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Modul:DecodeEncode

Implements Lua functions mw.text.decode, mw.text.encode in a module.

`{{#invoke:decodeEncode|decode|s=Source text}}` → `Source text`

See List of XML and HTML character entity references.

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Decode (© → ©)

Note 2021-09-26: Possible bug: Decoding ` ` works, but ` ` doesn't.

Decodes Named Entities *from* entity name *into* a regular (unicode) character:

`©` → ©

`>` → >

All welldefined named entities are decoded (HTML Named character references, formally: as defined in the PHP table).

A regular, rendered sentence:

"At 100 °F, & with a "burning" sun above, we , we ⁄walked⁄."

In code:

`"At 100 °F, & with a "burning" sun above, we ⁄ walked⁄."` -- wikitext

Processing:

`{{#invoke:decodeEncode|decode|s=At 100 °F, & with a "burning" sun above, we walked.}}` →

`At 100 °F, & with a "burning" sun above, we walked.` -- In code: straight characters, no named entities.

Renders, again:

"At 100 °F, & with a "burning" sun above, we ⁄walked⁄."

Decode a reduced set only

By setting Vorlage:Para, only these five entity names are decoded: '<', '>', '&', '"', ' ' (that is, into '<', '>', '&', '"', ' ').

> **Note**: There is a difference with the relevant Lua parameter. (This only concerns your task if you also work directly with the Lua mw.text.decode function). Lua documentation defines parameter Vorlage:Para, having this effect: when *omitted or false*, only the reduced set of entities is recognized and decoded. This use of 'false' is *inverted* in using Vorlage:Para: Vorlage:Para = Vorlage:Para.
>
> Also, this module ignores the "omitted" logic: Vorlage:Para should be set explicitly to 'true' to be effective.

Encode (© → ©)

> Function `encode` encodes some entity-named characters into that name (for example: `&` → `&`).

Regular sentence:

> "At >100 °F, & with a "burning" sun above, we walked. ©"

In code:

> `"At >100 °F, & with a "burning" sun above, we walked. ©"`

Encode:

> `{{#invoke:decodeEncode|encode|s=At >100 °F, & with a "burning" sun above, we walked. ©|charset=&<>{{!}}°"'&©}}`
>
> →
>
> `At >100 °F, & with a "burning" sun above, we walked. ©`
>
> Renders as:
>
> "At >100 °F, & with a "burning" sun above, we walked. ©"

character set to encode

Per Lua documentation, only a small set of characters is processed. The characterset can be set (expanded) by using Vorlage:Para.

> Example: Vorlage:Para (the default), Vorlage:Para; characters not in the default will be replaced by their decimal entity: © → `©` (hexadecimal number, not decimal nor named ©)

Template

NOTE: 2021-09-13: The encode function with user-supplied charset is now used productively in Vorlage:TI and Vorlage:TI. Before implementing breaking changes here, these templates need to be adjusted accordingly!

See also

- mw.text.decode
- mw.text.encode

Vorlage:Navbox wikitext-handling templates

- Module:Urldecode

```
local p = {}

function _getBoolean( boolean_str )
        -- from: module:String; adapted
        -- requires an explicit true
        local boolean_value

        if type( boolean_str ) == 'string' then
                boolean_str = boolean_str:lower()
                if boolean_str == 'true' or boolean_str == 'yes' or boolean_str =
                        boolean_value = true
                else
                        boolean_value = false
                end
        elseif type( boolean_str ) == 'boolean' then
                boolean_value = boolean_str
        else
                boolean_value = false
        end
        return boolean_value
end

function p.decode( frame )
        local s
        local subset_only

        s = frame.args['s'] or ''
        subset_only = _getBoolean(frame.args['subset_only'] or false)

        return p._decode( s, subset_only )
end

function p._decode( s, subset_only )
        local ret = nil;

    s = mw.ustring.gsub( s, ' ', ' ' ) -- Workaround for bug: &T

        ret = mw.text.decode( s, not subset_only )

        return ret
end

function p.encode( frame )
        local s
        local charset

        s = frame.args['s'] or ''
        charset = frame.args['charset']
```

```
        return p._encode( s, charset )
end

function p._encode( s, charset )
        -- example: charset = '_&©–°\\\"\'\=' -- do escape with backslash not %;
        local ret

        if charset ~= (nil or '') then
                ret = mw.text.encode( s, charset )
        else
                -- use default: chartset = '<>&"\' ' (outer quotes = lua required
                ret = mw.text.encode( s )
        end

        return ret
end

return p
```