M.Fuchs Design - a design service provider with focus on HMI creation on embedded systems in an agile environment

As mediator between styling and software development M.Fuchs Design understands both the intentions of the designers and knows their way of working, as well as the needs and expectations of programmers.

The acquired competence since the development for the first high-resolution color TFT display in the Audi A4 (B6) from 2000 on, makes M.Fuchs Design a competent partner in the modern development of HMI, based on embedded systems such as vehicle information systems.

▷ Understanding the different ways of communication, requirements and
   work processes of graphic design, graphic styling and programming

▷ Developing efficient solutions for demanding graphic concepts

▷ Ensuring overall consistency, functional reliability and economic efficiency of the product

▷ Consideration of aspects as ergonomics, product emotion and different expectations in the
   cultural different target markets

▷ Concept studies

▷ Simulation support

Infotainmentsystem for Suzuki
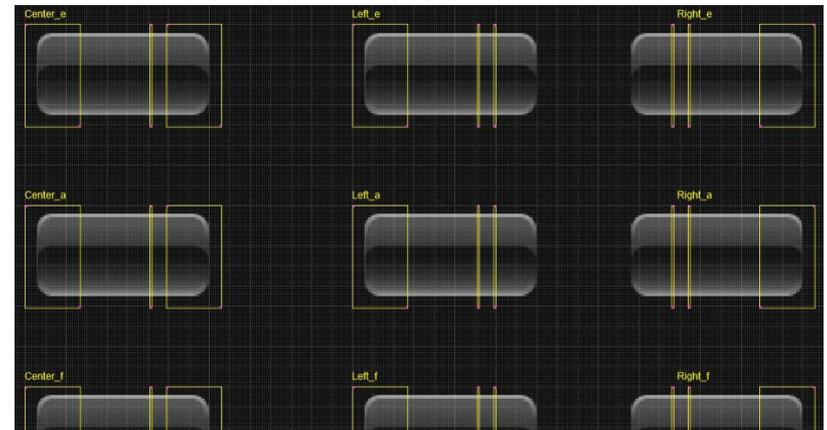

Infotainmentsystem for Nissan

Process structure and project approach reflects this mediating task

▷ Consistent preparation of graphic elements in implementation-oriented formats

▷ Construction of full views generated as a specific working basis for programming

▷ Consistent, automated documentation to avoid redundancy

▷ Changing complex graphics components spanning multiple application situations

▷ Developing solutions in order to avoid unsafe algorithms on the
target systems as well as to improve performance

▷ Continuously optimizing project processes

Positioning with insertion points and dimensions

Documentation of changes

Graphics creation

M.Fuchs Design has developed tools respecting the requirements of agile software development for the conversion of vector graphics to bitmaps.

▷ Concept and design of graphic and graphic elements, standardization of elements

▷ Quick definition of unchangeable properties of a graphic for fast implemetation and test

▷ Transfer of design and graphics delivered by the customer

▷ Generation of sub-graphics for scalable graphics in variable dimensions to reduce storage requirements and to prevent redundancy

▷ Automated documentation with additional data for positioning, margins, and for transferring directly into the implementation

▷ Efficient change management and analysis

Graphics creation of scaleable buttons with a not scaleable left and right and a scaleable center element.
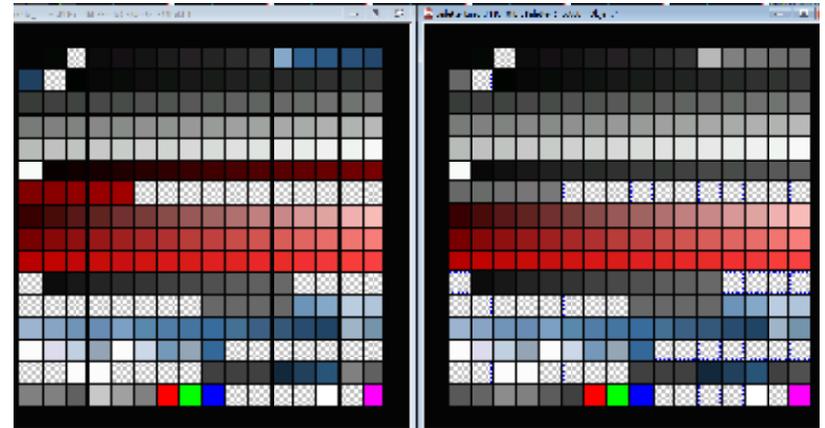
Positioning

