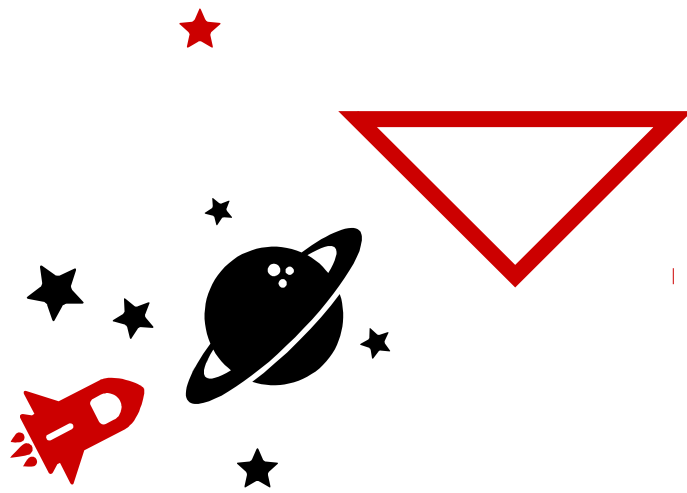




BASIC

INTERPRETER



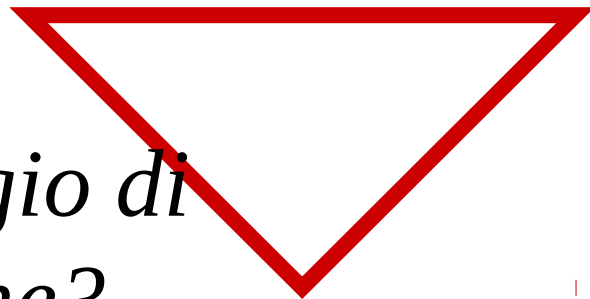


*Un po' di teoria sulla
programmazione*

1

Cos'è un linguaggio di programmazione?

Una rapida introduzione alla
programmazione



“



*Un linguaggio di programmazione è un
linguaggio che permette ad uno sviluppatore di
scrivere programmi sotto forma di istruzioni, più
o meno complicate.
L'insieme delle istruzioni è detto codice sorgente*



Due grandi famiglie di linguaggi



High-level

Sono linguaggi progettati per essere facilmente comprensibili dalle persone

Low-level

Sono linguaggi che contengono istruzioni elementari che definiscono il funzionamento fisico del calcolatore, dando quindi maggior libertà al programmatore



Differenze tra i codici sorgente



Java

```
System.out.println("Hello world!")
```

Python

```
print "Hello world!"
```

Assembly 8086

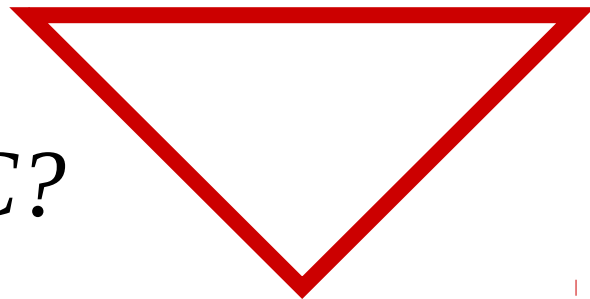
```
DOSSEG
.MODEL TINY
.DATA
TXT DB "Hello world!$"
.CODE
START:
    MOV ax, @DATA
    MOV ds, ax

    MOV ah, 09h
    MOV dx, OFFSET TXT
    INT 21h

    MOV AX, 4C00h
    INT 21h
END START
```

2

Cos'è il BASIC?



Una rapida introduzione al linguaggio di
programmazione

“

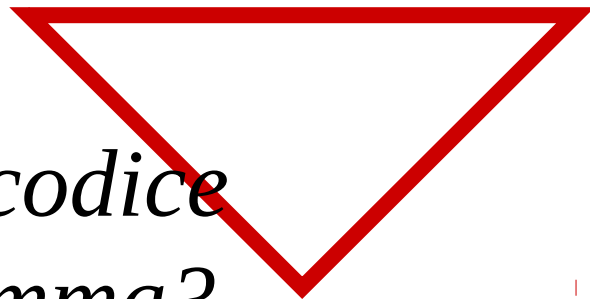


Il BASIC è un linguaggio di programmazione sviluppato da due professori universitari nel 1964. Esso è rapidamente diventato uno dei linguaggi di programmazione più usati, per via della sua semplice sintassi e della successiva diffusione degli home computer

