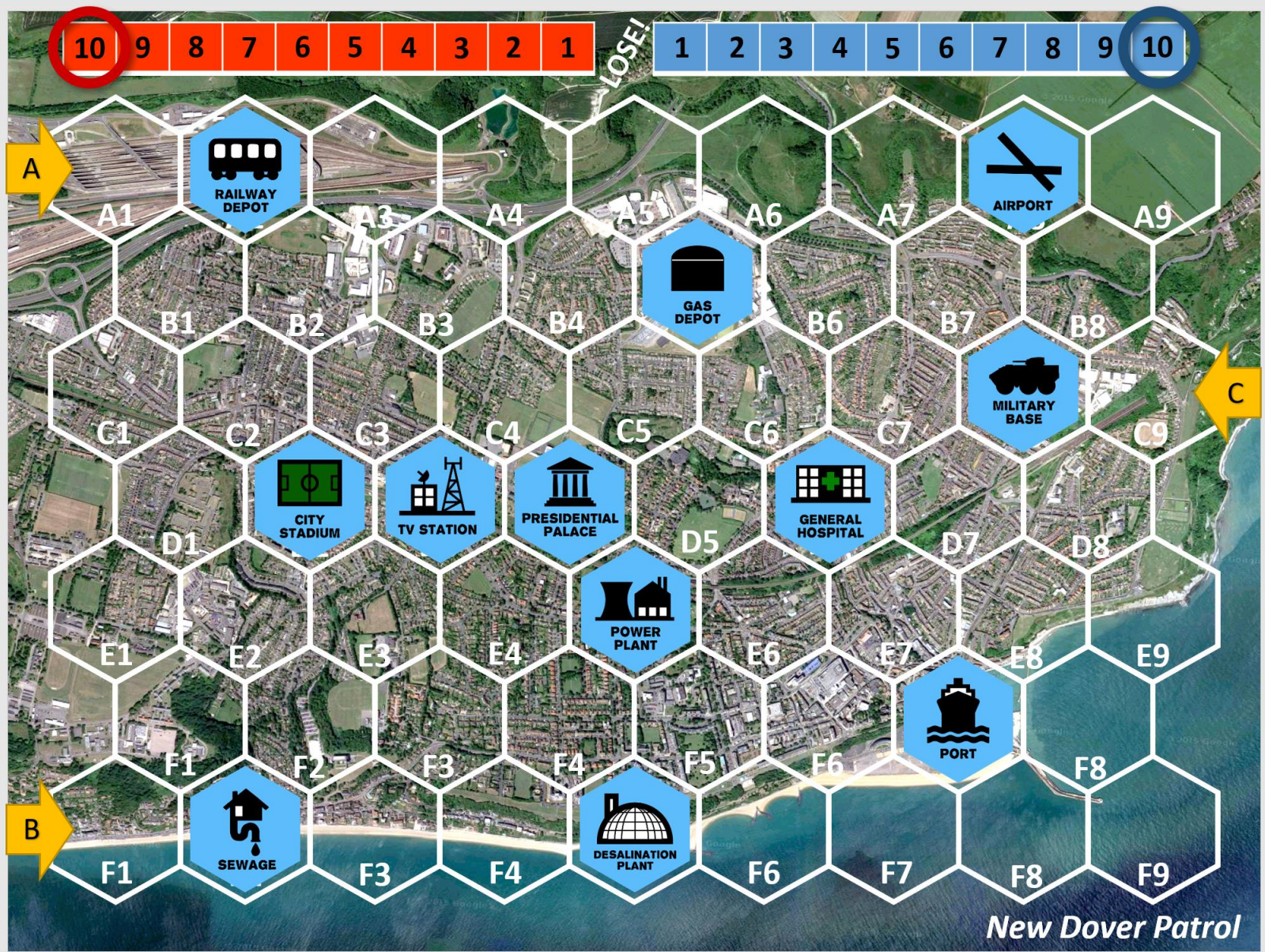
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# PowerPoint



- Sep 8<sup>th</sup>
- Jun 11<sup>th</sup>
- 1 Def Bn
- 2 Def Bn
- 3 Def Bn
- 4 Def Bn
- Attack
- Attack
- Attack
- UN Aid

