

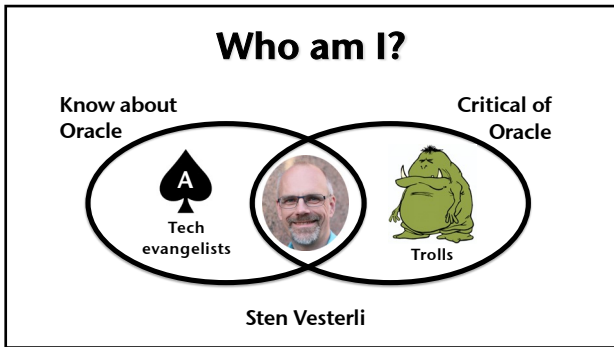


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### Overview

- ADF Business Components
- ADF Faces
- ADF Swing
- Application Express (APEX)
- Oracle Forms
- JavaScript Extension Toolkit (JET)
- Mobile Application Framework (MAF)
- Mobile Application Accelerator (MAX)
- Visual Builder Cloud Service (VBCS)

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Nov 2019	Nov 2018	Change	Programming Language	Rating	Change
1	1		Java	16.260%	-0.20%
2	2		C	18.037%	+1.64%
3	4	▲	Python	9.842%	+2.16%
4	3	▼	C++	9.605%	-2.88%
5	6	▲	C#	4.316%	+0.36%
6	5	▼	Visual Basic .NET	4.229%	-2.26%
7	7		JavaScript	1.929%	-0.72%
8	8		PHP	1.720%	-0.66%
9	9		SQL	1.690%	-0.15%
10	12	▲	Swift	1.652%	+0.20%

Position	Programming Language	Rating
21	Perl	0.821%
22	SAS	0.825%
23	PL/SQL	0.641%
24	Dart	0.615%
25	Rust	0.506%
26	Scratch	0.483%
27	Lisp	0.407%
28	COBOL	0.381%
29	Fortran	0.360%

TIOBE index  
Nov 2019  
TIOBE.com

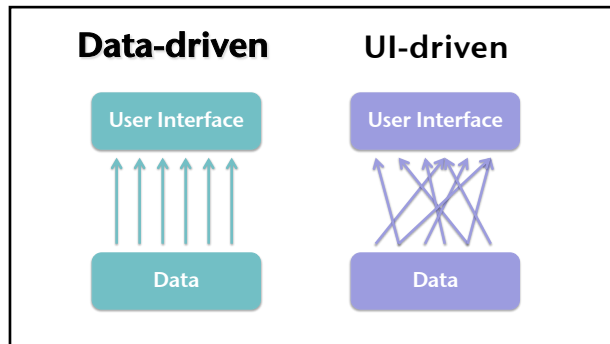
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There are 10 kinds of people in the world...  
 ...those who understand binary and those who don't

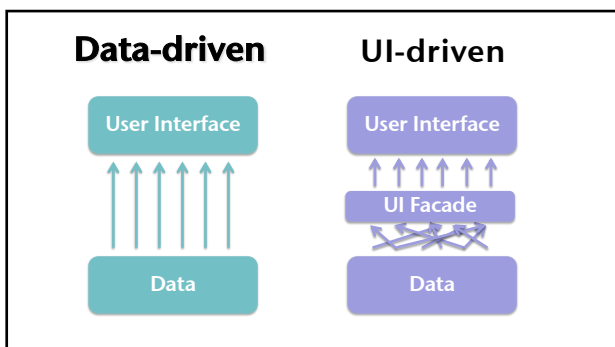
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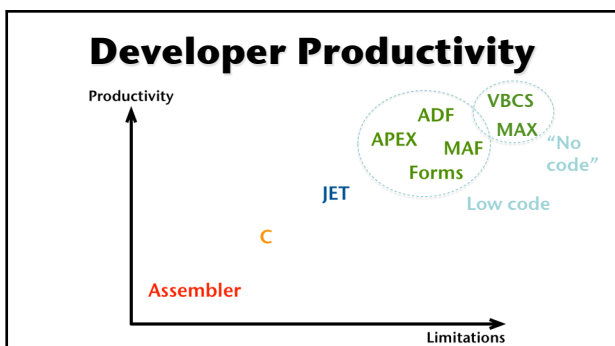
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- ### The Seven Ways of Building Oracle Applications
- Forms
  - Application Express (APEX)
  - Application Development Framework (ADF)
  - JavaScript Extension Toolkit (JET)
  - Mobile Application Framework (MAF)
  - Visual Builder Cloud Service (VBCS)
  - Mobile Application Accelerator (MAX)