3

*Come si passa da codice
sorgente a programma?*

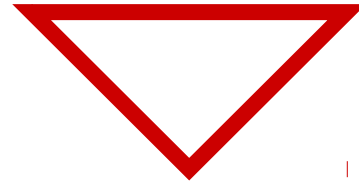
Compilatori e interpreti



“



*Il passaggio dal codice sorgente al programma
avviene attraverso dei programmi detti
compilatori o interpreti*



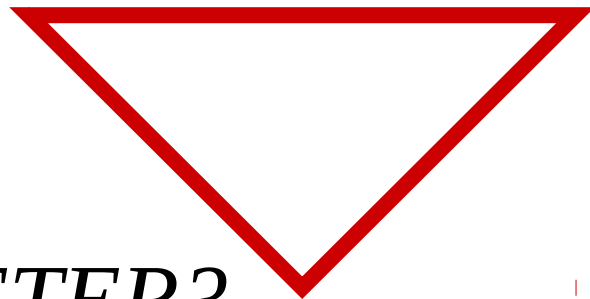
Compilatore

Un compilatore traduce il codice sorgente in codice macchina creando un programma eseguibile che possiamo aprire quando vogliamo

Interprete

Un interprete invece esegue direttamente il programma a partire dal codice sorgente

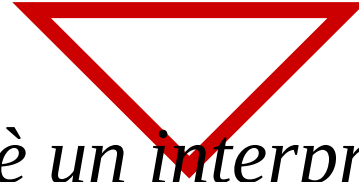
3



Cos'è quindi il BASIC INTERPRETER?

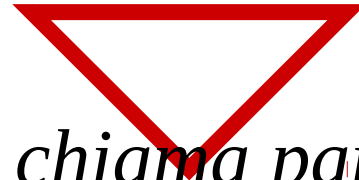
Una rapida introduzione al linguaggio di
programmazione

“



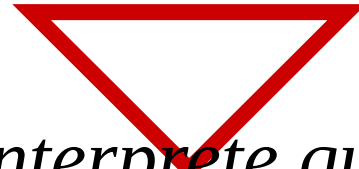
*Il BASIC INTERPRETER è un interprete del
linguaggio di programmazione BASIC che ho
scritto usando il linguaggio di programmazione
JAVA*

“



Esso fa uso di una tecnica chiamata parsing o analisi sintattica, che analizza un flusso di dati, in questo caso il codice sorgente, e lo suddivide in parti chiamate token che vengono a loro volta analizzate ed eseguite

“

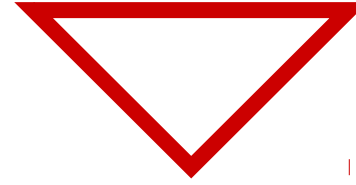


Ecco come si presenta l'interprete quando eseguito

```
java -jar Basic_Parser.jar
Benvenuto nell'interprete Basic.
Potrai iniziare a scrivere i comandi seguendo questa sintassi:
[NUMERO LINEA] ISTRUZIONE
Per avviare l'esecuzione del programma scritto, scrivere RUN e premere invio.
Per una guida alle istruzioni che si possono usare, scrivere GUIDE e premere invio.
Per uscire dal programma scrivere Q e premere invio.

Free memory: 65536 bits
Ok.
```

“



CODICE

INTERPRETE

PROGRAMMA



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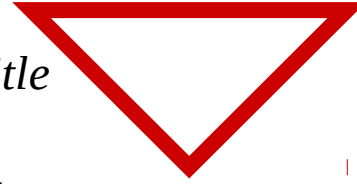
I am Jayden Smith

I am here because I love to give presentations.
You can find me at @username



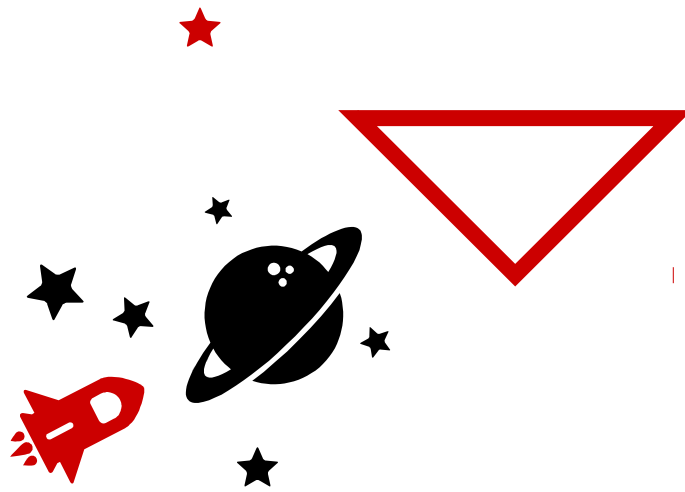


This is a slide title



- ◆ Here you have a list of items
- ◆ And some text
- ◆ But remember not to overload your slides with content

