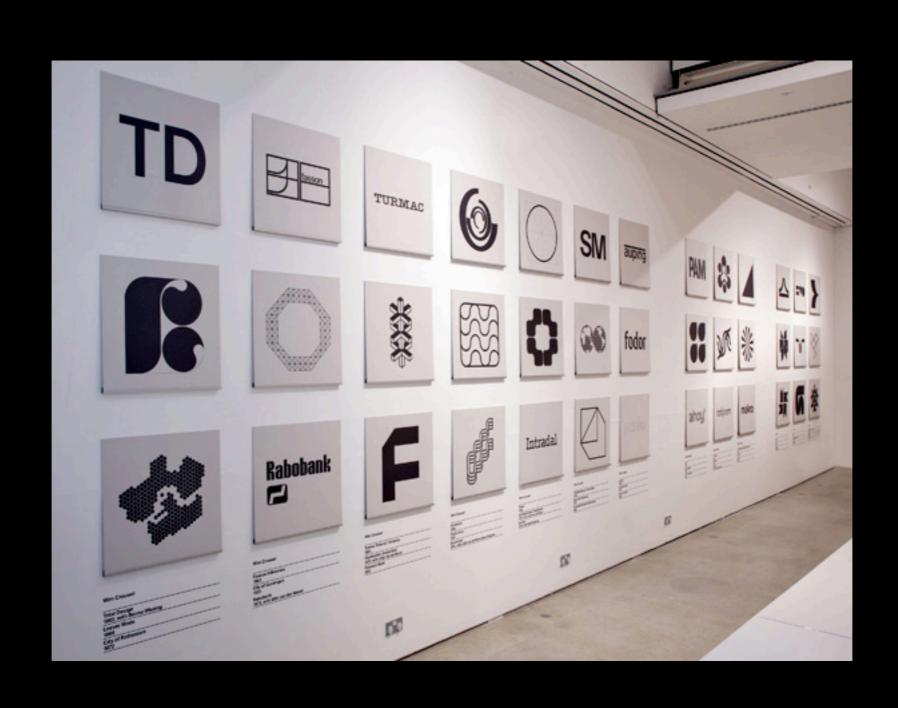
Icon Design

UI Needs Icons



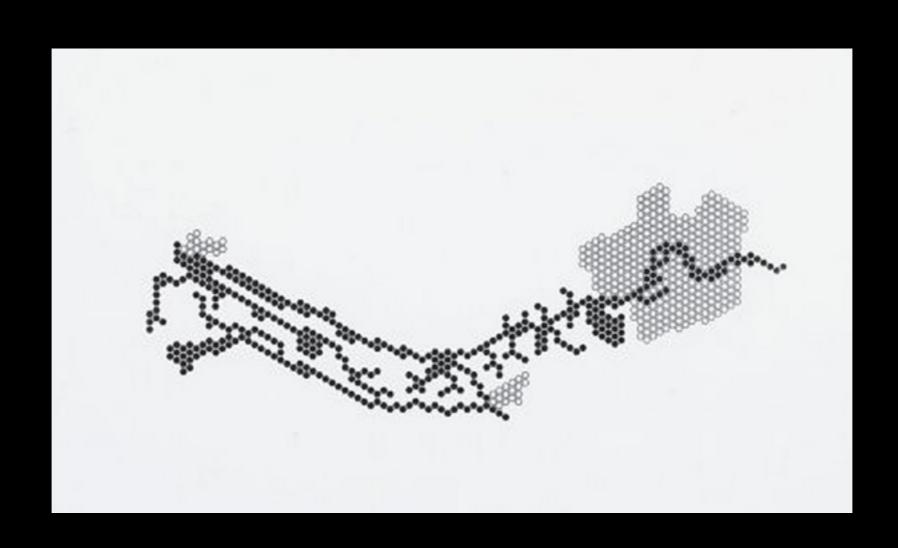
Wim Crouwel - De Stijl



Methodical Thinking

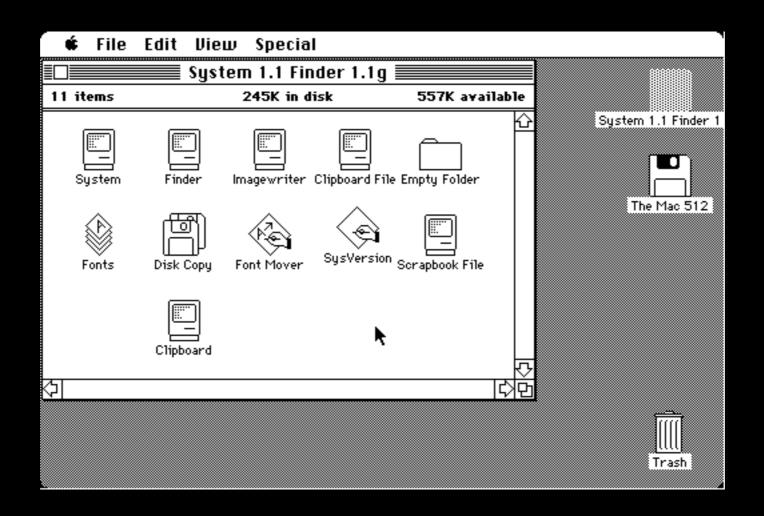


Methodical Thinking



Mac Desktop

One of the first icon based UI's



Photoshop



The first Photoshop User Interface

Why Ul Needs Icons

- UI needs ordering
 - text alone isn't scannable
- Icons need no translation
 - cultural differences
- Color, shape and position help recognition
- Icons are good buttons
- Icons save Space
- Icons support brand identity

Ul's needs ordering

Text alone isn't scannable.

