



Go.WebTM Style Guide

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Introduction

Go.Web is GoAmerica's tool to give customers wireless access to the Internet. It can be classified as both a product and a service since it combines the advanced, wireless-friendly software created by GoAmerica and the information-rich portal MyGo.Web.

As wireless Internet access rapidly increases in popularity, the need grows for Web content that functions well on wireless devices, but is still compelling. With Go.Web, you can accomplish both. This guide will explain some of the parameters for developing HTML, HDML or WML pages for wireless devices.

Devices and Platforms

The devices/platforms that currently support Go.Web are:

- RIM 850, 950, and 957 2-way pagers
- Palm III, Palm V and Handspring Visor
- Microsoft Windows CE and Pocket PC

Some Go.Web guidelines are the same across these platforms, and some differ. This guide will alert you when functions are treated differently.

Features

Go.Web supports HTML version 3.2. In addition, on the RIM devices Go.Web supports HDML 3.0 and a subset of WML 1.1.

The following table provides a summary of the availability of some features on the various Go.Web platforms:

Feature	Palm OS	RIM Devices	Windows CE/Pocket PC
Images	Yes	Yes *	Yes
Tables	Yes	Yes *	Yes
Forms	Yes (multi-select lists not supported)	Yes (multi-select lists not supported)	Yes
Java Applets	No	No	No
JavaScript	No	No	Yes
VBScript	No	No	No
Image Maps	No	No	Yes
Frames	No	No	No
WMLScript	No	No	No

* To use tables on the RIM devices, the “Format Table” option must be set to ‘Y’ on the device. (This item can be found by going to “Setup”, choosing “Go.Web” and then “Format Table”.) Likewise, the “Images” option must be set to “Friendly Sites Only”.

Cookies are fully supported and work no differently than in normal web browsing, with the exception that they are handled through the Go.Web server and not actually stored on the device.

General Design Guidelines

To optimize the user's viewing experience, some general guidelines are recommended when designing web pages for wireless devices:

Emphasis should be put on content rather than on images and graphics. Complicated graphics usually do not translate well to the smaller displays on wireless devices while at the same time they consume greater bandwidth. Since users may have the option not to display any images on the device, the use of the ALT parameter is greatly encouraged when using the IMAGE tag.

Screen display space should be used economically. Requiring the user to scroll through large amounts of text on a six-line display can quickly become an annoyance. The use of named anchors is encouraged, allowing the user to navigate straight to the desired information. Any lengthy pages should be avoided, since there may be a limit on page size on the user's device.

Allow users to customize content wherever possible. This can help to ensure that only essential data is displayed in a way that is meaningful to the user. In the process of customizing data, try to avoid having the user enter lengthy character strings or URLs. Excessive data entry can be difficult on the small keypads of wireless devices.

If you must use graphics, design them carefully. Try to use graphics that fit the width of the screen. For the Palm devices and the RIM 957, the usable display area is 150 pixels wide because of the space occupied by the title bar and scroll bar. For the RIM 850 and 950, the display width is only 132 pixels. Images that are too large to fit on the display will be automatically reduced and their quality will be adversely affected. For best results on the RIM and Palm devices, all images should be 2-bit grayscale in GIF format.

Remember to set the HandheldFriendly META tag. Always include this line in your markup file: `<meta NAME="HandheldFriendly" CONTENT="True">`. If possible, try to ensure that any pages you link to are tagged as HandheldFriendly as well.

User-Agent for the Go.Web browser. This will differ for the different devices as follows:

1. for Go.Web for RIM and Palm:
Go.Web/1.1 (compatible; HandHTTP 1.1; Mozilla/1.0; XXX)
2. for Go.Web for Windows:
Mozilla/4.0[en] (compatible; MSIE 5.0; Go.Web/1.1; XXX; DigExt)
3. for Go.Web for WindowsCE:
Mozilla/1.0[en]; Go.Web/1.1 (compatible; MSIE 2.0; HandHTTP 1.1; XXX)

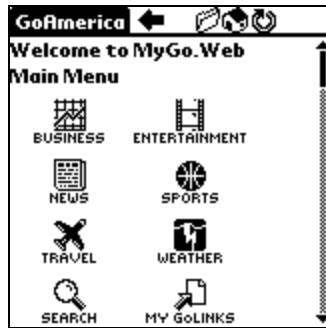
Where XXX can be one of the following devices:

RIM 950, RIM 957, RIM850, RIM 857, Palm, WinCE, WIN32

A Unique Subscriber ID is passed in the identifier **x-ga-subno** in HTTP requests.