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”The reports of my death are greatly exaggerated”

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October 24, 2017  
**Oracle Forms Statement of Direction**

 Hiroyuki Yoshino

1980年代にリリースされたOracle Formsは、広く使用されているエンタープライズ・アプリケーション開発ツールの1つです。Oracle Fusion Middlewareファミリの製品/テクノロジーであるOracle Formsは、Forms DeveloperとForms Servicesの2つのコンポーネントで構成されています。

2017年現在の最新リリースは、Oracle Forms 12c です。

11g、あるいはそれ以前の古いリリースを利用している場合、12cへのアップグレードを推奨しています。詳細は、製品マニュアルにあるアップグレード・ガイドを参照してください。

今後のリリース予定などについては、My Oracle Support (MOS) のDocument ID: 2009262.1 - Oracle Forms Statement of Direction の"Roadmap Ahead"セクションに記述がありますので参照してください。

また、Oracle Reports については、Oracle Technology Network (OTN) のOracle Reports 概要ページに、"今後の方向性 (Statement of Direction)"という資料を公開していますのでそちらをご覧ください。

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**Oracle Forms Statement of Direction (Doc ID 2009262.1)**

**"Oracle continues its commitment to Oracle Forms. New releases are being planned and new features and other improvements are currently being reviewed."**

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**... But:**

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**Forms Forever?**

Release	GA Date	Premier Support Ends	Extended Support Ends	Sustaining Support Ends
9AS R2 (9.0.2)	Apr 2002	Jul 2005	Not Available	Jul 2008
9AS R2 (9.0.3)	Oct 2002	Jul 2005	Not Available	Jul 2008
Application Server 10g (10.0.4)	Dec 2003	Dec 2008	Dec 2008	Dec 2009
Application Server 10gR2 (10.1.2.x) *	Jan - Oct 2005	Dec 2011	Not Available	Indefinite
Content Management SDK 10gR2 (10.0.4.2.x)	Jan - Oct 2005	Dec 2013	Not Available	Indefinite
Content Database 10gR2 (10.2.x)	Jan - Oct 2005	Dec 2013	Not Available	Indefinite
Fusion Middleware 10gR2 (10.1.3.x) **	See below	See below	See below	See below
Fusion Middleware 11gR1 (11.1.1.x) ***	See below	See below	See below	See below
Portal 11gR1, Forms 11gR1, Reports 11gR1 and Discoverer 11gR1 (11.1.1.x) ****	Jun 2009	Jan 2014	Jun 2017	Indefinite

**Oracle E-Business Suite Continuous Innovation Releases**

Product	Latest Release	GA Date	Premier Support Through At Least	Extended Support	Sustaining Support
12.2	12.2.8	Oct 2018	Dec 2020	Not Applicable	Indefinite

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**Oracle Reports**

- "Oracle Fusion Middleware's 12c R2 release (12.2.1.3.0) will be Oracle Reports' terminal release."
- "Subsequent releases of Oracle Reports, if any, will not bear any feature enhancements."

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Forms PM

Reports users

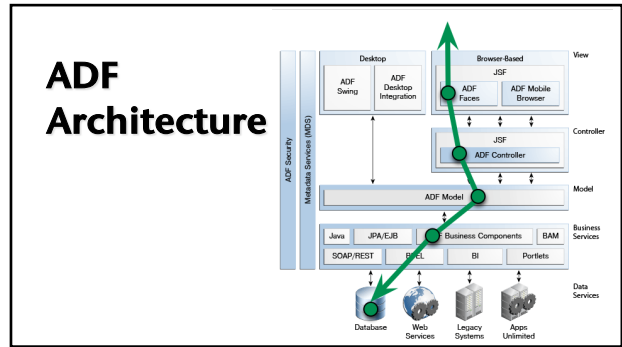
Reports users can use BI Publisher without additional license