Icons are used as unique bullet points to guide the way through a User Interface.

Just using bullet points is not the answer to save yourself work, Users look at Color, Shape and Position to remember where they are, even if they don't actively understand the icon, so unique icons are important.

Icons need no translation

Icons do need translation...

but a limited amount of icons can be learned and understand by using Context and Metaphors.

Using real world metaphors is at the heart of making good icons. The cloud is a good example of something that has become **UNIVERSALLY UNDERSTOOD** because it relates to the physical world.

Abstract icons are risky if you are the only one using it. At TomTom we tried to use something for our service HD-TRAFFIC, this was not understood well, but through the context in which it was used users learned it. (The context was connectivity)

Universally Understood Icons are rear, when available use them never reinvent the wheel, this add's confusion

Icons are good buttons

Icons are through their square shapes efficient buttons, especially for finger operated devices, but they also work well for most other types of User Interfaces, see the Photoshop example.

In some interfaces this is paramount, in cars for instance tiny hit area's are not allowed in UI's through EU guidelines. Big Simple Icons that are easily recognised and don't need to be read (reading costs time and effort) are paramount in an environment where the user has very little time.

Because icons are square, they are more space effficient, ideal for status updates and notifications.

Branding

TomTom Navigation





Branding

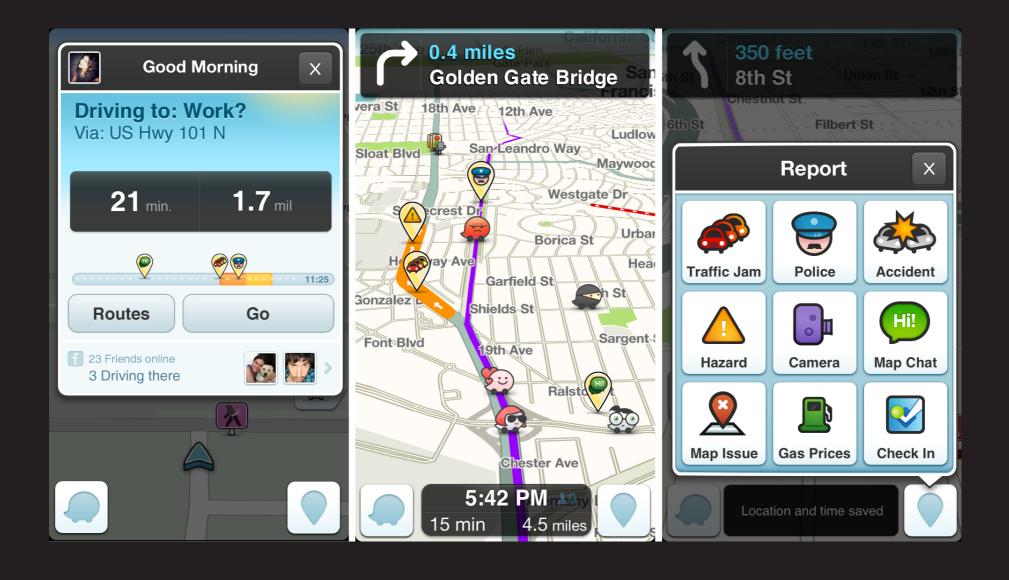
Garmin Navigation





Branding

Wayz Navigation



When icons are mis-used

- Icons don't replace text
- Few icons are universally understood
- New icons need to be tested and learned
- Don't re-invent the wheel, use standards

Understanding icons

Even though icons are often well recognised, they are often not well understood. When you introduce an icon substitute it with a text label.

Icon only is recognised 66% of the time.

Icon + text labels are recognised 88% oft the time.

Unknown icons are recognised only 34% of the time

Cultural differences

Some icons are difficult too use in different cultures. In the USA icons are generally less well understood. Also colours are used less, and txt is more prevalent. This is especially obvious in traffic signs.

In Asia, Hierarchy is much less apparent, compared to European design. Everything must be colourful and overly present or else it won't used.

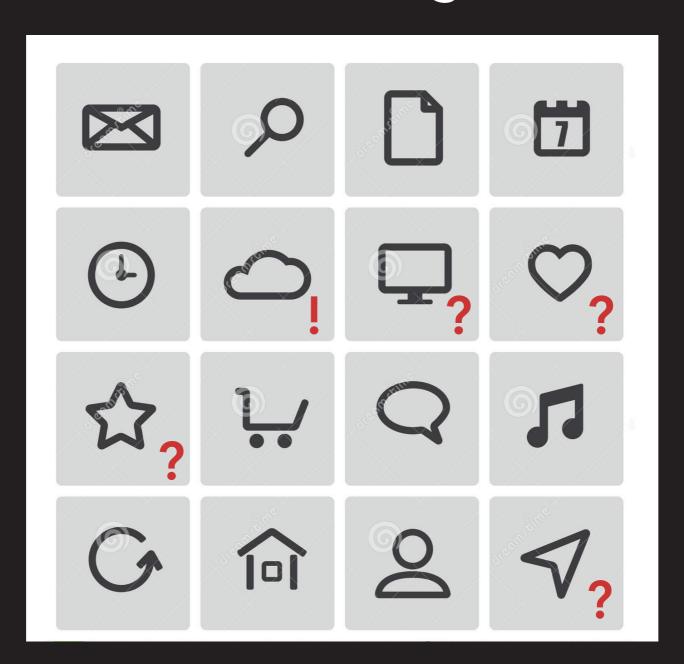
First things come to mind

Don't re-invent the wheel, often the most obvious things are the best.

