

PASSION FOR CUSTOMERS.

Optimizing Marketing Cloud Development

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Cross-Cloud Architect/Consultant 2020 Salesforce Marketing Champion $\underline{\mathbb{Y}}$

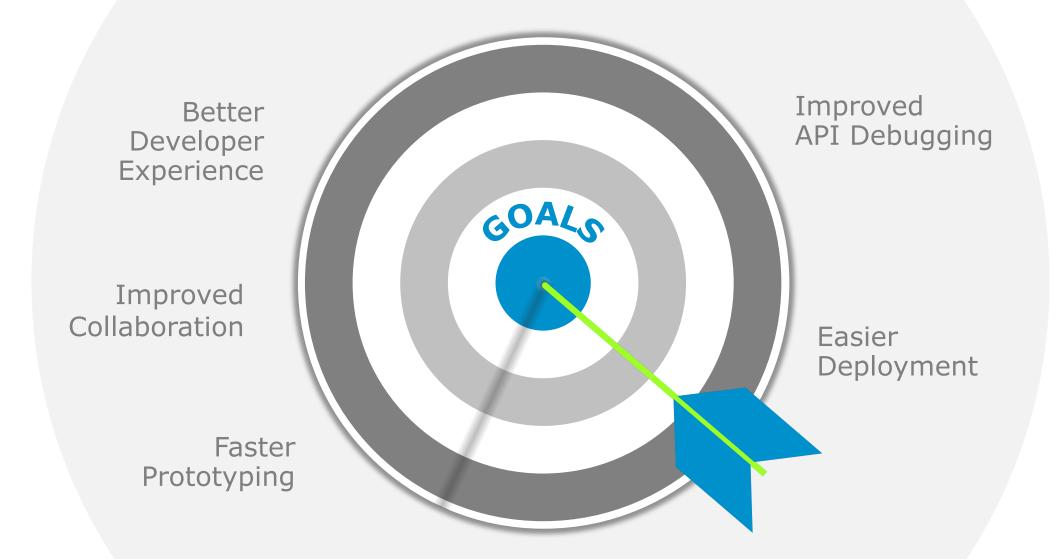
Blog: markus.codes LinkedIn: in/markus-slabina Twitter: @mslabina





Anna

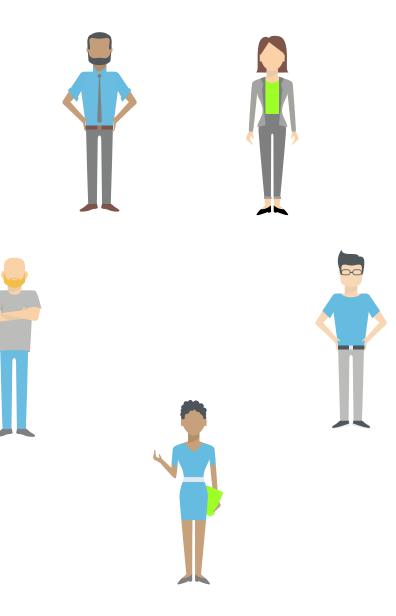
- Technical Marketer
- Architects the campaigns
- Acquired development skills over time
- Works on code together with her colleagues



Better Developer Experience

Anna's Team asked for a solution that includes

- an extensible code editor
- one tool for Marketing and Sales Cloud development
- syntax highlighting
- offline editing
- local data storage