You audience will listen to you or read the content, but **won't do both.**

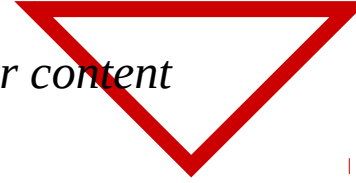


Big concept

Bring the attention of your audience over a
key concept using icons or illustrations



You can also split your content



White

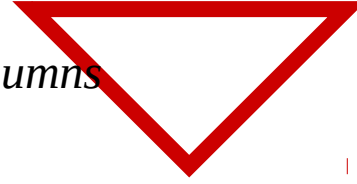
Is the color of milk and fresh snow, the color produced by the combination of all the colors of the visible spectrum.

Black

Is the color of coal, ebony, and of outer space. It is the darkest color, the result of the absence of or complete absorption of light.



In two or three columns



Yellow

Is the color of gold, butter and ripe lemons. In the spectrum of visible light, yellow is found between green and orange.

Blue

Is the colour of the clear sky and the deep sea. It is located between violet and green on the optical spectrum.

Red

Is the color of blood, and because of this it has historically been associated with sacrifice, danger and courage.



A picture is worth a thousand words

A complex idea can be conveyed with just a single still image, namely making it possible to absorb large amounts of data quickly.

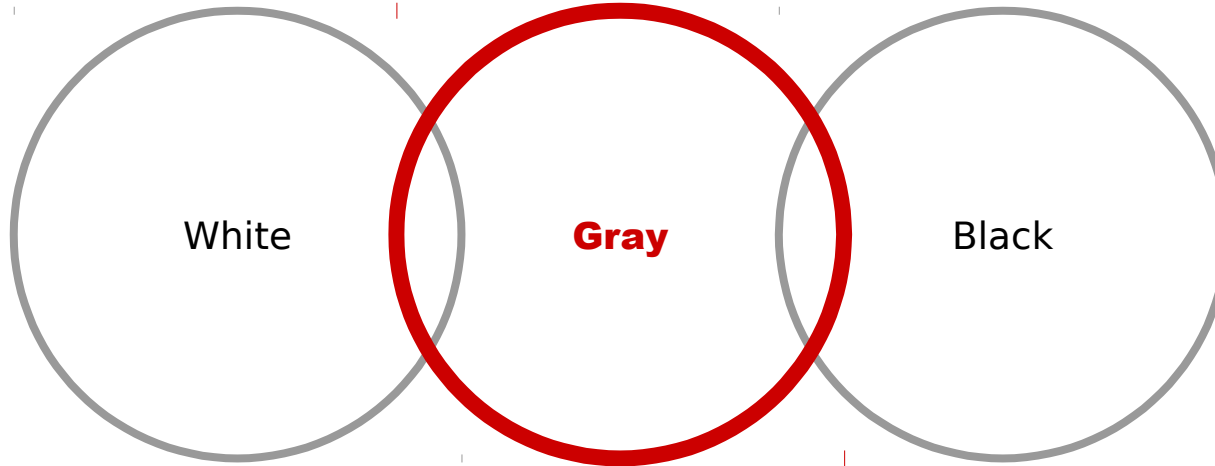
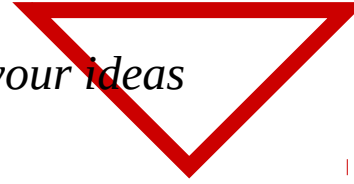