Use the 5 second rule to find out what the best metaphor is.

If you don't know yourself, ask around what peoples first associations are, keep is short. if more then 2 people have the same association that will be probably be the best idea.

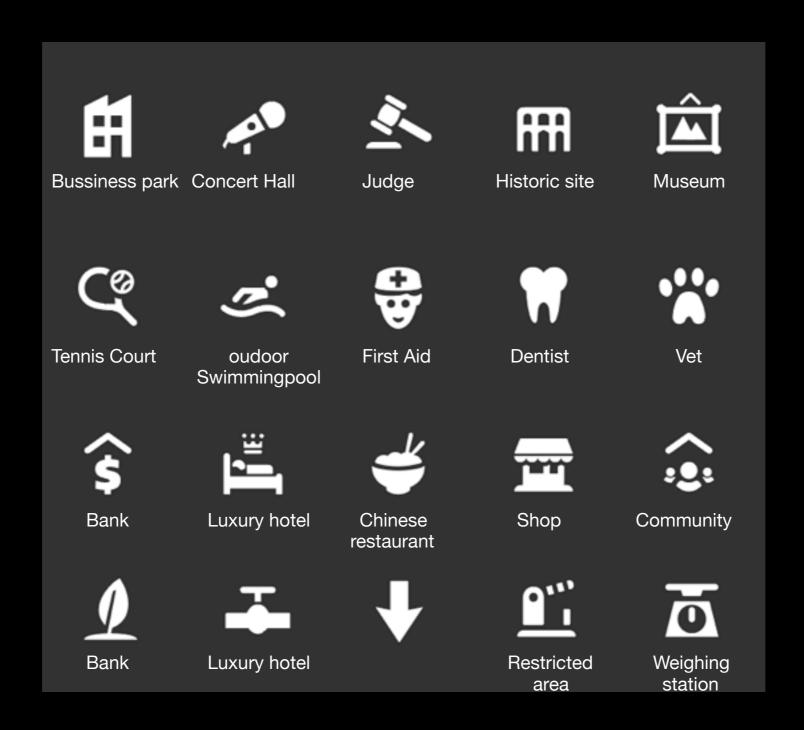
Understanding icons



What's this icon?



What's this icon?



Test Attractiveness

Attractiveness Methods

Besides testing for recognition, icons should also be tested for **attractiveness**, both individually and as part of an icon family. One of the common reasons to use icons in the first place is to add visual appeal to a design, but not all icons are equally good-looking.

The simplest attractiveness test is to ask people to score each icon on a 1–7 scale. (test attractiveness overall and for brand alignment)

If you have alternative designs of the same icon, you can also ask people to pick the most attractive from each set of alternatives and explain why they like or dislike particular images.

Finally, you can show people an entire icon family and ask them to pick out the one they like the best and the least. This last test can help you avoid the common problem where most of your icons are fine, but there are one or two less attractive ones that require a do-over to better match the aesthetic of the full design.