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Better Developer Experience

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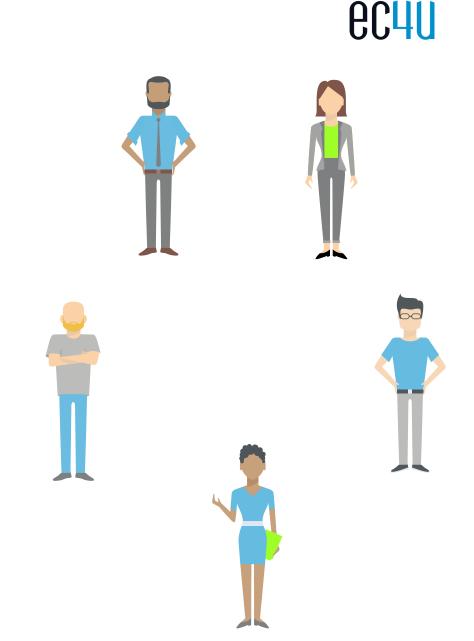
- Visual Studio Code
 - Free code editor
 - Many extensions available
- AMPscript plugin
 - Syntax highlighting
 - Auto completion
 - Documentation references
- Salesforce DX plugin
 - Official Salesforce DX plugin
 - Integrated DX tools, etc.

					Untitled-1							
Untitle	ed-1	•										
1 9	%% [
2		VAR	@FirstName, @LastName, @Gender, @	@FirstName, @LastName, @Gender, @PersonalizedSalutation								
3												
4		SET	<pre>@FirstName = AttributeValue('First</pre>	<pre>@FirstName = AttributeValue('FirstName')</pre>								
5		SET	ET @LastName = AttributeValue('LastName')									
6		SET	<pre>@Gender = AttributeValue('Gender')</pre>)								
7												
8		SET	<pre>@PersonalizedSalutation = Concat(IIIf(STRING, STRING, STRING),)</pre>									
9]%%			llf(1, 2, 3)								
				Returns the second parameter if the first parameter evaluparameter if the first parameter evaluates False.	uates True. Rei							
				======= PARAMETERS ============								
				1* [STRING] Any function or expression that returns a tru	e or false resu							
				2* [STRING] Value to return if the expression evaluates T	rue							
				3* [STRING] Value to return if the expression evaluates F	alse							
				======= EXAMPLES =============								
				%%=IIF(EMPTY(@VAR),'123',@VAR)=%%								

Improved Collaboration

Anna's Team wants to have a system that helps to

- Document changes
- Keep a version history
- Perform rollbacks
- Work on a single file simultaneously



Improved Collaboration



- Version Control
 - e.g. git or SVN
- Extension for Visual Studio Code
- Establish guidelines on usage
- Shared repository and local copy

- Cloud Service repository
 - Work from anywhere
 - Automatic backups

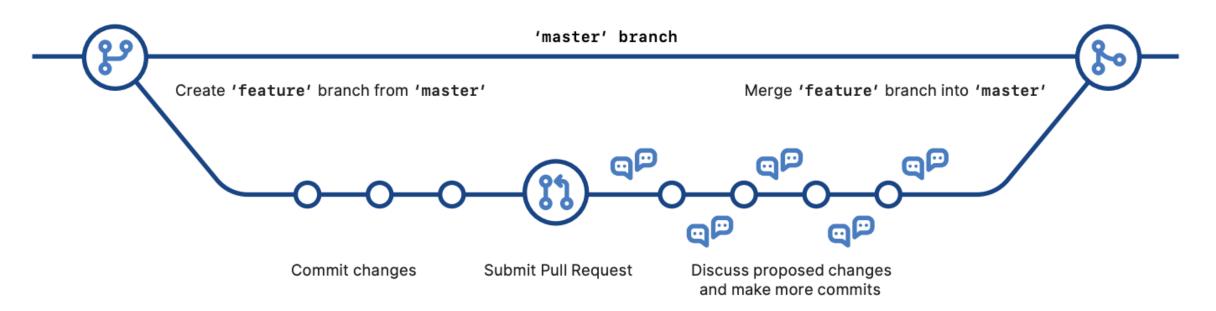
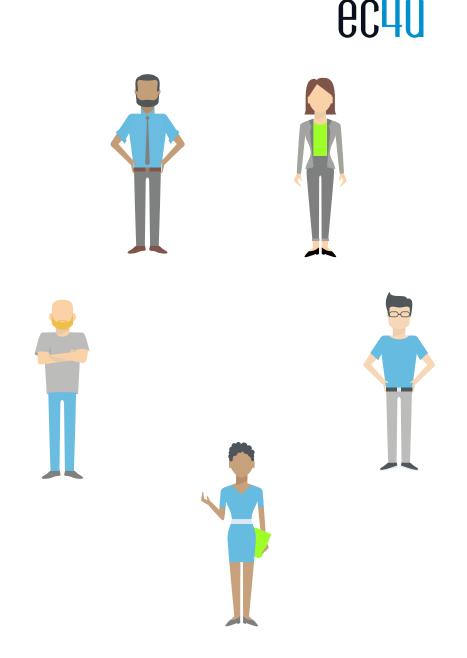