Screen Size

The screen width for the RIM device and the Palm are very similar. Many Web applications developed for one will appear well on the other. Content providers can choose to create one page to work on all devices or customized pages per device. In the latter case, the device type can be detected by the HTTP server which could then send the appropriate page to the device.



Palm and RIM 957 - 160x160 (mono)



RIM 850 and 950 – 132x64 (mono)

Screen sizes for Windows CE can vary, ranging from 240 x 320 on the Pocket PC's up to 800 x 600 on laptops.

Fonts

The RIM devices only support a single font in one size. Go.Web for the Palm supports two font sizes, large and small. For Windows CE and Pocket PC, the standard font sizes supported by most browsers may be used.



Large and Small Fonts for Palm



Single Font for RIM Device

Images

The Go.Web browser supports gif and jpeg file formats. On devices where WML is supported (currently only the RIM 2-way pagers), wbmp format is supported as well.

Page Length

The maximum page size can be set on the device under Go.Web Preferences. The upper limit setting for page size is 50K bytes on the Palms, RIM 850 and 950's. On the RIM 957's, the upper limit is 100K bytes. When the upper limit is reached, the page will be truncated ("Page Truncated. Maximum page size reached" will be appended to the end of the page.)

Supported Tags and Elements for HTML, HDML and WML

Tables 1, 2 and 3 in the following pages will provide a summary of the features supported by Go.Web for HTML, HDML and WML, respectively.

HTML Tags

Table 1 summarizes the HTML tags and attributes supported by Go.Web on the various platforms:

Table 1

Tag	Attribute	RIM devices	Palm OS	Windows CE/Pocket PC
A		Yes	Yes	Yes
	HREF	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
ADDRESS		Yes	Yes	Yes
APPLET		No	No	No
AREA		No	No	No
B		Yes	Yes	Yes
BASE		Yes	Yes	Yes
	HREF	Yes	Yes	Yes
	TARGET	No	No	No
BASEFONT		No	No	No
	SIZE	No	No	No
BIG		No	No	No
BLOCKQUOTE		Yes	Yes	Yes
BODY		Yes	Yes	Yes
	ALINK	No	No	No
	BACKGROUND	No	No	No
	BGCOLOR	No	No	Yes
	LINK	No	No	Yes
	ONLOAD	Yes	Yes	Yes
	ONSCAN	Yes	Yes	No
	ONUNLOAD	Yes	Yes	Yes
	TEXT	No	No	Yes
	VLINK	No	No	No
BR		Yes	Yes	Yes
	CLEAR	No	No	No
CAPTION		No	No	Yes
	ALIGN=(top bottom)	No	No	Yes

CENTER		Yes	Yes	Yes
CITE		No	No	Yes
CODE		No	No	Yes
DD		Yes	Yes	Yes
DFN		No	No	No
DIR		No	No	Yes
	COMPACT	No	No	Yes
DIV		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
DL		Yes	Yes	Yes
	COMPACT	No	No	No
DT		Yes	Yes	Yes
EM		Yes – inverts text	Yes	Yes
FONT		No	No	Yes
	COLOR	No	No	Yes
	FACE	No	No	Yes
	SIZE	No	No	Yes
FORM		Yes	Yes	Yes
	ACTION	Yes	Yes	Yes
	METHOD = (get post)	Yes	Yes	Yes
	ENCTYPE	No	No	No
	NAME	Yes	Yes	Yes
	ONRESET	No	No	Yes
	ONSUBMIT	No	No	Yes
H1 – H6		H1, H2 and H3 will invert text	Yes	Yes
	ALIGN = (left center right)	No	No	Yes
HEAD		Yes	Yes	Yes
HR		Yes	Yes	Yes
	ALIGN (left center right)	No	No	Yes
	NOSHADE	No	No	No
	SIZE	Yes	Yes	Yes
	WIDTH	Yes	Yes	Yes
HTML		Yes	Yes	Yes
I		Inverts text	Yes	Yes
IMG		Yes	Yes	Yes
	ALIGN = (top middle bottom)	No	No	Yes
	ALIGN = (left	No	No	No

	right)			
	ALT	Yes	Yes	Yes
	BORDER	No	No	No
	HEIGHT	Yes	Yes	Yes
	HSPACE	Yes	Yes	Yes
	ISMAP	No	No	No
	NAME	Yes	Yes	Yes
	SRC	Yes	Yes	Yes
	USEMAP	No	No	No
	VSPACE	No	No	Yes
	WIDTH	Yes	Yes	Yes
INPUT TYPE= button		Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
INPUT TYPE= checkbox		Yes	Yes	Yes
	CHECKED	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
INPUT TYPE= file		No	No	No
INPUT TYPE= hidden		Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
INPUT TYPE= image		Yes	Yes	Yes
	ALIGN = (top middle bottom)	No	No	Yes
	ALIGN = (left right)	No	No	No
	ALT	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	SRC	Yes	Yes	Yes
INPUT TYPE= password		Yes	Yes	Yes
	MAXLENGTH	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	SIZE	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
INPUT TYPE= radio		Yes	Yes	Yes
	CHECKED	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	SIZE	Yes	Yes	Yes