Quick Sketching



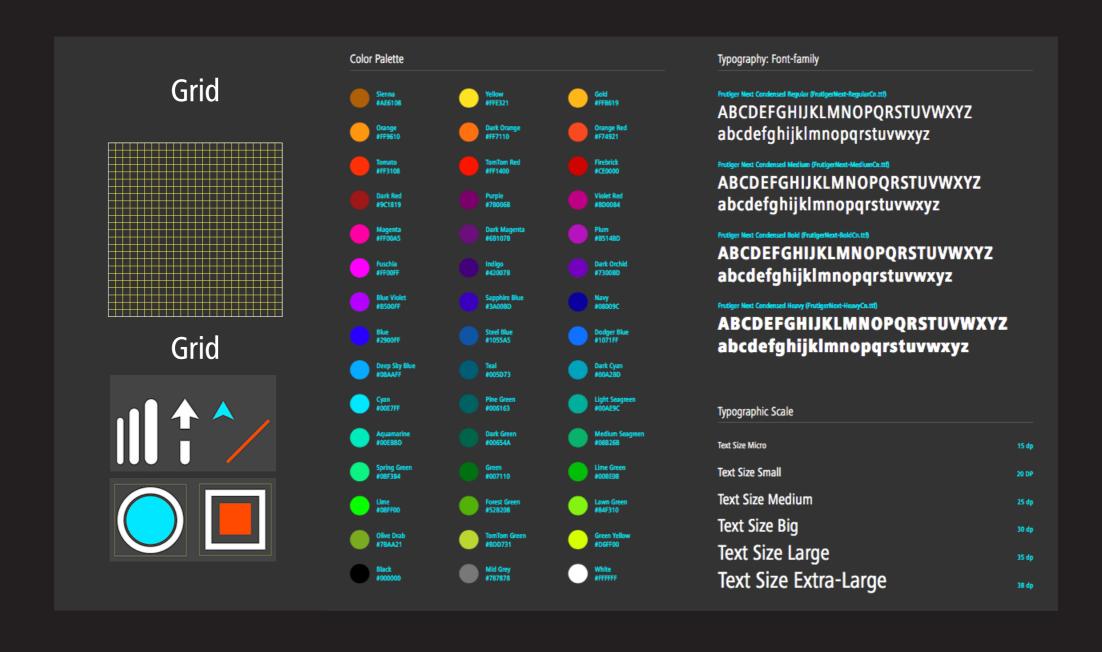






Work with what's given

Control Icons



Types of Icons

- Menu/Dashboard Icons
 (Introducing functionality's, guiding to specific screens)
- 2. Control icons
 (Notification, play, next, submit)
- 3. Map Icons (on any background)
- 4. List Icons



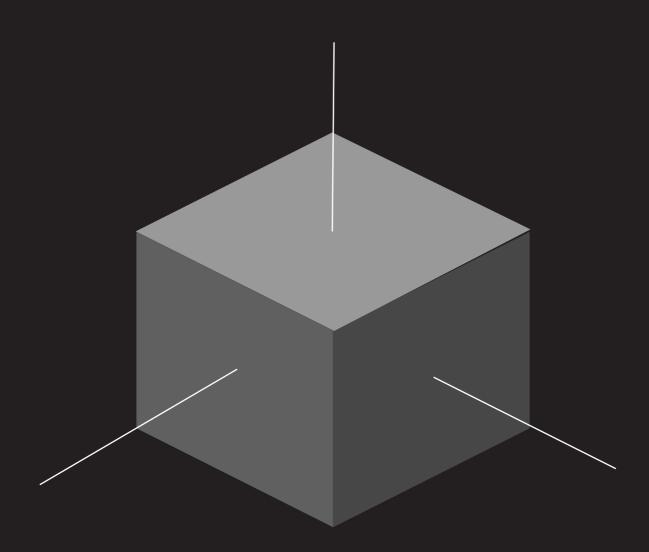
Typesof icons

cds

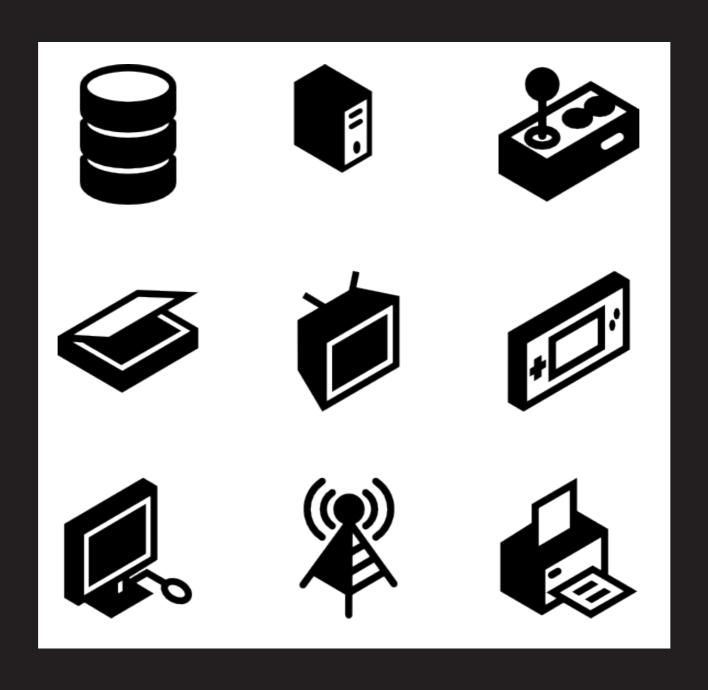
Styles

- Skeuomorphism (semi-real)
- Isometric
- Flat (Windows Metro)
- Comic / Gaming / 3D