*Want big impact?
Use big image.*

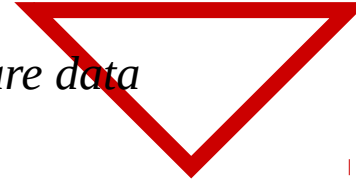


Use charts to explain your ideas





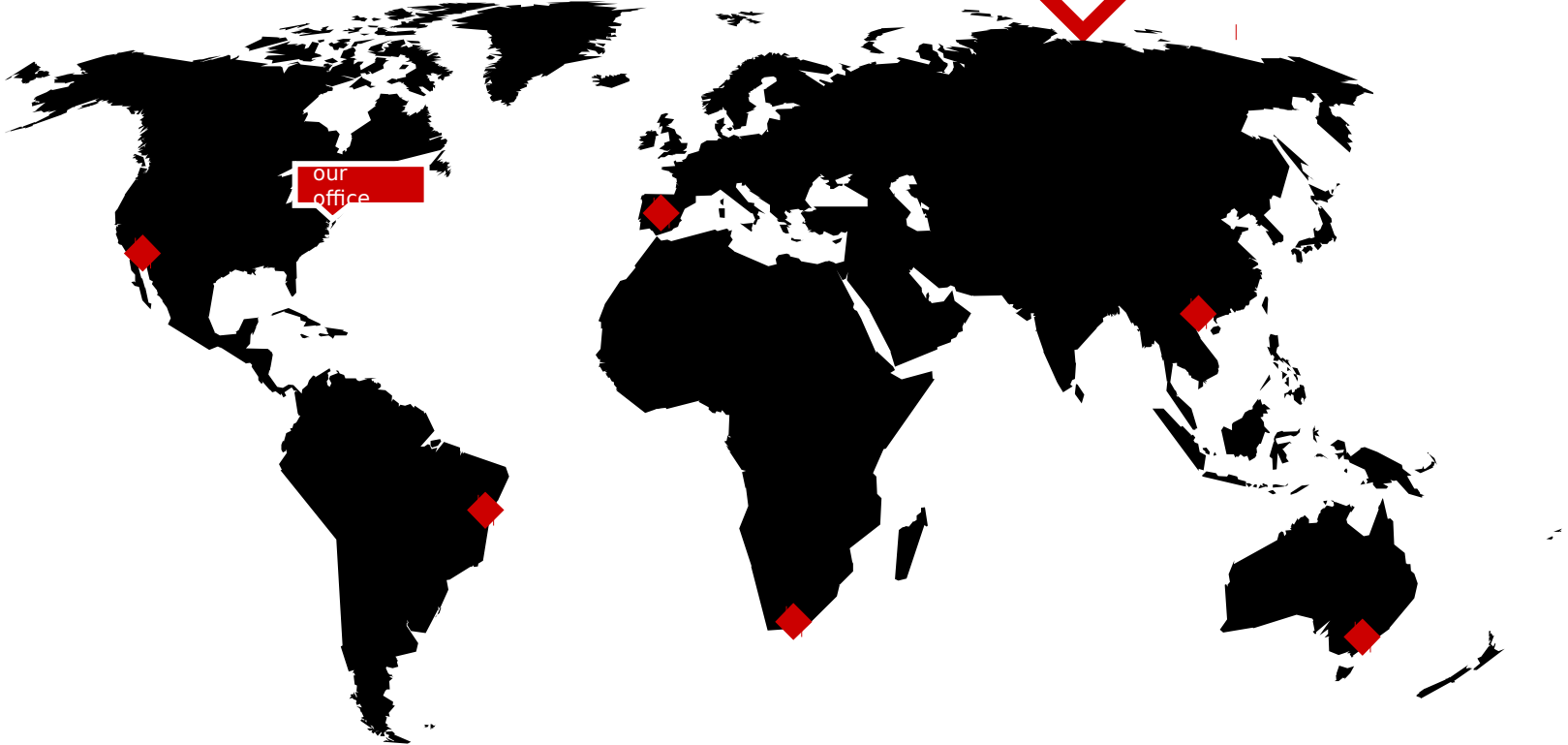
And tables to compare data

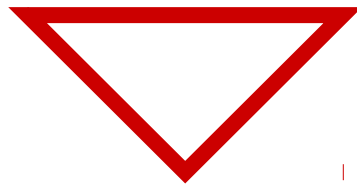


	A	B	C
<i>Yellow</i>	10	20	7
<i>Blue</i>	30	15	10
<i>Orange</i>	5	24	16



Maps





89,526,124

Whoa! That's a big number, aren't you proud?



89,526,124\$

That's a lot of money

185,244 users

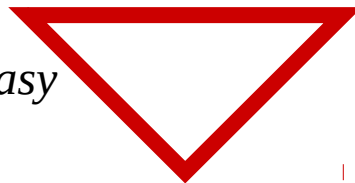
And a lot of users

100%

Total success!