Image Source: https://training.github.com/downloads/github-git-cheat-sheet.pdf

Faster Prototyping

To verify a solution draft Anna wants to

- Quickly test small portions without having to set up a lot of dependencies
- Get error messages for SQL statements
- Test API-Endpoints without coding



Faster Prototyping

- Online tool for SQL prototyping:
 - sqlfiddle.com
- Quickly try out queries within SFMC:
 - QueryStudio (AppExchange)
- Online tool for JS prototyping:
 - jsfiddle.net
- API Development Client:
 - postman.com

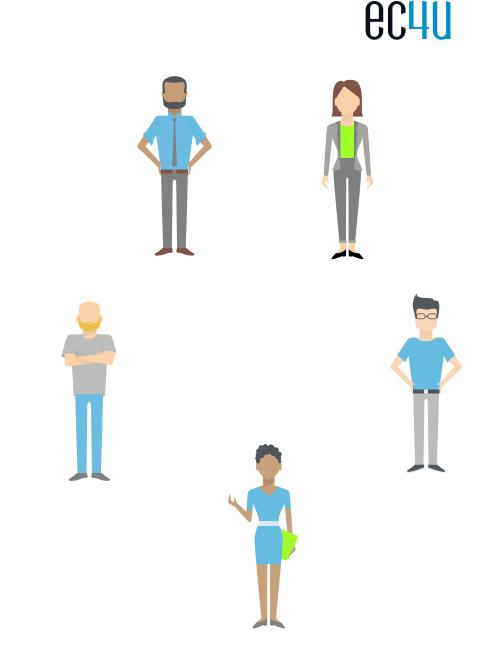
▶ Delete (Contact	Examples 0 👻
POST	{{hostEndpoint}}/contacts/v1/contacts/actions/delete?type=keys	Send
Params 🔵	Authorization Headers (10) Body Pre-request Script Tests Settings	
none	🔵 form-data 🔍 x-www-form-urlencoded 💿 raw 🔍 binary 🔍 GraphQL JSON 🔻	
1 {		
2	"values": [
3	"003XXXXXXXXXXXXXXXX	
4],	
5	"DeleteOperationType": "ContactAndAttributes"	
6 }		

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Improved API Debugging

Anna's Team wants to be able to

- See the transmitted payload data
- Verify the transmitted headers
- All without writing code



Improved API Debugging

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- requestbin.com
 - Creates an endpoint
 - Stores a history of calls