Isometric



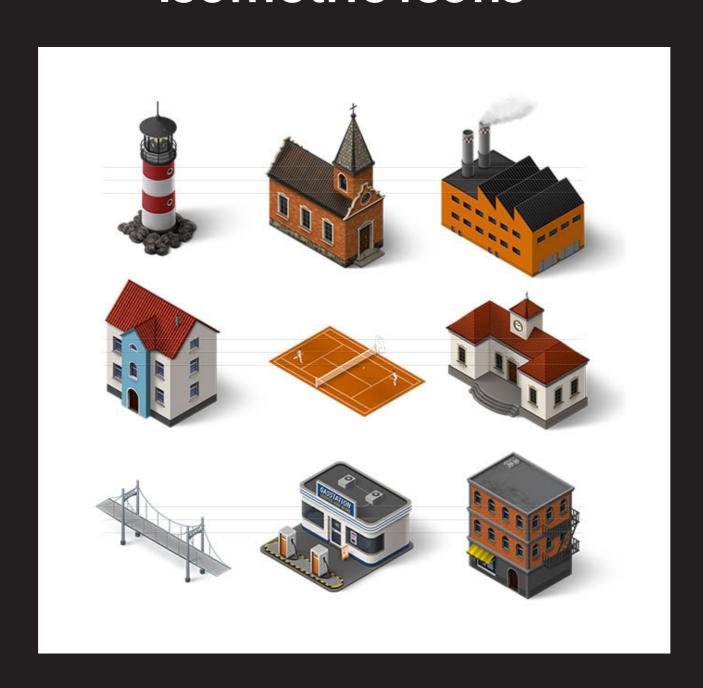
Isometric icons



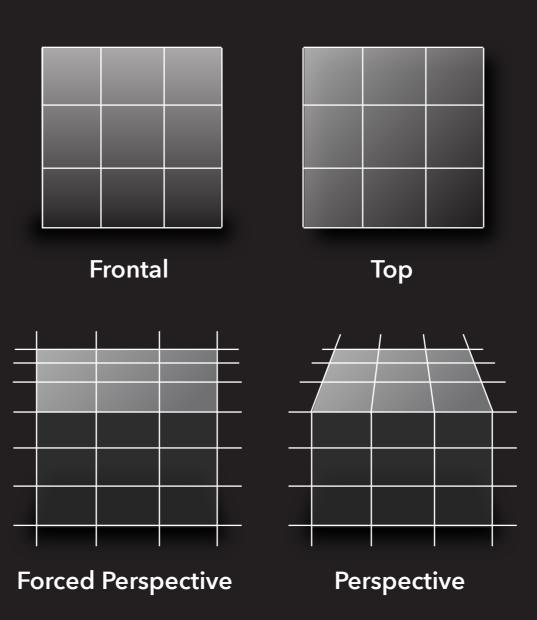
Isometric icons



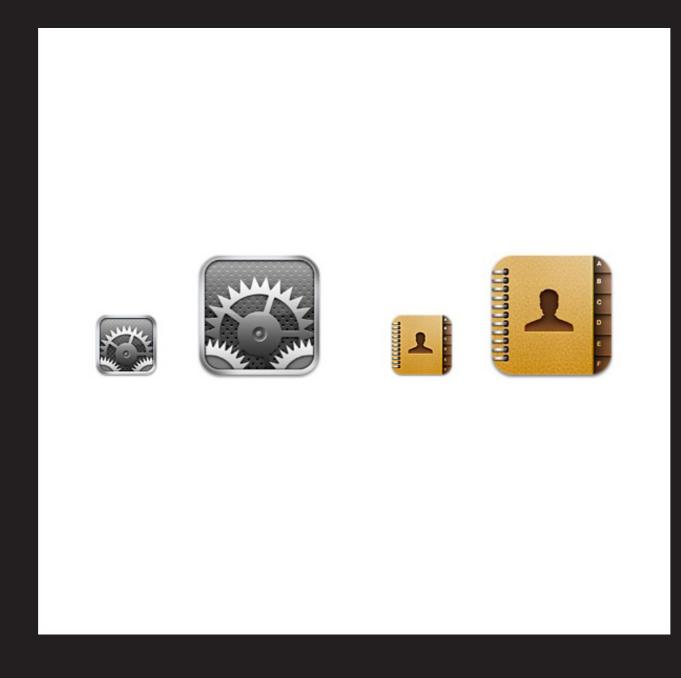
Isometric icons



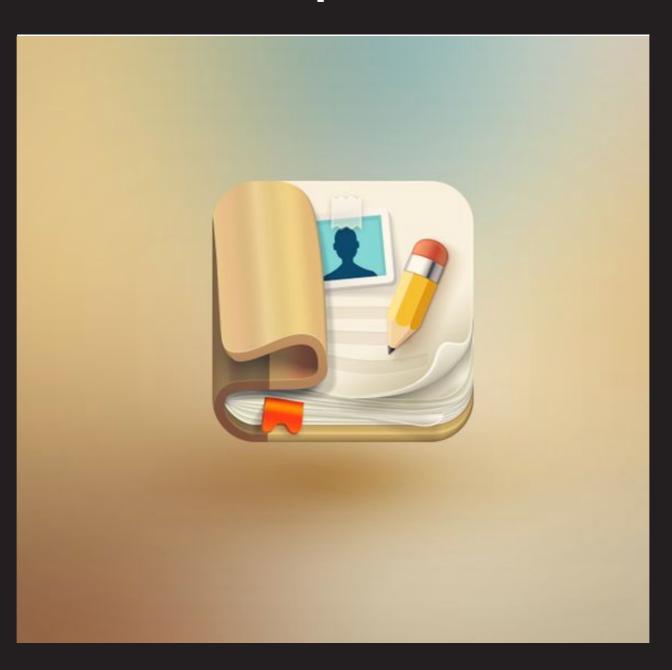
Skeumorphism



Skeumorphic icons



Skeumorphic icons



TomTom Menu Icons

A series of icons created for TomTom inspired upon the then going style of icons for the Iphone IOS and expanded, developed and managed further by me for several TomTom navigation products.



















