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Xwatch 1.0

Design your own individual watch layout for your i'm watch without programming. Create your clockface with a logo of your favorite club, your company logo or your pet for example. Switch between your watches by wiping left and right on the screen.

After first run of the Xwatch-app, you will find a directory „xwatch“ on the internal sd-card with the included sample watches. Simply take one of the sample watches and replace the pictures for background, clockface or hands.

Additionally you can modify the configuration file of every watch to change a lot of settings. So you can adjust the number of watches, the position of the watches, the timezone and much more.

Example watches



Modern watch with a company logo is sliding in.



Logo watch with a logo of your favorite club.



Dog watch with a picture of your pet or something else.



24 Hours watch runs with 24 hours per turn.



Timezones watch shows the time of different timezones.



Park disc watch stops on the current time.



Bavarian watch is running reverse.

Configuration of the watches

After first run of the Xwatch-app, you will find a directory „xwatch“ on the internal sd-card. There is a corresponding subdirectory for each of your watch profiles. The internal SD card can be accessed by connecting your I'm watch via USB to a computer.

Creating and removing a watch profile

To create a new additional profile, you can copy the directory of a sample watch. The watches appear in alphabetical order according to the directory names. A self-applied watch profile can be removed by deleting the corresponding directory.

If you delete the directory of a included sample watch, the xwatch App automatically restores the original directory. To disable a example watch, we recommend to delete or rename the file "xwatch.xml".

Exchange of watches images

In each directory you will find the watch associated images in png format. Depending on the type of representation, these are the images for the background, the face, the hands, and possibly more. You can replace the images with your own graphics. For an optimal design your graphic software should support PNG files with a transparent background layer.

Images of hands must be aligned so that the hand points upward (12 clock).

The settings file "xwatch.xml"

If you don't find sufficient variations in the watch examples, you can change the settings and configure your watch completely free. In each directory of a watch, there is a settings file with the name "xwatch.xml" in XML format.

As a simple example, here is the settings file of the logo watch:

```
<Screen Bitmap = "background.png">
  <Sprite Bitmap = "logo_fussball.png" PosX = "158" PosY = "86" />

  <AnalogWatch FloatingHands = "true">
    <Hands>
      <Hour Bitmap = "hand_hour.png" Offset = "-4"/>
      <Minute Bitmap = "hand_minute.png" Offset = "-4"/>
      <Second Bitmap = "hand_second.png" Offset = "-18"/>
    </Hands>
  </AnalogWatch>
</Screen>
```

The main element is the screen element. It describes the appearance and the arrangement of the graphic objects on the watch screen. There are currently two graphical objects. The sprite element to display images and the AnalogWatch-element for displaying an analog watch.

You can place a arbitrary number of pictures and watches overlaying. The objects are placed one above the other in the order as listed here.

With the optional attribute "Bitmap" of the screen element can be assigned a background image.

The Sprite element

The sprite element is used to position an image on the watch screen.

It has the following possible attributes:

Bitmap	This attribute specifies the name of the image file.
PosX / PosY	With these values, the position of the image on the watch screen is set. The values are based to the center of the image. The coordinates 0/0 on the watch screen can be found in the upper left corner. The X-values show to right and the Y-values downward. The default value is 120/120. The image is then exactly in the middle.
Angle	With this attribute the image can be rotated around its center point. The default is 0 degrees.

The AnalogWatch element

The element AnalogWatch represents an analog watch on the watch screen.

It has the following possible attributes:

PosX / PosY	With these values, the position of the watch on the watch screen is set. The values refer to the center of the watch. The coordinates 0/0 on the watch screen can be found in the upper left corner. The X-values show to right and the Y values downward. The default value is 120/120 The watch is then exactly in the middle.
Angle	With this attribute, the watch can be rotated around its center point. The default is 0 degrees.
FloatingHands	This attribute can be true or false. Is it true, the second hand moves continuously, otherwise it jumps every second. The default value is false.
HoursPerRotation	This value indicates how many hours are corresponding to one rotation of the hour hand. The default value is 12.
Reverse	This attribute can be true or false. Is it true, the watch is running backwards. The default value is false.
Timezone	This attribute specifies the timezone of the watch. By default, the timezone used is adjusted to the i'm watch. Valid values can be found at the end of the documentation. These are the values, which are known from the Java language.