Oracle bureaucracy

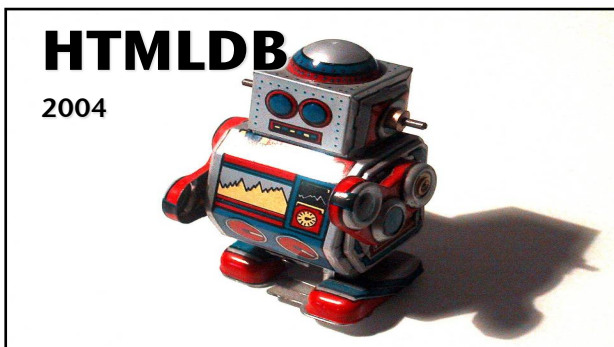
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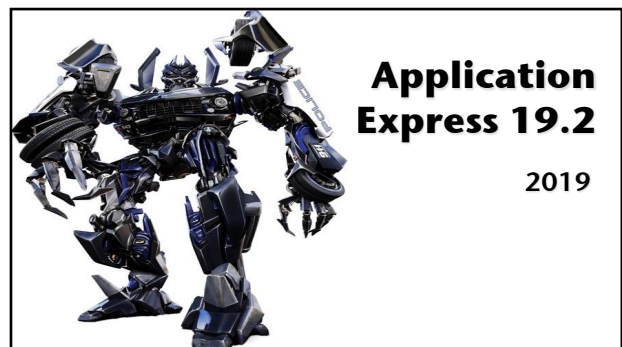
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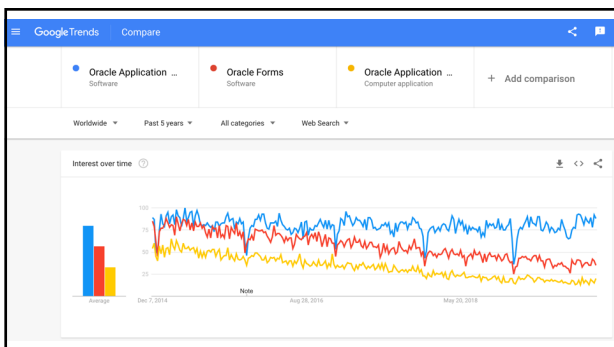
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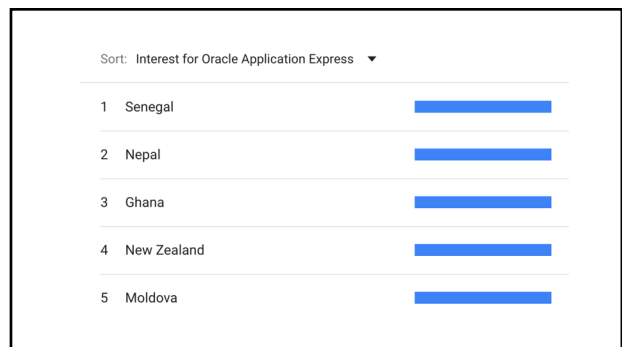
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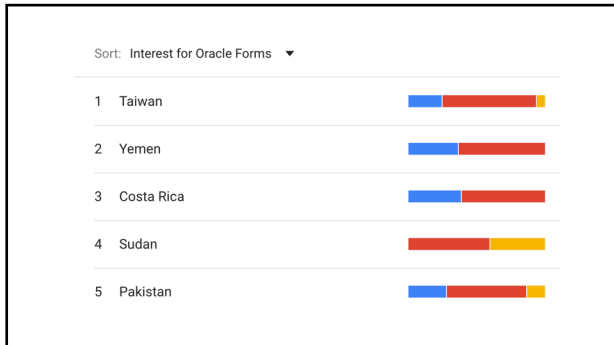