Our process is easy



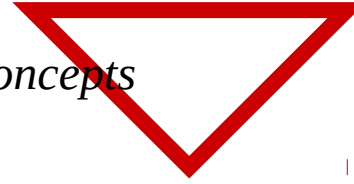
first

last



second





Let's review some concepts

Yellow

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Blue

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Red

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Yellow

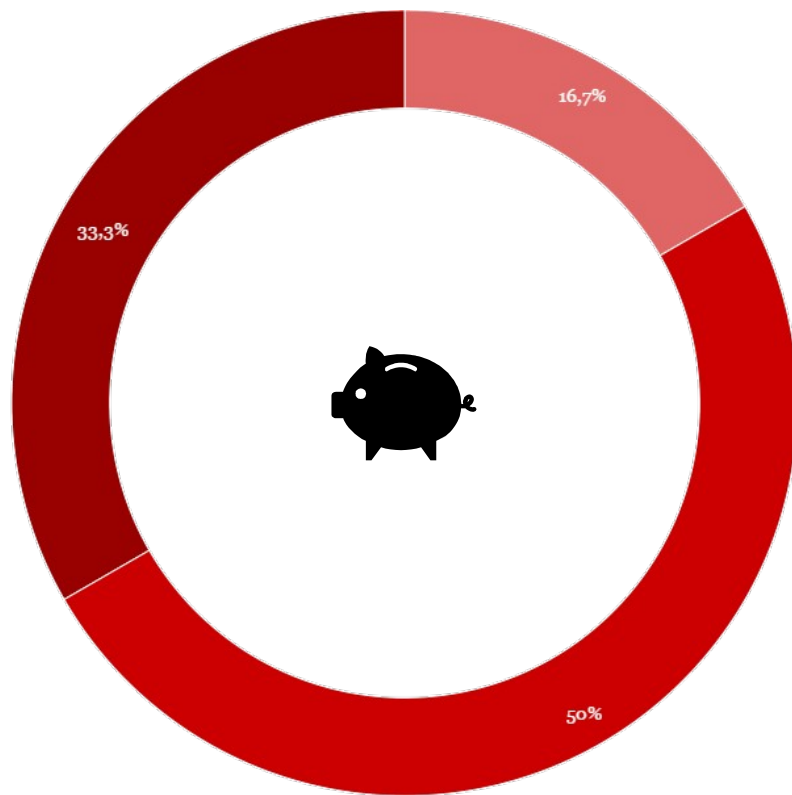
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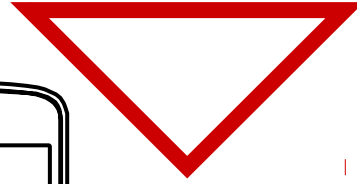
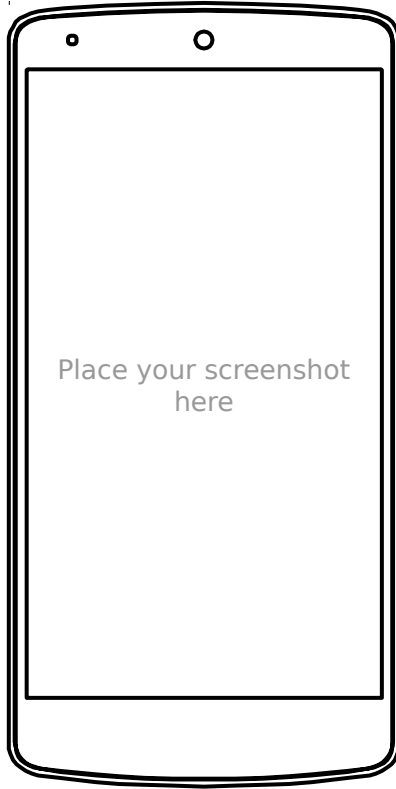
Is the color of blood, and because of this it has historically been associated with sacrifice, danger and courage.