The Hands element

The hands of an analogue watch are defined in the sub-element "Hands". There are elements "Hour", "Minute", "Second", each for the hour, minute and second hands. Any hand type can only specified once. If you need several hands of a type, you must define a corresponding number of watches. Unnecessary hands can simply be omitted.

The hand element has the following attributes:

Bitmap	This attribute specifies the name of the image file of the hand. The image must be aligned so that the hand points upward (12 clock).
Offset	This value indicates the distance of the hand to the center of the watch. The value can also be negative to make the hand extend back over the center. The default value is 0.

Timezones

Etc/GMT+12
Etc/GMT+11
MIT
Pacific/Apia
Pacific/Midway
Pacific/Niue
Pacific/Pago_Pago
Pacific/Samoa
US/Samoa
America/Adak
America/Atka
Etc/GMT+10
HST
Pacific/Fakaofu
Pacific/Honolulu
Pacific/Johnston
Pacific/Rarotonga
Pacific/Tahiti
SystemV/HST10
US/Aleutian
US/Hawaii
Pacific/Marquesas
AST
America/Anchorage
America/Juneau
America/Nome
America/Yakutat
Etc/GMT+9
Pacific/Gambier
SystemV/YST9
SystemV/YST9YDT
US/Alaska
America/Dawson
America/Ensenada
America/Los_Angeles
America/Tijuana
America/Vancouver
America/Whitehorse
Canada/Pacific
Canada/Yukon
Etc/GMT+8
Mexico/BajaNorte
PST
PST8PDT
Pacific/Pitcairn
SystemV/PST8
SystemV/PST8PDT
US/Pacific
US/Pacific-New
America/Boise
America/Cambridge_Bay
America/Chihuahua
America/Dawson_Creek
America/Denver
America/Edmonton
America/Hermosillo
America/Inuvik
America/Mazatlan
America/Phoenix
America/Shiprock
America/Yellowknife
Canada/Mountain
Etc/GMT+7
MST
MST7MDT
Mexico/BajaSur
Navajo
PNT
SystemV/MST7
SystemV/MST7MDT
US/Arizona
US/Mountain
America/Belize
America/Cancun
America/Chicago
America/Costa_Rica
America/El_Salvador
America/Guatemala
America/Managua
America/Menominee
America/Merida
America/Mexico_City
America/Monterrey
America/North_Dakota/Center
America/Rainy_River
America/Rankin_Inlet
America/Regina
America/Swift_Current
America/Tegucigalpa
America/Winnipeg
CST
CST6CDT
Canada/Central
Canada/East-Saskatchewan
Canada/Saskatchewan
Chile/EasterIsland
Etc/GMT+6
Mexico/General
Pacific/Easter
Pacific/Galapagos
SystemV/CST6
SystemV/CST6CDT
US/Central
America/Bogota
America/Cayman
America/Detroit
America/Eirunepe
America/Fort_Wayne
America/Grand_Turk
America/Guayaquil
America/Havana
America/Indiana/Indianapolis
America/Indiana/Knox
America/Indiana/Marengo
America/Indiana/Vevay
America/Indianapolis
America/Iqaluit
America/Jamaica
America/Kentucky/Louisville
America/Kentucky/Monticello
America/Knox_IN
America/Lima
America/Louisville
America/Montreal
America/Nassau
America/New_York
America/Nipigon
America/Panama
America/Pangnirtung
America/Port-au-Prince
America/Porto_Acre
America/Rio_Branco
America/Thunder_Bay
America/Toronto
Brazil/Acre
Canada/Eastern
Cuba
EST
EST5EDT
Etc/GMT+5
IET
Jamaica
SystemV/EST5
SystemV/EST5EDT
US/East-Indiana
US/Eastern
US/Indiana-Starke
US/Michigan
America/Anguilla
America/Antigua
America/Aruba
America/Asuncion
America/Barbados
America/Boa_Vista
America/Campo_Grande
America/Caracas
America/Cuiaba
America/Curacao
America/Dominica
America/Glace_Bay
America/Goose_Bay
America/Grenada
America/Guadeloupe
America/Guyana
America/Halifax
America/La_Paz
America/Manaus
America/Martinique
America/Montserrat
America/Port_of_Spain
America/Porto_Velho
America/Puerto_Rico
America/Santiago
America/Santo_Domingo