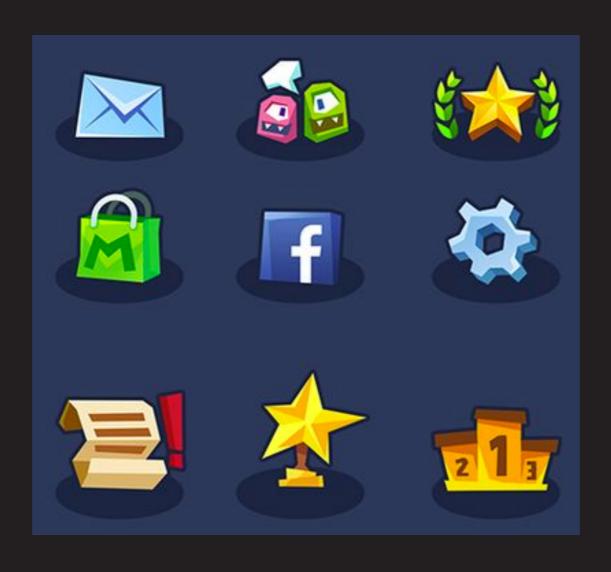
Skeumorphic UI



Various styles



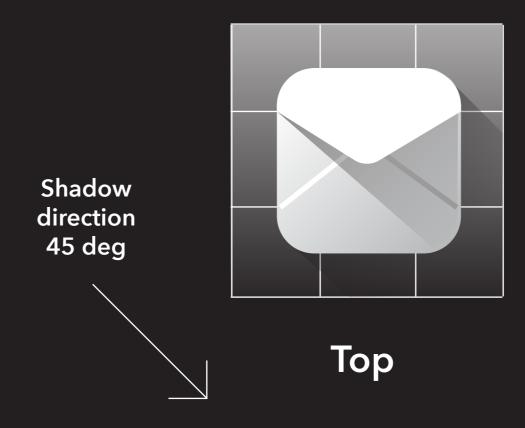
Various styles



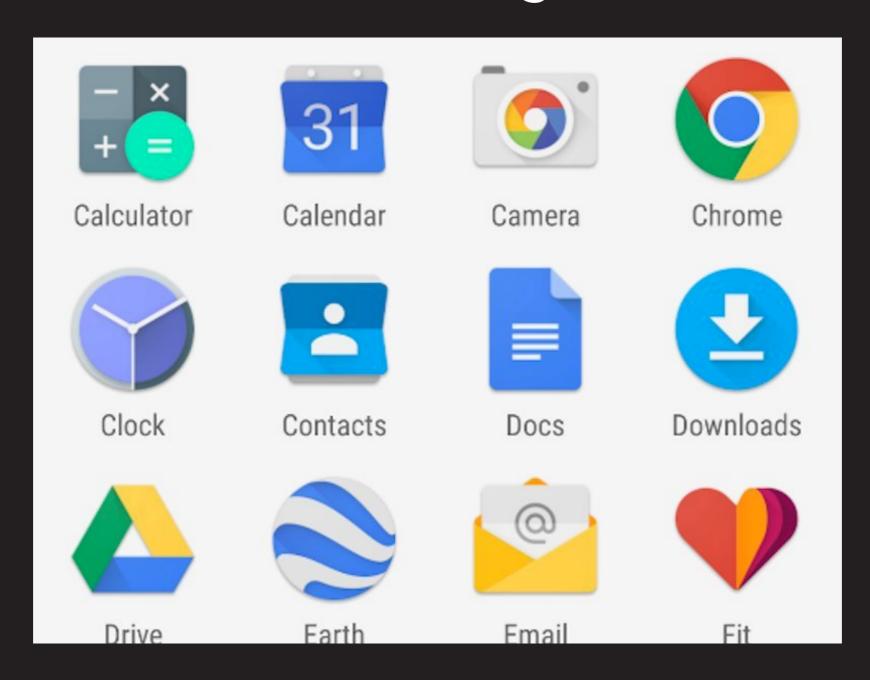
Various styles



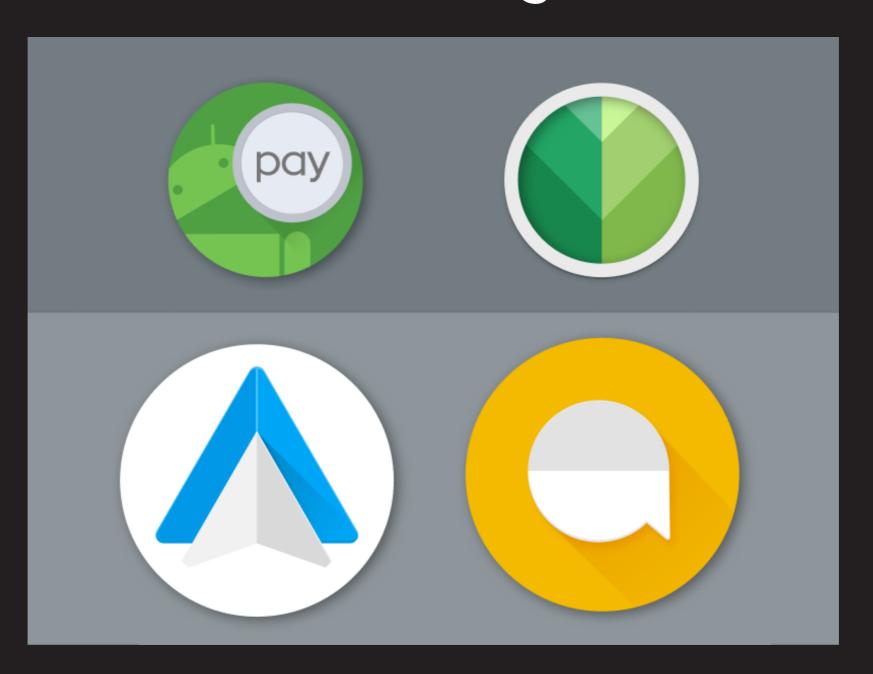
Material Design



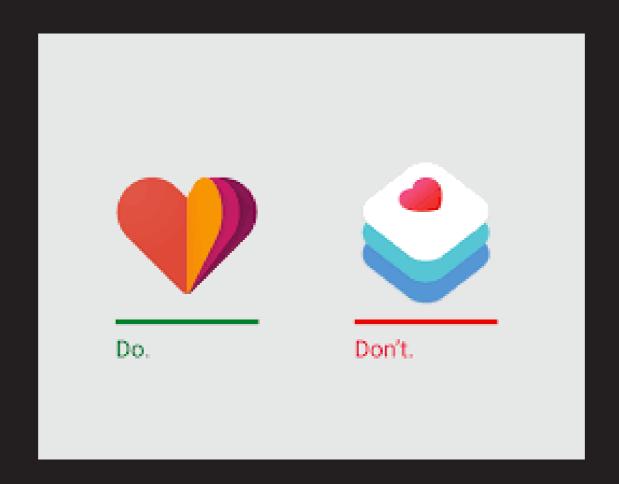
Material Design icons

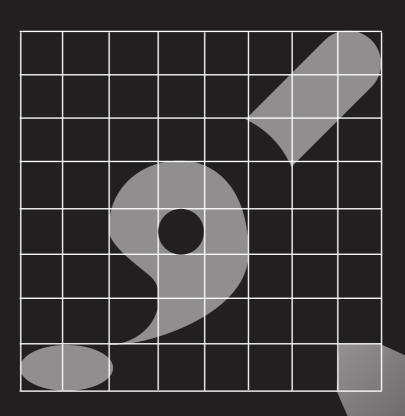


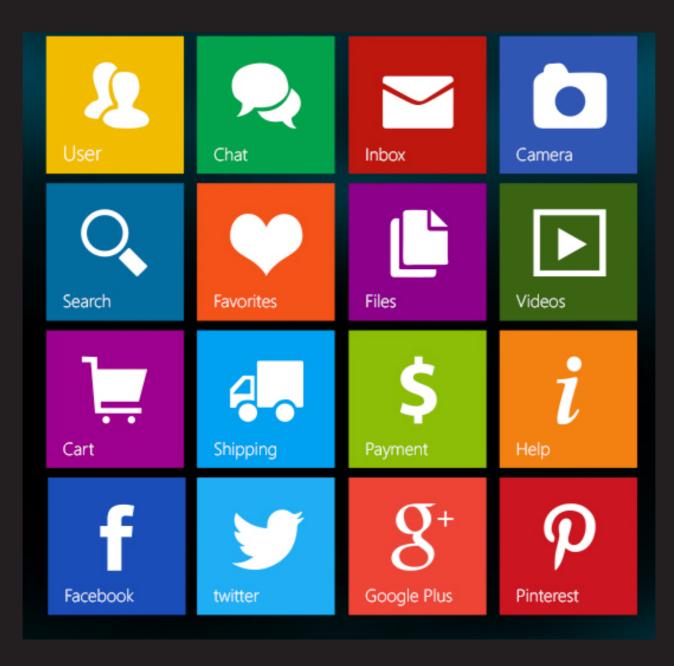
Material Design icons



Material Design icons









Avoid Roadblock



Night Drive



Destinations