You can copy&paste graphs from
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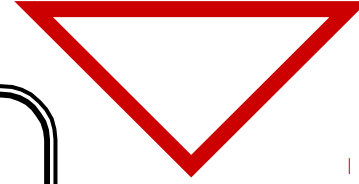
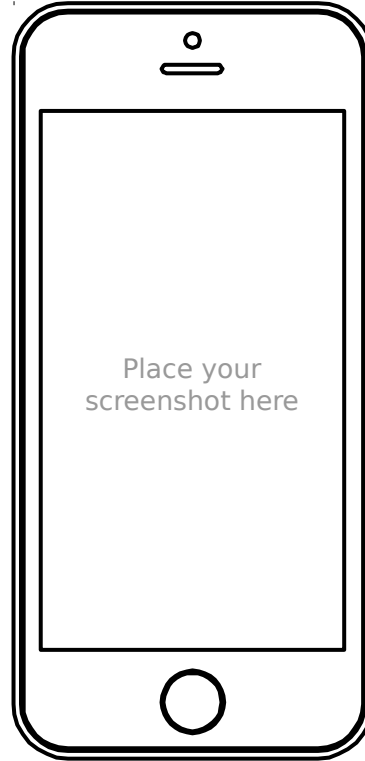


Android project



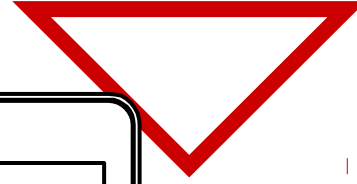
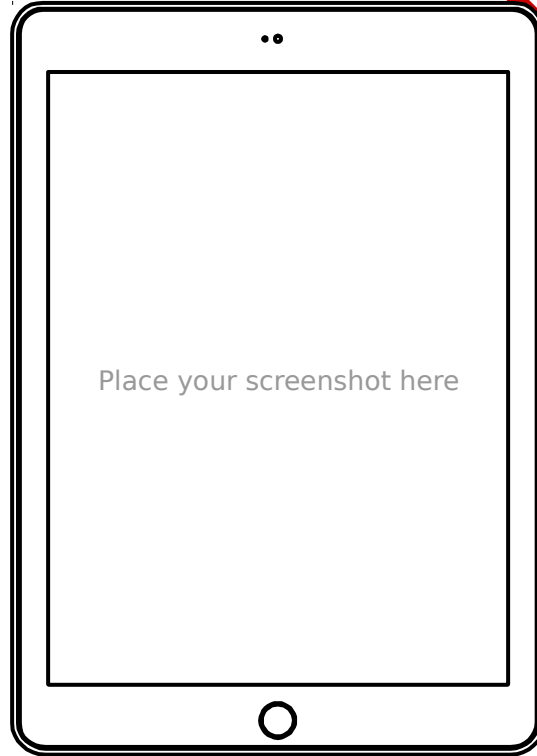
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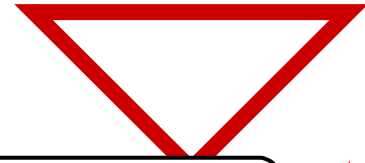


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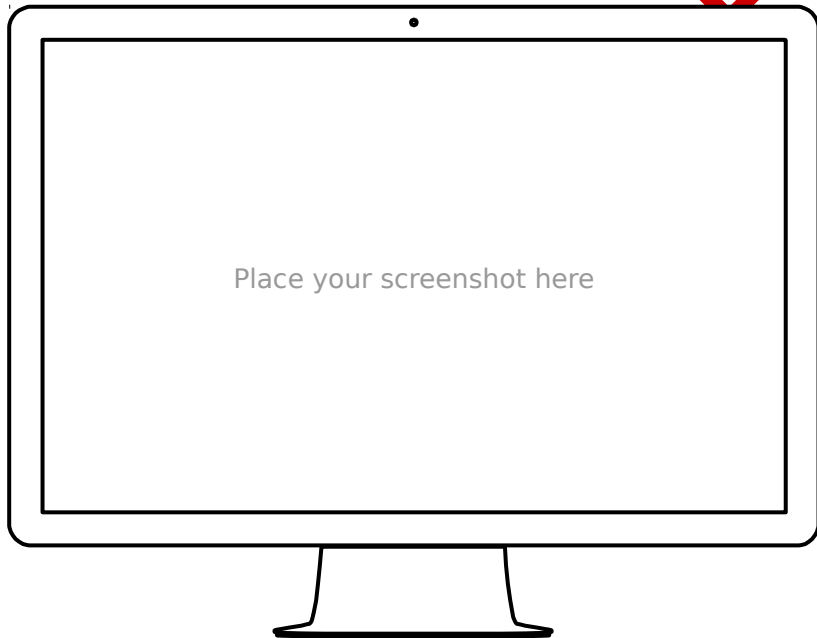
Tablet project



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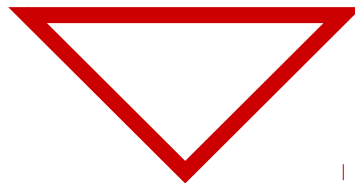
Desktop project



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Thanks!