▷ Arrangements of the graphic elements automatically documented in machine-readable form

▷ Assuring consistency by quick identification of serious changes, such as dimensions affecting multiple screens

▷ Documentation for testing and verification

▷ Quality assurance

	Path	Element	Remark	Xin	Yin	YinFont	Width	Height
1	Positioner by m.fuchs.design	martin.fuchs@mfuchsdesign.de						
2	MAST_ListItem_Text.csv							
3	01.02.2019 12:46:42 mf							
4	Path	Element	Remark	Xin	Yin	YinFont	Width	Height
248	MAST_ListItem_Text L2R/IconIconText _iit	IconList_icon_e.png	_iit 1	30	29		52	52
249	MAST_ListItem_Text L2R/IconTextText _itt/itt 8020	TB_M2_R.png	_itt 3	770	24	73	170	68
250	MAST_ListItem_Text L2R/IconTextText _itt/itt 8020	TB_M2_L.png	_itt 2	102	24	73	650	68
251	MAST_ListItem_Text L2R/IconTextText _itt/itt 6040	TB_M2_R.png	_itt 2	590	24	73	350	68
252	MAST_ListItem_Text L2R/IconTextText _itt/itt 6040	TB_M2_L.png	_itt 1	102	24	73	468	68
253	MAST_ListItem_Text L2R/IconTextText _itt	IconList_icon_e.png	_itt	30	29		52	52
254	MAST_ListItem_Text L2R/IconNumberText _int	TB_M2_L.png	_int	174	24	73	766	68
255	MAST_ListItem_Text L2R/IconNumberText _int	TB_M2_L.png	_int 1	102	24	73	53	68
256	MAST_ListItem_Text L2R/IconNumberText _int	IconList_icon_e.png	_int	30	29		52	52
257	MAST_ListItem_Text L2R/IconText _it	TB_M2_L.png	_it	102	24	73	838	68
258	MAST_ListItem_Text L2R/IconText _it	IconList_icon_e.png	_it	30	29		52	52
259	MAST_ListItem_Text L2R/TextTextText _ttt2 SMX	TB_M2_R.png	_ttt2 4	780	24	73	160	68
260	MAST_ListItem_Text L2R/TextTextText _ttt2 SMX	TB_M2_L.png	_ttt2 3	500	24	73	260	68
261	MAST_ListItem_Text L2R/TextTextText _ttt2 SMX	TB_M2_L.png	_ttt2 1	40	24	73	440	68
262	MAST_ListItem_Text L2R/TextTextText _ttt	TB_M2_L.png	_ttt 3	740	24	73	200	68
263	MAST_ListItem_Text L2R/TextTextText _ttt	TB_M2_L.png	_ttt 2	545	24	73	175	68
264	MAST_ListItem_Text L2R/TextTextText _ttt	TB_M2_L.png	_ttt 1	40	24	73	485	68
265	MAST_ListItem_Text L2R/TextText _tt	TB_M2_R.png	_tt 2	590	24	73	350	68
266	MAST_ListItem_Text L2R/TextText _tt	TB_M2_L.png	_tt 1	40	24	73	530	68
267	MAST_ListItem_Text L2R/Text _t	TB_M2_L.png	_t	40	24	73	900	68
268	MAST_ListItem_Text L2R/TextCheckInfo _tci	TB_M2_L.png	_tci	40	24	73	690	68
269	MAST_ListItem_Text L2R/TextCheckInfo _tci	IconList_Checkbox_Checked_e.png	tci	786	29		52	52
270	MAST_ListItem_Text L2R/TextCheckInfo _tci	MAST_ButtonSWns_72	_tci	888	20		72	72
271	MAST_ListItem_Text L2R	SCAL_List_SW112_f.png		0	0		980	112
272	MAST_ListItem_Text L2R/no data no buttons no Divider	TB_M2_C.png	no data	40	24	73	900	68

Structure of a master view

Palletizing

▷ Memory reduction of nearly 25% compared to direct color specifications

▷ Color definition according to their function

▷ Simple overwriting color information during
operation achieving variants (e.g. day/night design)

▷ Optimizing and conversion of customer graphics

Two pallets realize elements with changeable colors