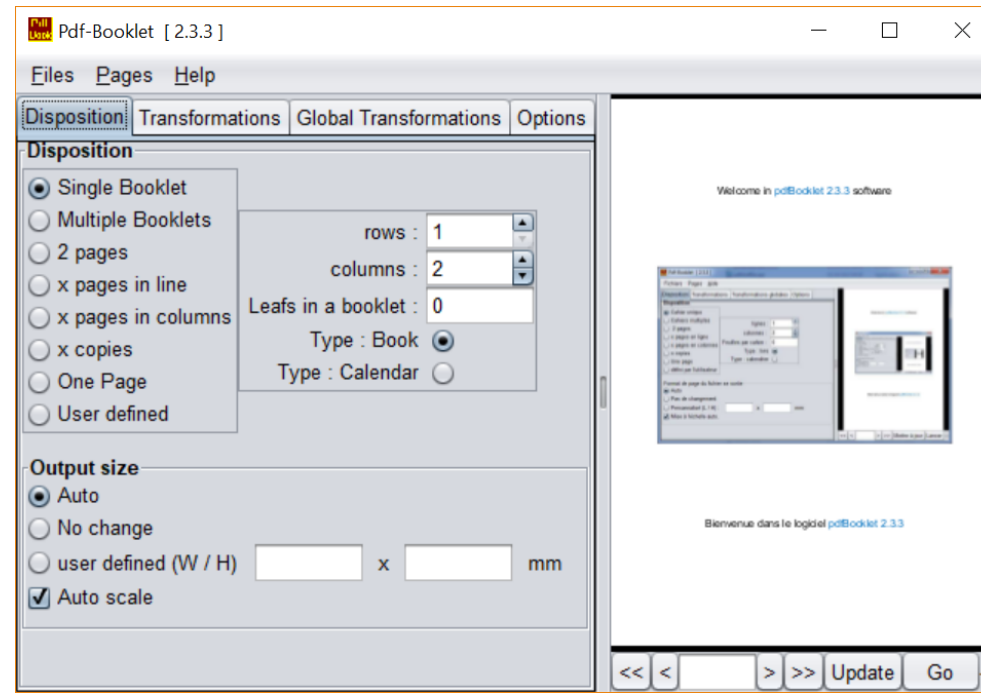


- 17 Inf
- 7 Tank
- Air Recce
- BG1
- BG2
- BG3
- CS BG
- Naval Landing
- Naval Fires
- Naval Tpt
- Marine
- Drone
- Air Strike
- Air Tpt

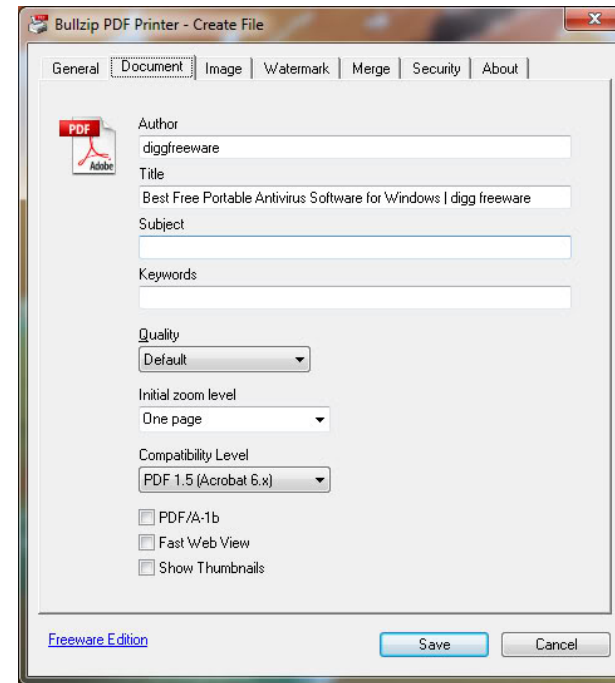


# Software

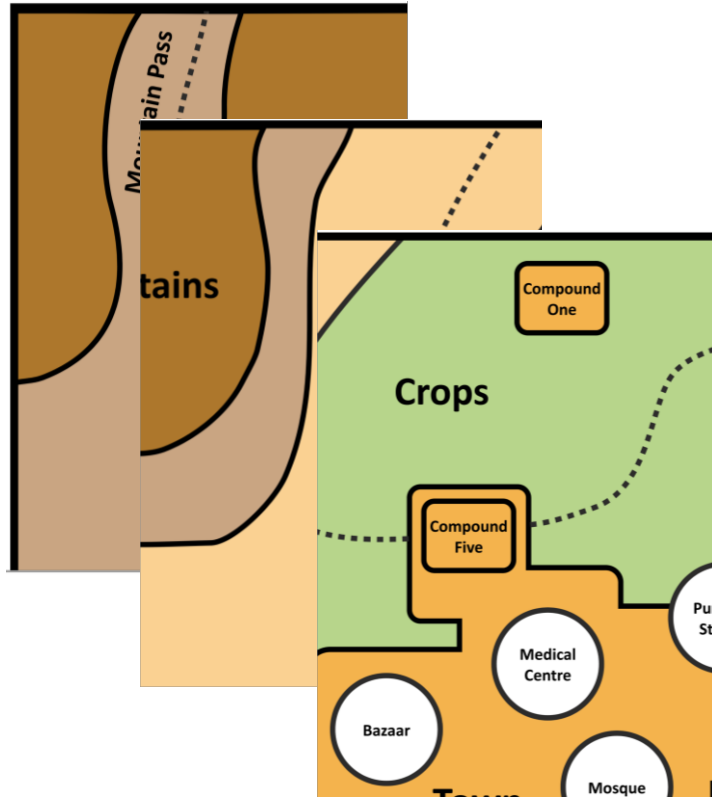
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- Bullzip PDF Printer:



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Delivery information

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### Spec

**Product Summary**

Paper: Waterproof PVC

Quantity: 1

Order and approve your artwork in the next 7hr 2min to receive your print on Wednesday 5th September

Price **£16.00** (includes VAT)

**Add to Basket**

### Production Time

<b>Standard</b> Receive your print on Wednesday 5th September	<b>Express</b> Receive your print on Tuesday 4th September Choosing Express will limit the amount of product options available
--	--

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A0 [View product information](#)

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Size (mm)	841 x 1189
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Printing to back	None
Paper finish	Standard Bond
Paper weight	120gsm
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# Storage and Carrying



You can tell that you are a game designer if...