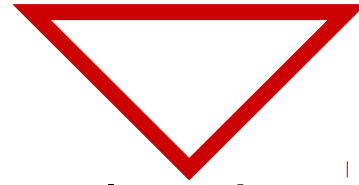


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Credits

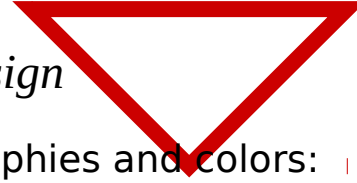


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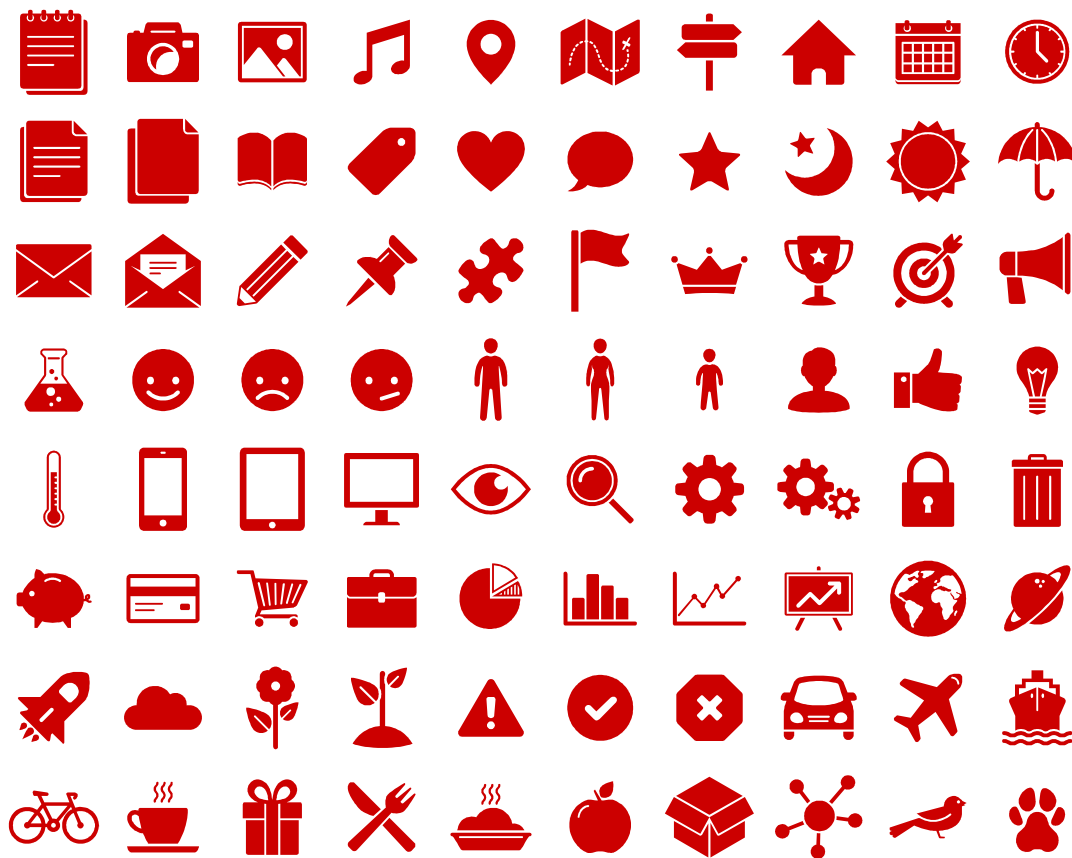
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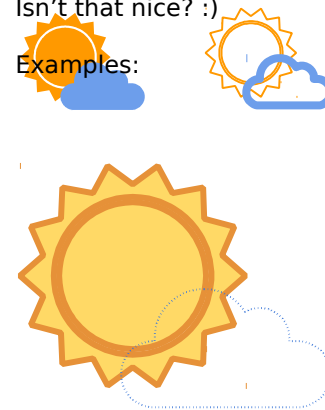
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