Device



Interface



Location



Creation



Value Capture



Formats



When



With Whom



Length



Values



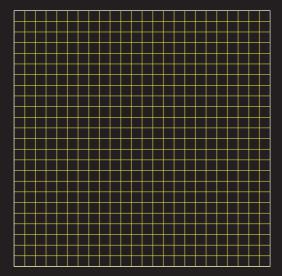
Trusted Source



Generations

Building an Icon system

Grid



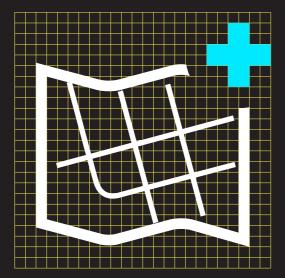
Create an icon

Apps

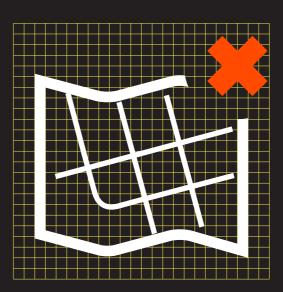


Status options

Add

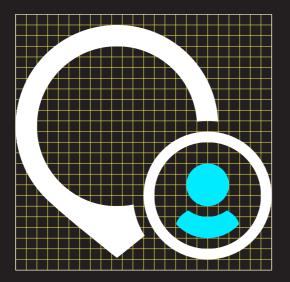


Delete

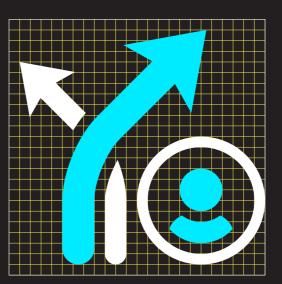


Grouping Topics

My places

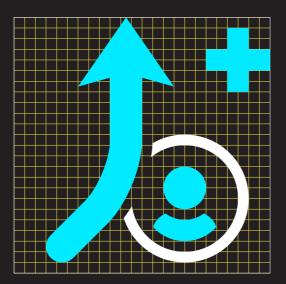