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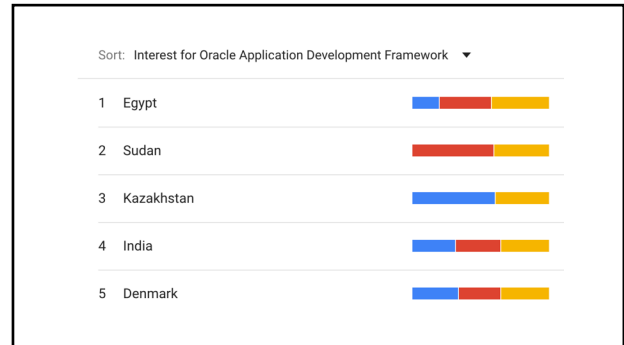


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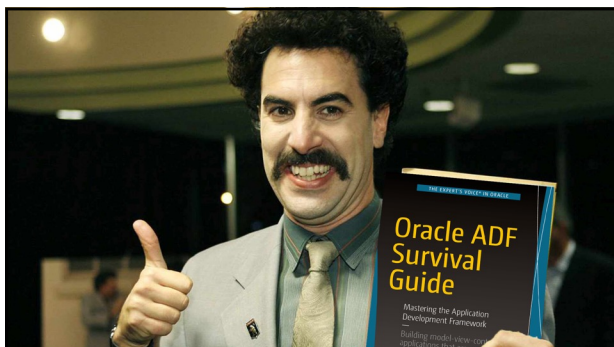




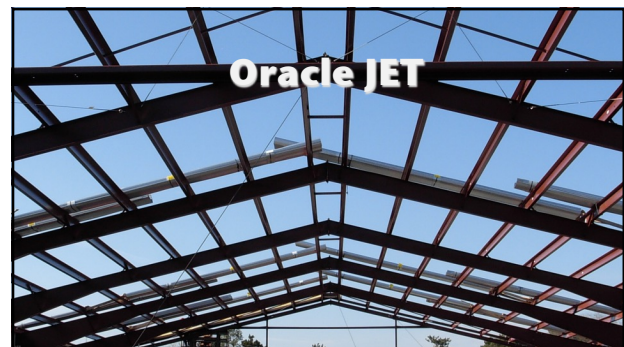
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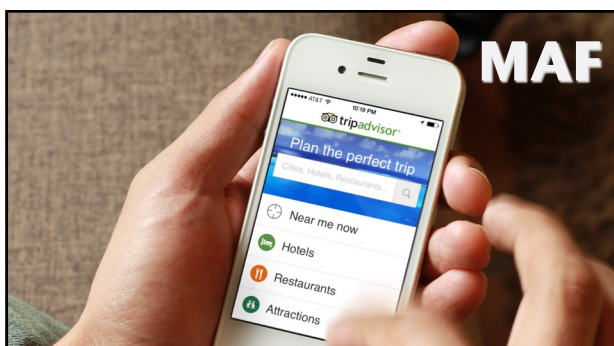
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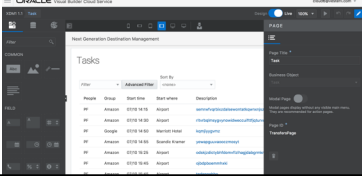
**The Citizen Developer**

- Getting a business user to build an application
- Tools with much hand-holding
  - Few or no options to write code
- It won't work
  - If they were interested in programming, they would've become programmers

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### “No-Code” Web (VBCS)

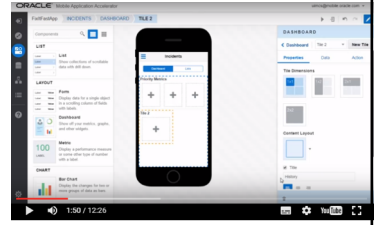
- Browser-based like APEX
- Can create business objects for your data
- Pre-built functionality
- Can use REST data services
- Can build mobile



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### “No-Code” Mobile (MAX)

- User-built mobile apps
- Browser-based
- Part of Mobile Hub (cloud)
- No device install (MAX app)