	VALUE	Yes	Yes	Yes
INPUT TYPE=reset		No	No	Yes
	NAME	No	No	Yes
	VALUE	No	No	Yes
INPUT TYPE=submit		Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
INPUT TYPE=text		Yes	Yes	Yes
	MAXLENGTH	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
	SIZE	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
ISINDEX		No	No	No
KBD		No	No	Yes
LI		Yes	Yes	Yes
	TYPE			
	VALUE	Yes	Yes	Yes
LINK		No	No	No
MAP		No	No	No
MENU		No	No	Yes
	COMPACT	No	No	Yes
META		Yes	Yes	Yes
	CONTENT	Yes	Yes	Yes
	HTTP-EQUIV	Yes	Yes	Yes
	NAME	Yes	Yes	Yes
OL		No	No	Yes
	COMPACT	No	No	Yes
	START	No	No	Yes
	TYPE	No	No	Yes
OPTION		Yes	Yes	Yes
	SELECTED	Yes	Yes	Yes
	VALUE	Yes	Yes	Yes
P		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
PARAM		No	No	No
PRE		Yes	Yes	Yes
	WIDTH	No	No	No
SAMP		No	No	Yes
SCRIPT		No	No	Yes
	LANGUAGE	No	No	Yes
	SRC	No	No	Yes

	TYPE	No	No	Yes
SELECT		Yes	Yes	Yes
	MULTIPLE	No	No	Yes
	NAME	Yes	Yes	Yes
	SIZE	Yes	Yes	Yes
SMALL		No	No	Yes
STRIKE		No	No	Yes
STRONG		Yes	Yes	Yes
STYLE		No	No	No
SUB		No	No	Yes
SUP		No	No	Yes
TABLE		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
	BGCOLOR	No	No	Yes
	BORDER	No	No	Yes
	BORDERCOLOR	No	No	Yes
	CELLPADDING	No	No	Yes
	CELLSPACING	No	No	Yes
	WIDTH	No	No	Yes
TD		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
	BGCOLOR	No	No	No
	COLSPAN	No	No	Yes
	HEIGHT	No	No	Yes
	NOWRAP	No	No	Yes
	ROWSPAN	No	No	Yes
	VALIGN=(top middle bottom)	No	No	Yes
	WIDTH	No	No	Yes
TEXTAREA		Yes	Yes	Yes
	COLS	No	No	Yes
	NAME	Yes	Yes	Yes
	ROWS	No	No	Yes
TH		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
	COLSPAN	No	No	Yes
	HEIGHT	No	No	Yes
	NOWRAP	No	No	Yes
	ROWSPAN	No	No	Yes
	VALIGN=(top middle bottom)	No	No	Yes
	WIDTH	No	No	Yes

TITLE		Yes	Yes	Yes
TR		Yes	Yes	Yes
	ALIGN=(left center right)	No	No	Yes
	BGCOLOR	No	No	No
	VALIGN=(top middle bottom)	No	No	Yes
TT		Yes	Yes	Yes
U		No	No	Yes
UL		Yes	Yes	Yes
	COMPACT	No	No	Yes
	TYPE	No	No	No
VAR		No	No	Yes

HDML

HDML 3.0 is currently supported on the RIM devices only. Table 2 summarizes the HDML elements and options that Go.Web supports:

Table 2

Element	Option	
HDML		Yes
	VERSION	Yes
	TTL	Yes
	MARKABLE	Yes
	PUBLIC	No
	ACCESSDOMAIN	No
	ACCESSPATH	No
A		Yes
	TASK	Yes
	LABEL	Yes
	ACCESSKEY	Yes
	REL	Yes
	DEST	Yes
	VARS	Yes
	RECEIVE	Yes
	NEXT	Yes