America/St_Kitts	Africa/Lome	Europe/Berlin
America/St_Lucia	Africa/Monrovia	Europe/Bratislava
America/St_Thomas	Africa/Nouakchott	Europe/Brussels
America/St_Vincent	Africa/Ouagadougou	Europe/Budapest
America/Thule	Africa/Sao_Tome	Europe/Copenhagen
America/Tortola	Africa/Timbuktu	Europe/Gibraltar
America/Virgin	America/Danmarkshavn	Europe/Ljubljana
Antarctica/Palmer	Atlantic/Canary	Europe/Luxembourg
Atlantic/Bermuda	Atlantic/Faeroe	Europe/Madrid
Atlantic/Stanley	Atlantic/Madeira	Europe/Malta
Brazil/West	Atlantic/Reykjavik	Europe/Monaco
Canada/Atlantic	Atlantic/St_Helena	Europe/Oslo
Chile/Continental	Eire	Europe/Paris
Etc/GMT+4	Etc/GMT	Europe/Prague
PRT	Etc/GMT+0	Europe/Rome
SystemV/AST4	Etc/GMT-0	Europe/San_Marino
SystemV/AST4ADT	Etc/GMT0	Europe/Sarajevo
America/St_Johns	Etc/Greenwich	Europe/Skopje
CNT	Etc/UCT	Europe/Stockholm
Canada/Newfoundland	Etc/UTC	Europe/Tirane
AGT	Etc/Universal	Europe/Vaduz
America/Araguaina	Etc/Zulu	Europe/Vatican
America/Bahia	Europe/Belfast	Europe/Vienna
America/Belem	Europe/Dublin	Europe/Warsaw
America/Buenos_Aires	Europe/Lisbon	Europe/Zagreb
America/Catamarca	Europe/London	Europe/Zurich
America/Cayenne	GB	MET
America/Cordoba	GB-Eire	Poland
America/Fortaleza	GMT	ART
America/Godthab	GMT0	Africa/Blantyre
America/Jujuy	Greenwich	Africa/Bujumbura
America/Maceio	Iceland	Africa/Cairo
America/Mendoza	Portugal	Africa/Gaborone
America/Miquelon	UCT	Africa/Harare
America/Montevideo	UTC	Africa/Johannesburg
America/Paramaribo	Universal	Africa/Kigali
America/Recife	WET	Africa/Lubumbashi
America/Rosario	Zulu	Africa/Lusaka
America/Sao_Paulo	Africa/Algiers	Africa/Maputo
Antarctica/Rothera	Africa/Bangui	Africa/Maseru
BET	Africa/Brazzaville	Africa/Mbabane
Brazil/East	Africa/Ceuta	Africa/Tripoli
Etc/GMT+3	Africa/Douala	Asia/Amman
America/Noronha	Africa/Kinshasa	Asia/Beirut
Atlantic/South_Georgia	Africa/Lagos	Asia/Damascus
Brazil/DeNoronha	Africa/Libreville	Asia/Gaza
Etc/GMT+2	Africa/Luanda	Asia/Istanbul
America/Scoresbysund	Africa/Malabo	Asia/Jerusalem
Atlantic/Azores	Africa/Ndjamena	Asia/Nicosia
Atlantic/Cape_Verde	Africa/Niamey	Asia/Tel_Aviv
Etc/GMT+1	Africa/Porto-Novo	CAT
Africa/Abidjan	Africa/Tunis	EET
Africa/Accra	Africa/Windhoek	Egypt
Africa/Bamako	Arctic/Longyearbyen	Etc/GMT-2
Africa/Banjul	Atlantic/Jan_Mayen	Europe/Athens
Africa/Bissau	CET	Europe/Bucharest
Africa/Casablanca	ECT	Europe/Chisinau
Africa/Conakry	Etc/GMT-1	Europe/Helsinki
Africa/Dakar	Europe/Amsterdam	Europe/Istanbul
Africa/El_Aaiun	Europe/Andorra	Europe/Kaliningrad
Africa/Freetown	Europe/Belgrade	Europe/Kiev