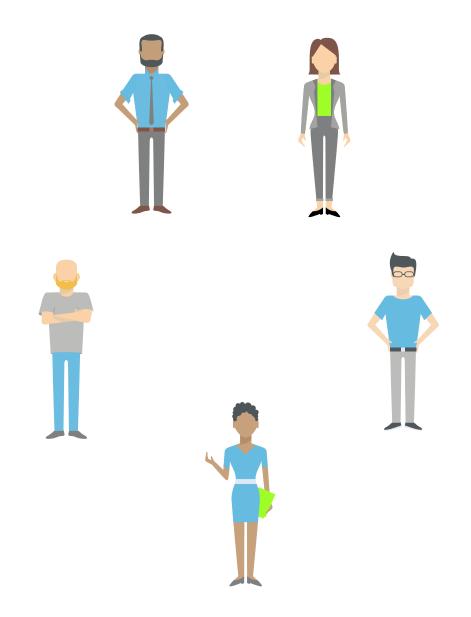
- Displays payload
- Displays Headers

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🗸 Unti	tled	public		Endp	boint https://enlpo26w1o619.x.pipedream.net/	তি Copy 🕂 New
LIVE	PAUSE	Q Type to search	HTTP REQUE	ST	1kkHnEl6ysrwtOpwe02L1Wzvz05	2020-11-24T17:10:33.522Z
Today			Details	post /		
6:10:33 pm	POST	/	Headers	▼ (8) headers		сору
6:10:08 pm	POST	/		host accept accept-encoding cache-control content-type postman-token content-length connection	enlpo26w1o619.x.piped */* gzip, deflate, br no-cache application/json b6e63 105 keep-alive	dream.net
			Body	{ "values": ["003XXX],	STRUCTURED XXXXXXXXXXXX ationType": "ContactAndAttribute:	copy s "

Easier Deployment

Anna's release manager wants to be able to

- Deploy journeys from one BU to another
- Deploy data extensions from one BU to another
- Share content assets
- Save backups of assets, journeys, etc.



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HCH!

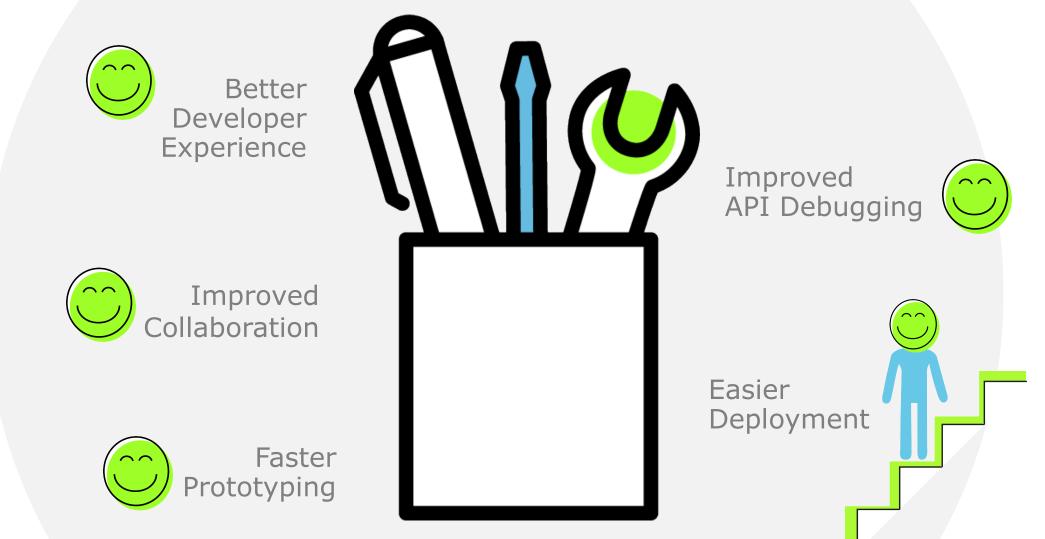
- Deployment Manager
 - Journey Flows (structure)
 - Data Extension Schemas
 - Automations (partial)
 - Attribute Groups (partial)
 - Export/Backup these assets
 - Further features expected soon