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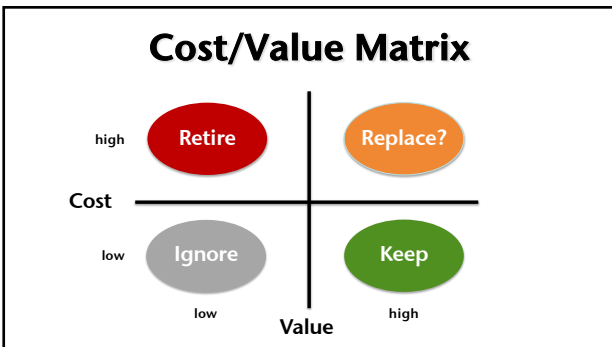
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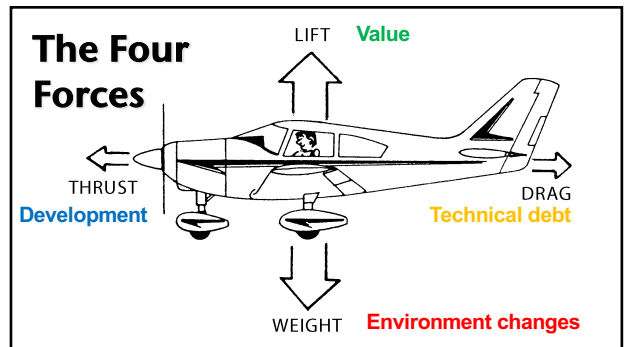
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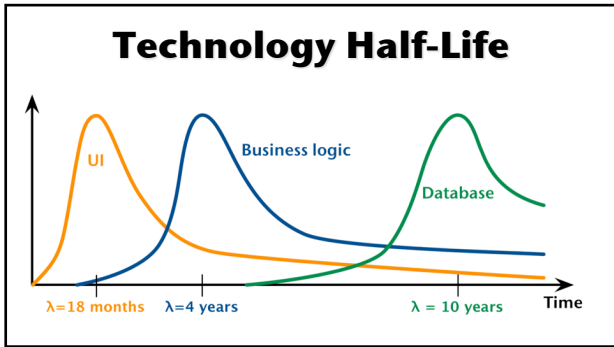
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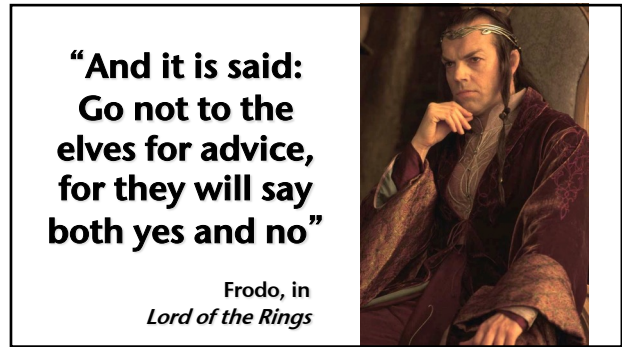
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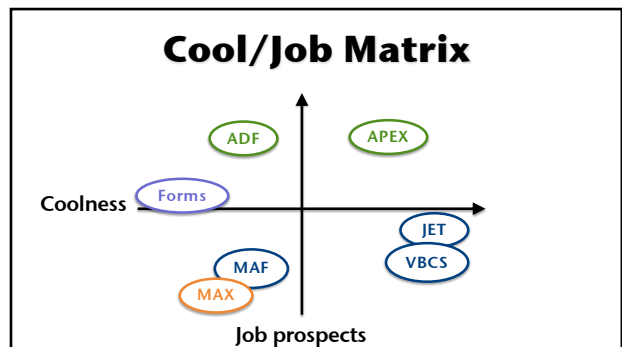


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### Manager View

- **Complex:**
  - Stay with Forms, ADF Faces
- **Medium:**
  - Stay with Forms, APEX, ADF Faces
- **Simple:**
  - APEX, VBCS

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### The 7 Ways Matrix

	Client/Server	Web	Mobile
PL/SQL	Forms ↘	APEX ↗	-
Java	ADF Swing ↘	ADF Faces ↘	MAF ↘
JavaScript	-	JET →	(JET) →
"no code"	-	VBCS ↗	MAX ↘

Oracle Watch (free) <https://vester.li/ora>  
 Oracle Watch (40% off) <https://vester.li/uk19>  
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