My routes



Combining Elements

Add to my routes

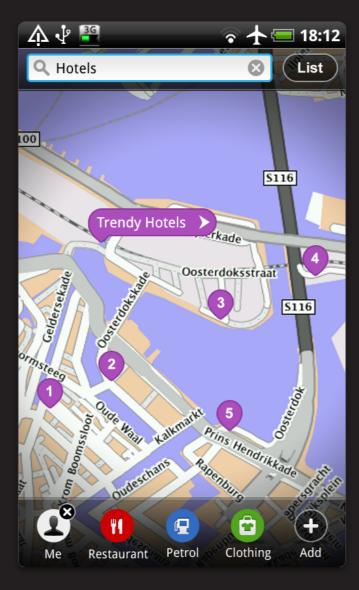


102			Toggle
102	124	+	
102	P	Leave page	

Examples



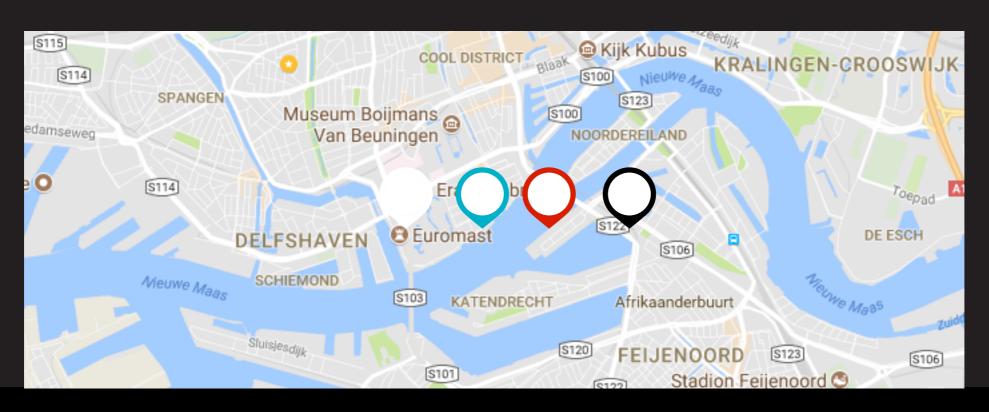
Map Icons



TomTom Places

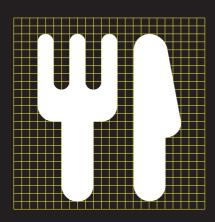
Map Containers

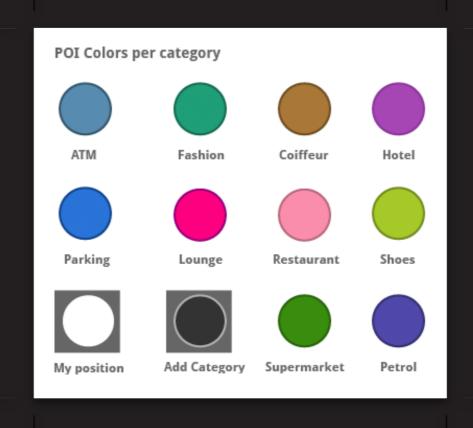




Map Icons

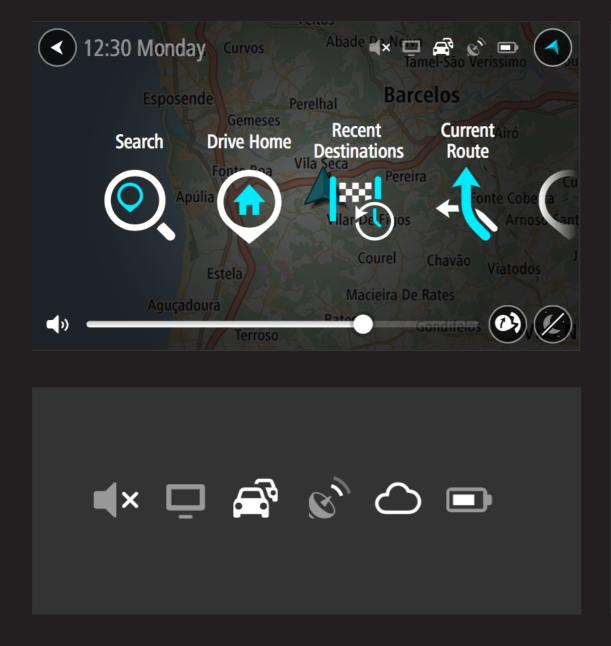
restaurant

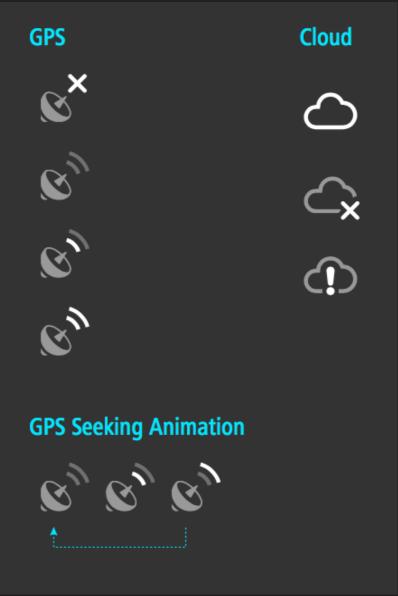






Control Icons





Don't use (excess) color (this reserved for the main icons)