Europe/Minsk	Asia/Dushanbe	Australia/Perth
Europe/Nicosia	Asia/Karachi	Australia/West
Europe/Riga	Asia/Samarkand	CTT
Europe/Simferopol	Asia/Tashkent	Etc/GMT-8
Europe/Sofia	Asia/Yekaterinburg	Hongkong
Europe/Tallinn	Etc/GMT-5	PRC
Europe/Tiraspol	Indian/Kerguelen	Singapore
Europe/Uzhgorod	Indian/Maldives	Asia/Choibalsan
Europe/Vilnius	PLT	Asia/Dili
Europe/Zaporozhye	Asia/Calcutta	Asia/Jayapura
Israel	IST	Asia/Pyongyang
Libya	Asia/Katmandu	Asia/Seoul
Turkey	Antarctica/Mawson	Asia/Tokyo
Africa/Addis_Ababa	Antarctica/Vostok	Asia/Yakutsk
Africa/Asmera	Asia/Almaty	Etc/GMT-9
Africa/Dar_es_Salaam	Asia/Colombo	JST
Africa/Djibouti	Asia/Dacca	Japan
Africa/Kampala	Asia/Dhaka	Pacific/Palau
Africa/Khartoum	Asia/Novosibirsk	ROK
Africa/Mogadishu	Asia/Omsk	ACT
Africa/Nairobi	Asia/Qyzylorda	Australia/Adelaide
Antarctica/Syowa	Asia/Thimbu	Australia/Broken_Hill
Asia/Aden	Asia/Thimphu	Australia/Darwin
Asia/Baghdad	BST	Australia/North
Asia/Bahrain	Etc/GMT-6	Australia/South
Asia/Kuwait	Indian/Chagos	Australia/Yancowinna
Asia/Qatar	Asia/Rangoon	AET
Asia/Riyadh	Indian/Cocos	Antarctica/DumontDUrville
EAT	Antarctica/Davis	Asia/Sakhalin
Etc/GMT-3	Asia/Bangkok	Asia/Vladivostok
Europe/Moscow	Asia/Hovd	Australia/ACT
Indian/Antananarivo	Asia/Jakarta	Australia/Brisbane
Indian/Comoro	Asia/Krasnoyarsk	Australia/Canberra
Indian/Mayotte	Asia/Phnom_Penh	Australia/Hobart
W-SU	Asia/Pontianak	Australia/Lindeman
Asia/Riyadh87	Asia/Saigon	Australia/Melbourne
Asia/Riyadh88	Asia/Vientiane	Australia/NSW
Asia/Riyadh89	Etc/GMT-7	Australia/Queensland
Mideast/Riyadh87	Indian/Christmas	Australia/Sydney
Mideast/Riyadh88	VST	Australia/Tasmania
Mideast/Riyadh89	Antarctica/Casey	Australia/Victoria
Asia/Tehran	Asia/Brunei	Etc/GMT-10
Iran	Asia/Chongqing	Pacific/Guam
Asia/Aqtou	Asia/Chungking	Pacific/Port_Moresby
Asia/Baku	Asia/Harbin	Pacific/Saipan
Asia/Dubai	Asia/Hong_Kong	Pacific/Truk
Asia/Muscat	Asia/Irkutsk	Pacific/Yap
Asia/Oral	Asia/Kashgar	Australia/LHI
Asia/Tbilisi	Asia/Kuala_Lumpur	Australia/Lord_Howe
Asia/Yerevan	Asia/Kuching	Asia/Magadan
Etc/GMT-4	Asia/Macao	Etc/GMT-11
Europe/Samara	Asia/Macao	Pacific/Efate
Indian/Mahe	Asia/Makassar	Pacific/Guadalcanal
Indian/Mauritius	Asia/Manila	Pacific/Kosrae
Indian/Reunion	Asia/Shanghai	Pacific/Noumea
NET	Asia/Singapore	Pacific/Ponape
Asia/Kabul	Asia/Taipei	SST
Asia/Aqtobe	Asia/Ujung_Pandang	Pacific/Norfolk
Asia/Ashgabat	Asia/Ulaanbaatar	Antarctica/McMurdo
Asia/Ashkhabad	Asia/Ulan_Bator	Antarctica/South_Pole
Asia/Bishkek	Asia/Urumqi	Asia/Anadyr

Asia/Kamchatka
Etc/GMT-12
Kwajalein
NST
NZ
Pacific/Auckland
Pacific/Fiji
Pacific/Funafuti

Pacific/Kwajalein
Pacific/Majuro
Pacific/Nauru
Pacific/Tarawa
Pacific/Wake
Pacific/Wallis
NZ-CHAT
Pacific/Chatham

Etc/GMT-13
Pacific/Enderbury
Pacific/Tongatapu
Etc/GMT-14
Pacific/Kiritimati