- Out-of-the Box functionality:
 - Content Sharing
 - Data Extension Sharing

Deployment Manager				Feedback	NTO - North America 👻 🔼 Joh
CREATE SNAPSHOT DEPLOY SNAPSHOT	SESSION HISTO	DRY			
Your Session History O Snapshot deployed at 11:23 AM	Deployr	ment Details			
	Deployed At 11:23 AM	Deployment Target MID: 10785356	Snapshot Name Global Master Template.json		
	Deployed Com	ponents			
	COMPONENT T	YPE.	NAME	KEY	STATUS
	O Journey (de	esign)	Trailfit Loyalty	74338d5f-c957-4d60-8ff0-390fececcd94	 Successfully deployed
	O Journey (de	esign)	Northern Trail Cyber Monday Promo	d961646a-2e4b-4aca-ab72-06d41c7c6d14	 Successfully deployed
	Journey (de	esign)	NTO - Thanksgiving Campaign	d7703eea-dcef-4a58-8610-806c347e2447	 Successfully deployed
	Journey (de	esign)	Northern Trail Holiday Giveaway	81c81445-d480-4c5f-b2a6-4047e75e51fc	 Successfully deployed
	Journey (de	esign)	Black Friday Blockbuster Sale	d0a0f1f3-968a-4fea-bacc-f48a096b1225	 Successfully deployed
	Journey (de	esign)	Halloween Burst Campaign	f2310a63-fab1-4160-a2cf-a12d6e6a8168	 Successfully deployed
	Journey (de	esign)	NTO - October Special	8becb619-ec63-4113-afd9-eea2e5249fee	 Successfully deployed
	O Journey (de	esign)	Abandoned Cart	8b2a2287-6045-4ce9-bc4b-8745f83ea556	 Successfully deployed
	Journey (de	esign)	Fall Seasonal Giveaway	9ef0d2d4-0f21-41fc-93da-95e88cb9411f	 Successfully deployed
	Journey (de	esign)	Fall Athletic Gear	c6edcf9b-214a-4358-809d-683d6ad0c0b1	 Successfully deployed
	Journey (de	esign)	Summer Ending Clearance Sale	a5b977e8-69dc-46b4-abd0-d018e382d619	 Successfully deployed
	Journey (de	esign)	Summer Mountaineering Campaign	e119d25e-35bc-4f92-96da-82cc0bbb65c2	 Successfully deployed

Image Source: https://appexchange.salesforce.com/appxListingDetail?listingId=a0N3A00000FvMviUAF

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Marketing Cloud Developer Tools – Chrome Extension

markus.codes/sfmc-chrome-devtools



- Chrome Extension I developed back in 2017
- Exposes hidden information
- Shows error messages
- Displays instance info

					Develop	per Tools - https://	m s	acttarget.com/clo	ud/		
Con	sole Elements	Sources	Network	Performance	Memory App	elication Security	Audits	Marketing Cloud	EditThisCookie	Adblock Plus	
Basic Inf	fo										
NAME:				-				-			
ID:				-							
CUSTOME	ERKEY:										
VERSIONS	S:			3							
Versions	1										
VERSION	STATUS	EXECUT MOD		CREATED DATE	ENTRY MODE	POPULATION		GOAL DESCRIPT	TION	GOAL LEADS TO EXIT?	MET GOAL (RELATIVE)
3	Published	Produc	tion	9.8.2017, 16:55:01	OnceAndDone		I want 5	% of the population	n to and a	1	
2	Unpublished	Produc	tion	24.7.2017, 17:30:42	OnceAndDone		I want 5	% of the population	n to annual	×	_
1	Unpublished	Produc	tion	29.5.2017,	OnceAndDone	1004	I want 5	% of the population	n to mining	1	

Goal Attainment per Activity (current version)

19:45:10

ID	KEY	MET GOAL (TOTAL)
	WAIT-1	
	WAIT-7	
	WAIT-6	

Data as JSON

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. . .

("totalMetGes =tivties";[("id" "metGos key":"WAIT-7"),("id": "metGos key":""),("metGos key:"),("metGos key:"

Summary & links to resources







markus.codes/optimizing-sfmc-dev

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Do you have some more questions? I'm happy to help you.





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Blog: markus.codes LinkedIn: in/markus-slabina Twitter: @mslabina Thank you for your attention.

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