	CANCEL	Yes
	FRIEND	No
	SENDREFERER	No
	RETVALS	Yes
	CLEAR	Yes
	POSTMETHOD=(get post)	Yes
	POSTDATA	Yes
	ACCEPT-CHARSET	No
	NUMBER	Yes
ACTION		Yes
	TYPE	Yes
	TASK	Yes
	LABEL	Yes
	REL	Yes
	DEST	Yes
	VARS	Yes
	RECEIVE	Yes
	NEXT	Yes
	CANCEL	Yes
	FRIEND	No
	SENDREFERER	No
	RETVALS	Yes
	CLEAR	Yes
	POSTMETHOD=(get post)	Yes
	POSTDATA	Yes
	ACCEPT-CHARSET	No
	NUMBER	Yes
	SRC	Yes
	ICON	No
&		Yes
BR		Yes
CE		Yes
	VALUE	Yes
	TASK	Yes
	LABEL	Yes
	REL=NEXT	Yes
	DEST	Yes
	VARS	Yes
	RECEIVE	Yes
	NEXT	Yes
	CANCEL	Yes
	FRIEND	No
	SENDREFERER	No
	RETVALS	Yes
	CLEAR	Yes

	POSTMETHOD=(get post)	Yes
	POSTDATA	Yes
	ACCEPT-CHARSET	No
	NUMBER	Yes
CENTER		Yes
CHOICE		Yes
	NAME	Yes
	MARKABLE	Yes
	TITLE	Yes
	BOOKMARK	Yes
	KEY	Yes
	IKEY	Yes
	METHOD	Yes
	DEFAULT	Yes
	IDEFAULT	No
DISPLAY		Yes
	NAME	Yes
	MARKABLE	Yes
	TITLE	Yes
	BOOKMARK	Yes
&dol		Yes
ENTRY		Yes
	NAME	Yes
	MARKABLE	Yes
	TITLE	Yes
	BOOKMARK	Yes
	FORMAT	Yes
	DEFAULT	Yes
	KEY	Yes
	NOECHO	Yes
	EMPTYOK	Yes
>		Yes
<		Yes
LINE		Yes
 		Yes
NODISPLAY		Yes
	NAME	Yes
"		Yes
RIGHT		Yes
TAB		Yes
WRAP		Yes

WML

WML 1.1 is currently supported on the RIM devices only. Table 3 summarizes the WML elements and options that Go.Web supports:

Table 3

Element	Option	
Decks and Cards		
CARD		Yes
	ID	Yes
	NEWCONTEXT	No
	TITLE	Yes
	STYLE	No
	ONENTERFORWARD	Will be in Go.Web 2.0
	ONENTERBACKWARD	Will be in Go.Web 2.0
	ONTIMER	Will be in Go.Web 2.0
TEMPLATE		Yes
	ONENTERFORWARD	Will be in Go.Web 2.0
	ONENTERBACKWARD	Will be in Go.Web 2.0
HEAD		Yes
ACCESS		No
META		Yes
	NAME	Yes
	HTTP-EQUIV	Yes
	USER-AGENT	Yes
	CONTENT	Yes
	SCHEME	Yes
Timers		
TIMER		Yes
	NAME	Yes
	VALUE	Yes
Variables		
SETVAR		Yes
	NAME	Yes
	VALUE	Yes
Anchored Links		
ANCHOR	TITLE	Yes
Events		
DO		Yes
	TYPE	Yes
	LABEL	Yes
	NAME	Yes
ONEVENT	TYPE	Yes
Tasks		

GO		Yes
	HREF	Yes
	SENDREFERER	No
	METHOD	Yes
	ACCEPT-CHARSET	No
PREV		Yes
NOOP		Yes
REFRESH		Yes
Images		
IMG		Yes
	ALT	Yes
	SRC	Yes
	LOCALSRC	No
	ALIGN	No
	HEIGHT	Yes
	WIDTH	Yes
	VSPACE	No
	HSPACE	No
User Input		
INPUT		Yes
	NAME	Yes
	TITLE	Yes
	TYPE	Yes
	VALUE	Yes
	DEFAULT	Yes
	FORMAT	Will be in Go.Web 2.0
	EMPTYOK	Yes
	SIZE	Yes
	MAXLENGTH	Yes
	TABINDEX	No
SELECT		Yes
	TITLE	Yes
	MULTIPLE	Yes
	NAME	Yes
	DEFAULT	Yes
	INAME	
	IVALUE	
	TABINDEX	No
OPTION		Yes
	TITLE	Yes
	VALUE	Yes
	ONPICK	Yes
OPTGROUP	TITLE	
FIELDSET	TITLE	
Layout and Text Formatting		

B		Yes
BIG		Font size is set manually on the device; this element will invert the text for emphasis.
BR		Yes
EM		Inverts text for emphasis
I		Inverts text for emphasis
P		Yes
	ALIGN	No
	MODE	No
SMALL		Font size is set manually on the device.
STRONG		Yes
TABLE		Yes
	ALIGN	No
	TITLE	Yes
TD		Yes
TR		Yes
U		Yes
Special Characters		
<		Yes
>		Yes
&apos		Yes
"		Yes
&		Yes
\$\$		Yes
 		Yes
­		Yes